GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

ANALYSIS OF RATES FOR DELHI

(VOL. 1)

2013

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FOREWORD

Central Public Works Department Analysis of Rates for Delhi is a very comprehensive and useful document forming basis for the rates of various items. It is based on scientific assessment of Inputs of materials, labour and machinery in various items of work normally involved in civil construction projects.

It was first compiled in the year 1950, followed by subsequent publication or revision in the years 1955, 1962, 1972, 1977, 1985, 1997, 2007, 2012. Since publication of Analysis of Rates for Delhi 2012, prices of labour and materials have registered substantial increase. Besides the increased cost, there has been a spurt of new construction materials and introduction of Green Building Concept of construction. This has necessitated revision of existing Analysis of Rates for Delhi 2012 to include the above changes. Accordingly, this Analysis of Rates for Delhi 2013 has been prepared.

The analysis of existing items has been updated in conformity with updated items of works in DSR 2013. New analysis of rates for many newly introduced items in recently published DSR 2012 Supplement (Green Building and New Technology item) has been included in this Analysis of Rates for Delhi 2013.

New Sub Heads pertaining to Structural Glazing and Aluminium Composite panel had been included in DSR Supplement. This Sub head is also included in this Analysis of Rates for Delhi consisting of new analysis of rates for items in this Sub head.

I wish to place on record the technical input and the effective coordination on the part of Shri V.K. Rokade, ADG (TD) and the efforts put in by Shri Mathura Prasad, SE TAS (CSQ) and his team of officers in TAS unit in finalizing Analysis of Rates for Delhi 2013 in a record time. I am sure that C.P.W.D. Analysis of Rates for Delhi 2013 shall be very useful document to various Central Govt. Ministries, Departments & Public Sector Undertakings.

(V.K.Gupta)
DIRECTOR GENERAL, CPWD

New Delhi
June 2013

PREFACE

1. C.P.W.D. Analysis of Rates for Delhi 2013 is the revised edition of C.P.W.D. Analysis of Rates for Delhi 2012 after adding the analysis of DSR-2012 Supplement (Green Building and New Technology items).

2. Analysis of Rates for Delhi 2013 incorporates most of the analysis of items of Analysis of Rates for Delhi 2012 and supplement with updated correction slips, including analysis of existing items and also corresponding new items introduced in DSR 2013.

3. Analysis of Rates for Delhi, 2013 is published in two volumes i.e. volume I & II as under:

Volume Number	Sub-head No.	Content/ Sub-head
One	00	Basic Rates
	01	Carriage of materials
	02	Earth Work
	03	Mortars
	04	Concrete Work
	05	Reinforced Cement Concrete
	06	Brick Work
	07	Stone Work
	08	Marble & Granite Work
	09	Wood and PVC Work
	10	Steel Work
	11	Flooring
	12	Roofing
Two	13	Finishing
	14	Repairs to Buildings
	15	Dismantling and Demolishing
	16	Road Work
	17	Sanitary Installations
	18	Water Supply
	19	Drainage
	20	Pile work
	21	Aluminium Work
	22	Water Proofing
	23	Horticulture and Landscaping
	24	Rain Water Harvesting & Tube wells
	25	Conservation of Heritage buildings.
	26	Structural Glazing and Composite Aluminium Panel

4. Analysis of few existing items which are either obsolete or are not in use, have been deleted. Similarly, analysis of many items have been modified to correspond to items of DSR 2013. Several new analysis and sub items have been introduced in Analysis of Rates for Delhi 2013 after incorporating DSR-2012 Supplement.

5. Items related to Green building concepts, new technology items have also being added in the Analysis of Rates for Delhi 2013.

6. Analysis of Rates for Delhi, 2013 is based on the study of current market rates of materials at Delhi, collected during the period of Jan- March 2013. The basic rates of materials, incorporated in the analysis, pertain to materials conforming to BIS Standards/ CPWD Specifications/Materials of good quality generally available in the market. Labour rates are the minimum wages issued by the Government of Delhi w.e.f. 01.04.2013.

7. The nomenclatures of main items have been printed along with the analysis of first Sub item only to conserve the space and number of pages.

8. Sundries have been considered as 1.70 times based on Cost Index of Delhi as 100 over PAR 2007.

9. A lot of effort has gone into the preparation of this Analysis of Rates for Delhi - 2013, I convey my deep appreciation and sincere thanks to Shri Mathura Prasad, SE(TAS), Shri A.P. Mathur, SE(QA), Shri R.K. Saraswat, EE-I (TAS), Shri R.K.Vashisth, AE, Shri Chhabilal Singh, AE, Shri R.K.Goel, JE, Shri Abhishek Kumar, JE, Shri Ram Janam Chaudhary, JE, Shri Kashinath Ratha, JE, Shri Vijay Singh, Estimator, Shri Bahal Singh, Estimator and other officers and staff of TAS unit for sincere efforts made in the preparation of this document in such a short time. Various field units, who contributed field inputs, also deserve appreciation for their timely help.

10. I also express my sincere thanks to Shri V.J. Reddy EE(P), Hyderabad Central Circle-II, CPWD who has contributed & helped in finalizing the DAR in addition of his normal duties.

11. Due care has been taken to print the C.P.W.D. Analysis of Rates for Delhi as correctly as possible. It is, however possible that some errors might have crept in. In case any error or omission is noticed, it may be brought to the notice of the Superintending Engineer (TAS), CPWD, Room no. 418, A-wing, Nirman Bhawan, New Delhi.

(V.K.Rokade)
ADG (TD), CPWD,
Nirman Bhawan, New Delhi.

New Delhi
June, 2013

C O N T E N T S

Vol. 1

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Note: For remaining Sub Heads refer to Vol. 2

BASIC RATES

BASIC RATES

0.1 HIRE CHARGES OF PLANTS

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	830.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1500.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0006	Hire charges of Spraying machine including electric charges	day	250.00
0007	Hire charges of Coaltar Sprayer	day	300.00
0008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7700.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	150.00
0010	Hire charges of Derrick monkey rope	day	800.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0012	Vibrator (Needle type 40 mm)	day	325.00
0013	Machine for rubbing of floors	day	350.00
0014	Front end loader capacity 1.00 cum	day	5000.00
0016	Mastic Cooker	day	750.00
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0019	Hand Grinder for mirror polish	day	230.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	8000.00
0021	Pin vibrator	day	325.00
0022	Surface Vibrator	day	400.00
0023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	4000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	34000.00
0025	Hire and running charges of light crane	day	2200.00
0026	Hire and running charges of bentonite pump	day	4200.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35000.00
0028	Hire and running charges of crane 20 tonne capacity	day	9300.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0030	Generator 250 KVA	day	2200.00
0033	Paint applicator	day	750.00
0037	Mobile crane	day	6500.00

Code No.	Description	Unit	Rate ₹
0038	Tractor with ripper attachment	day	1350.00
0039	Tractor with trolley	day	1500.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1900.00
0041	Joint cutting machine with 2-3 blades	day	1000.00
0042	C.C .batch mix plant	day	10000.00
0043	Road sweeper	day	550.00
0045	Slip form paver with sensor	day	13000.00
0046	Water tanker 5000 litre	day	1000.00
0047	Concrete joint cutting machine	day	900.00
0048	Texturing machine	day	925.00
	Note :- Above hire - charges include cost of services of operating staff and supply of lubricating oil.		
0049	Dozer D-80-A 12	hour	3800.00
0050	Motor Grader 3.35 metre blade	hour	2450.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1300.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	800.00
0053	Tipper -5 Cum	tonne km	3.00
0054	Vibratory roller 8 to 10 tonne	hour	1500.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	460.00
0056	Tandem Road Roller	hour	1150.00
0057	Water Tanker 5 to 6 KL capacity	hour	150.00
0058	Air compressor	hour	325.00
0059	Wet Mix Plant 60 TPH	hour	1200.00
0060	Mechanical Broom Hydraulic	hour	360.00
0061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	800.00
0062	Hot mix Plant -120 TPH capacity	hour	23700.00
0063	Hot mix Plant 100 TPH Capacity	hour	17500.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2700.00
0065	Paver finisher Mechanical 100 TPH	hour	1000.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2500.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	2900.00
0069	Generator 250 KVA	hour	900.00
0070	Generator 100 KVA/125 KVA	hour	700.00
0071	Truck 5.5 cum/ 10 tonnes	tonne km	3.00
0075	Road sweeper (Mechamical Broom) @ 1250 sqm per hour	hour	360.00

Code No.	Description	Unit	Rate ₹
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	14000.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7500.00
0081	Pile Integrity testing equipment	day	3000.00
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	1500.00
	Note :- Above hire - charges (from item code 0049 to 0082) include cost of services of operating staff, supply of lubricating oil and diesel also.		

BASIC RATES

0.2 LABOUR

Note :- These rates are exclusive of contractor's profit and over heads and are inclusive of wages for weekly day of rest

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1 st class	day	393.00
0112	Carpenter 2nd class	day	361.00
0113	Chowkidar	day	297.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0119	Glazier	day	361.00
0122	Mason (for plaster of paris work) 1 st class	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0125	Mason (for plain stone work) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	393.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0132	Rock Excavator	day	297.00
0133	Rock Breaker	day	297.00
0134	Rock Hole Driller	day	297.00
0135	Stone Chiseller	day	328.00
0138	Sprayer (for bitumen, tar etc.)	day	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0141	White Washer	day	328.00

Code No.	Description	Unit	Rate ₹
0155*	Mason (average)	day	377.00
0156*	Carpenter (average)	day	377.00
0157	Operator (Pile/ Special machine)	day	350.00
0159	Skilled torch operator for laying tack	day	393.00
0160	Technician	day	700.00
0161	Helper (Technician)	day	300.00

Note :- * These rates are average of 1st class and 2nd class categories. This is for use in the analysis of rate only.

BASIC RATES

0.3 MATERIALS

Note :- These rates are exclusive of contractor's profit, over heads and carriage but include octroi, royalty, sales tax (VAT) etc.

Code No.	Description	Unit	Rate ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	40.00
0223	Fibre (high impact poly propelene reinforced) cement corrugated sheet 6 mm thick	sqm	250.00
0224	Fibre (high impact poly propelene reinforced) cement close fitting adjustable ridge	metre	210.00
0225	Fibre (high impact poly propelene reinforced) cement corrugate serrated adjustable ridge	metre	210.00
0226	Fibre (high impact poly propelene reinforced) cement plain wing adjustable ridge	metre	200.00
0227	Fibre (high impact poly propelene reinforced) cement unserrated adjustable ridge for hips	metre	300.00
0228	Fibre (high impact poly propelene reinforced) cement corrugated apron piece	metre	225.00
0229	Fibre (high impact poly propelene reinforced) cement eaves filler piece	each	175.00
0230	Fibre (high impact poly propelene reinforced) cement north light curves	metre	310.00
0231	Fibre (high impact poly propelene reinforced) cement ventilator curves	each	410.00
0232	Fibre (high impact poly propelene reinforced) cement barge boards 6 mm thick	metre	410.00
0233	Fibre (high impact poly propelene reinforced) cement ridge finial	pair	160.00
0234	Fibre (high impact poly propelene reinforced) cement special north light curves	each	550.00
0235	Fibre (high impact poly propelene reinforced) cement S type louvers	each	250.00
0236	Multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	200.00
0237	Multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	250.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	500.00
0286	Brick Aggregate (Single size) : 50 mm nominal size	cum	500.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	510.00
0291	Stone Aggregate (Single size) : 63 mm nominal size	cum	1000.00
0292	Stone Aggregate (Single size) : 50 mm nominal size	cum	1000.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1000.00
0294	Stone Aggregate (Single size) : 25 mm nominal size	cum	1050.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1100.00
0302	Safeda ballies 125 mm diameter	metre	42.00

Code No.	Description	Unit	Rate ₹
0303	Cowdung	cum	48.00
0304	Bajri	cum	1000.00
0305	Bamboo 25 mm dia 2.5 metre long	score	350.00
0308	Bhusa	quintal	400.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
0310	Bitumen emulsion	tonne	30000.00
0312	Bitumen grade PMB - 40	tonne	41400.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0316	Bitumen solution primer of approved quality	litre	45.00
0317	Premoulded joint filler 12 mm thick	sqm	350.00
0318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	60.00
0319	Bitumen felt as per IS 7193 Grade II	sqm	76.00
0322	Bitumen felt :Type 3 grade 1	sqm	60.00
0323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	12.00
0324	Coal Tar	litre	30.00
0325	Blasting powder	kilogram	35.00
0326	Blasting fuse (fuse wire)	each	15.00
0328	White face insulating board:12 mm thick	sqm	360.00
0332	Natural colour insulating board:12 mm thick	sqm	270.00
0336	Flame retardant face insulating board: 12 mm thick	sqm	315.00
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	350.00
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	325.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	260.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	170.00
0348	Extra for veneered particle board with Teak veneering both sides	sqm	500.00
0349	Curing compound	litre	50.00
0362	Brick bats	cum	500.00
0364	Wire brush	each	20.00
0365	Soft brush	each	18.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0369	Plastic sheath,1.25 mm thick for dowel bars	sqm	30.00
0370	Coal (steam)	quintal	400.00
0371	Sealant primer	kg	125.00
0373	Cramp Gun metal 25x6x300 mm	each	80.00
0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	500.00

Code No.	Description	Unit	Rate ₹
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	850.00
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	700.00
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	430.00
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	180.00
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	3100.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10Nos	2750.00
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	950.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2850.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2500.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2300.00
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1750.00
0389	Brass single acting spring hinges 150 mm	each	310.00
0390	Brass single acting spring hinges 125 mm	each	270.00
0391	Brass single acting spring hinges 100 mm	each	170.00
0392	Brass double acting spring hinges 150 mm	each	500.00
0393	Brass double acting spring hinges 125 mm	each	370.00
0394	Brass double acting spring hinges 100 mm	each	320.00
0400	Brass tower bolt (barrel type) 250x10 mm	each	230.00
0401	Brass tower bolt (barrel type) 200x10 mm	each	180.00
0402	Brass tower bolt (barrel type) 150x10 mm	each	145.00
0403	Brass tower bolt (barrel type) 100x10 mm	each	95.00
0404	Brass flush bolt 250 mm	each	150.00
0405	Brass flush bolt 150 mm	each	130.00
0406	Brass flush bolt 100 mm	each	90.00
0408	Brass handles 125 mm with plate 175x32 mm	each	140.00
0409	Brass handles 100 mm with plate 150x32 mm	each	130.00
0410	Brass handles 75 mm with plate 125x32 mm	each	100.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	165.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	160.00
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	370.00
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	320.00
0417	Brass 150 mm floor door stopper (0.357kg)	each	170.00
0418	Brass hard drawn hooks and eyes 300 mm	10 Nos	750.00
0419	Brass hard drawn hooks and eyes 250 mm	10 Nos	700.00
0420	Brass hard drawn hooks and eyes 200 mm	10 Nos	645.00
0421	Brass hard drawn hooks and eyes 150 mm	10 Nos	620.00
0422	Brass hard drawn hooks and eyes 100 mm	10 Nos	525.00
0423	Brass casement window fastener	each	50.00
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	135.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	110.00

Code No.	Description	Unit	Rate ₹
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	100.00
0427	Brass quadrant stays 300 mm	each	125.00
0428	Brass fanlight catch	10Nos	175.00
0429	Brass fanlight pivot	10 Nos	195.00
0430	Brass chain with hook for fan light catch	each	40.00
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	775.00
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	650.00
0433	Brass hasps and staples (safety type) 90 mm	10Nos	560.00
0438	Brass night latch	each	495.00
0442	Brass helical spring 150 mm	each	310.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	115.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	135.00
0446	Brass brackets (curtain rods) 20 mm	each	42.00
0447	Brass cupboard knob or wardrobe knob 50 mm	each	35.00
0449	Brass screws 50 mm	100 Nos	210.00
0450	Brass screws 40 mm	100 Nos	170.00
0451	Brass screws 30 mm	100 Nos	135.00
0452	Brass screws 25 mm	100 Nos	95.00
0453	Brass screws 20 mm	100 Nos	90.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm (200gms)	10 Nos	1000.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	850.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10Nos	700.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10Nos	460.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10Nos	200.00
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	175.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	150.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	130.00
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	540.00
0568	Chromium plated brass casement window fastener	each	95.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	150.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	130.00
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	115.00
0583	Chromium plated Brass Night latch	each	530.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	48.00
0585	Chromium plated Brass screws 50 mm	100 Nos	240.00
0586	Chromium plated Brass screws 40 mm	100Nos	200.00
0587	Chromium plated Brass screws 30 mm	100 Nos	155.00
0588	Chromium plated Brass screws 25 mm	100 Nos	120.00

Code No.	Description	Unit	Rate ₹
0589	Chromium plated Brass screws 20 mm	100 nos	100.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	190.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	260.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	350.00
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	140.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10Nos	85.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	60.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	50.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	40.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	65.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	50.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	40.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	35.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	7.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	140.00
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	90.00
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	65.00
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	55.00
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	340.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	315.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	235.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	200.00
0650	Oxidised mild steel single acting spring hinges 150 mm	each	115.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	110.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	90.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	115.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	110.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	90.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	45.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	95.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	90.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	48.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	40.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	45.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	40.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	30.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	25.00

Code No.	Description	Unit	Rate ₹
0668	Oxidised mild steel handles 125 mm	each	19.00
0669	Oxidised mild steel handles 100 mm	each	16.00
0670	Oxidised mild steel handles 75 mm	each	15.00
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	125.00
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	100.00
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	75.00
0682	Oxidised mild steel screws 50 mm	100 Nos	75.00
0683	Oxidised mild steel screws 40 mm	100 Nos	60.00
0684	Oxidised mild steel screws 30 mm	100 Nos	55.00
0685	Oxidised mild steel screws 25 mm	100 Nos	45.00
0686	Oxidised mild steel screws 20 mm	100 Nos	35.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	570.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	530.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	520.00
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	500.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	510.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	500.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	470.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	390.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	160.00
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	130.00
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	750.00
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	600.00
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	480.00
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	380.00
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	300.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	500.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	380.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	320.00
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	130.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1700.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1550.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1400.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1150.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1000.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	900.00
0752	Block board construction flush door lipping	sqm of door area	300.00

Code No.	Description	Unit	Rate ₹
0753	Square vision panel in Block board construction flush door	sqm of door area	115.00
0754	Circular vision panel in Block board construction flush door	sqm of door area	180.00
0755	Decorative type louvers in Block board construction flush door	sqm of door area	310.00
0757	Rebate cutting in block board construction flush door	sqm of door area	85.00
0759	Decorative plywood 4 mm	sqm	420.00
0761	Fuel wood	quintal	500.00
0763	Glue	kilogram	68.00
0765	Hessian cloth	sqm	25.00
0768	Cement Concrete Jali 50 mm thick	sqm	210.00
0769	Cement Concrete Jali 40 mm thick	sqm	180.00
0770	Cement Concrete Jali 25 mm thick	sqm	150.00
0771	Kerosene oil	litre	45.00
0773	Unslaked lime	quintal	300.00
0775	Dehradun white lime	quintal	480.00
0776	Satna lime	quintal	300.00
0777	Dry hydrated lime (factory made)	quintal	230.00
0784	Marble dust/ powder	cum	1000.00
0785	Marble chips up to 4 mm and down size White & black	quintal	200.00
0788	Marble chips large size above 4 mm White & black	quintal	200.00
0801	Silicon and acrylic emulsion	litre	200.00
0802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	38.00
0803	Acrylic emulsion , having VOC content less than 50 grams/ litre	litre	250.00
0804	Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	350.00
0805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 grams/ litre	litre	220.00
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	120.00
0807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 grams/ litre	litre	130.00
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	60.00
0809	Exterior primer	kilogram	40.00
0810	Moorum	cum	450.00
0811	Mud (dry)	cum	60.00
0815	Dry distemper	kilogram	36.00
0816	Oil bound washable distemper/ Acrylic distemper	kilogram	45.00
0818	Linseed oil (double boiled)	litre	110.00
0820	Cement primer	litre	90.00
0821	Distemper primer	litre	90.00
0823	Pink primer (for wood)	litre	90.00

Code No.	Description	Unit	Rate ₹
0824	White cement based putty	kg	24.00
0826	Aluminium paint	litre	130.00
0827	Acid proof paint (chocolate or black)	litre	150.00
0828	Anticorrosive bituminous paint (black)	litre	90.00
0829	Black Japan paint	litre	95.00
0830	Enamel paint	litre	160.00
0831	Floor enamel paint in all shades except green	litre	120.00
0833	Synthetic enamel paint in black or chocolate shade	litre	130.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	140.00
0835	Plastic emulsion paint	litre	180.00
0845	Roofing paint for iron sheets in red colour	litre	120.00
0850	White lead	kilogram	90.00
0851	Water proofing cement paint	kilogram	45.00
0855	Wax polish (ready made)	kilogram	200.00
0856	Ordinary varnish	litre	75.00
0857	Superior copal varnish	litre	125.00
0858	Superior spar varnish	litre	125.00
0859	Oil type wood preservative	litre	80.00
0863	Putty for wood work	kilogram	30.00
0865	Pig lead	kilogram	125.00
0868	Premixed super white gypsum plaster.	kg	7.00
0869	Plaster of Paris	kilogram	4.00
0870	Plug	each	10.00
0873	Copper pins 6 mm dia 7.5 cm long	each	10.00
0874	Black colour dark shade pigment	kilogram	55.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	75.00
0876	Green or blue medium shade pigment	kilogram	65.00
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	25.00
0966	Sand Cast iron plain shoe 150 mm dia	each	325.00
0967	Copper plate	kilogram	270.00
0969	Pulley 25 mm dia	each	35.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1250.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	600.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	280.00
0976	Ball bearing for rolling shutters	each	330.00
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	550.00
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	580.00
0979	Royalty for good earth	cum	30.00

Code No.	Description	Unit	Rate ₹
0980	Royalty for sludge	cum	90.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
0992	Galvanised steel plain sheets	quintal	5200.00
0994	Standard quality hard board sheet 3 mm thick	sqm	125.00
0996	Standard quality hard board sheet 4.5 mm thick	sqm	150.00
0999	Shellac	kilogram	210.00
1000	Spirit	litre	70.00
1001	Spun yarn	kilogram	40.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	4500.00
1005	Twisted steel/ deformed bars	quintal	4700.00
1006	Mild steel square bars	quintal	4500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4650.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1009	Flats exceeding 10 mm in thickness	quintal	4500.00
1010	Mild steel plates	quintal	4700.00
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	48.00
1013	Mild steel sheets for tanks	quintal	4900.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	290.00
1019	Mild steel hooks	each	35.00
1020	Mild steel rivets	quintal	5000.00
1021	Hard drawn steel wire fabric	sqm	430.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	25.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	110.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	12.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	30.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	5200.00
1030	Galvanised steel turn buckles	each	17.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	25.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	20.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1035	Bolts and nuts above 300 mm in length	quintal	5600.00
1036	Iron pintels including welded pin	each	40.00
1143	Steel beading	metre	25.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	100.00

Code No.	Description	Unit	Rate ₹
1149	Glass strip 4 mm thick 40 mm deep	metre	9.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	60.00
1154	Through and bond stone	100 Nos	1200.00
1157	Stone for masonry work	cum	700.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	450.00
1159	Stone dust	cum	1000.00
1160	Red sand stone block	10 cudm	65.00
1161	White sand stone block	10 cudm	70.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	300.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	160.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	180.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	130.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	290.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	210.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	172.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	225.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	925.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	950.00
1182	Surkhi	cum	700.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1187	First class teak wood in scantling	10 cudm	800.00
1188	First class teak wood in planks	10 cudm	850.00
1189	Second class teak wood in scantling	10 cudm	660.00
1190	Second class teak wood in planks	10 cudm	725.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	310.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1199	Sal wood in scantling	10 cudm	520.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	260.00
1202	Precast terrazzo tiles 22 mm thick(medium shade)	sqm	240.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	220.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	482.00
1207	G.I. Limpet washer	100 nos	35.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1210	G.I. plain washer thin	100 Nos	32.00
1211	G.I. plain washer for seam bolts	100Nos	30.00
1213	Water proofing materials	kilogram	32.00
1214	Welding by gas plant	cm	2.00

Code No.	Description	Unit	Rate ₹
1215	Welding by electric plant	cm	1.80
1216	Whiting	quintal	500.00
1219	Wire nails	kilogram	60.00
1220	Wire mesh (rabbit)	sqm	45.00
1221	20 mm dia holding down bolts	quintal	5800.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	130.00
1224	Hard drawn steel wire	quintal	5500.00
1225	Mild steel flat strap fitting	quintal	4450.00
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	325.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	285.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	250.00
1231	Extra for selected planks of second class teakwood	10 cudm	140.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	135.00
1235	Diesel oil	litre	48.63
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	9.00
1238	Extra for selected planks of first class teakwood	10 cudm	140.00
1239	18 mm thick Flamed finish granite stone slab	sqm	1695.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3330.00
1241	Commercial LPG in cylinder	kg	70.00
1242	Glass mossaic tiles (20 mm x 20 mm x 4 mm).	sqm	1050.00
1243	Tile fixing chemical adhesive	kg	34.00
1244	Cement Polymer Grout Compound	kg	34.00
1245	Acid for cleaning tiles	litre	16.00
1301	Bleaching powder	quintal	1750.00
1304	Surface box for stop cock	each	125.00
1305	Surface box for sluice valve	each	210.00
1307	Surface box for water meter	each	250.00
1309	C.I. bracket for wash basin and sinks	pair	70.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	40.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	35.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	20.00
1332	M.S.Holder bat clamp of approved design for75 mm S.C.I. pipe	each	18.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	28.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	30.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1339	Brass bib-cock 15 mm dia	each	210.00
1340	Brass bib-cock 20 mm dia	each	225.00
1342	Brass stop-cock 15 mm dia	each	210.00
1343	Brass stop-cock 20 mm dia	each	280.00

Code No.	Description	Unit	Rate ₹
1350	Mosquito proof coupling of approved design	each	30.00
1352	C.I. cover and frame 300x300 mm inside	each	300.00
1353	C.I.cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	225.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1500.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	1000.00
1356	500 mm dia cover with frame (medium duty)	each	4750.00
1357	500 mm dia cover without frame (medium duty)	each	2300.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	160.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	220.00
1363	Vitreous china foot rests 250x130x30 mm	pair	100.00
1364	C.I. grating 100x100 mm	each	15.00
1366	C.I. grating 150x150 mm	each	25.00
1367	C.I. grating 180x180 mm	each	30.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	18.00
1373	Rubber insertions for 80 mm dia pipe joints	each	15.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1375	Rubber insertions for 125 mm dia pipe joints	each	20.00
1376	Rubber insertions for 150 mm dia pipe joints	each	20.00
1377	Rubber insertions for 200 mm dia pipe joints	each	25.00
1378	Rubber insertions for 250 mm dia pipe joints	each	40.00
1379	Rubber insertions for 300 mm dia pipe joints	each	45.00
1380	Rubber insertions for 350 mm dia pipe joints	each	50.00
1381	Rubber insertions for 400 mm dia pipe joints	each	73.00
1382	Rubber insertions for 450 mm dia pipe joints	each	92.00
1383	Rubber insertions for 500 mm dia pipe joints	each	110.00
1384	Rubber insertions for 600 mm dia pipe joints	each	125.00
1392	Mirror of superior make glass 60x45 cm	each	310.00
1396	Vitreous china pedestal for wash basin	each	700.00
1397	Pig lead	kilogram	90.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3600.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3700.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5500.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5800.00
1472	Casing pipe 100 mm dia	metre	335.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	270.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	400.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	520.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	600.00

Code No.	Description	Unit	Rate ₹
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	175.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	250.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	300.00
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	390.00
1545	G.I. pipes 15 mm dia	metre	85.00
1546	G.I. pipes 20 mm dia	metre	110.00
1547	G.I. pipes 25 mm dia	metre	150.00
1548	G.I. pipes 32 mm dia	metre	180.00
1549	G.I. pipes 40 mm dia	metre	220.00
1550	G.I. pipes 50 mm dia	metre	275.00
1551	G.I. pipes 65 mm dia	metre	365.00
1552	G.I. pipes 80 mm dia	metre	460.00
1555	G.I. back (jam) nuts 25 mm dia	each	10.00
1559	G.I. back (jam) nuts 65 mm dia	each	22.00
1608	G.I. tees (equal) 25 mm	each	45.00
1612	G.I. tees (equal) 65 mm	each	280.00
1614	G.I. inlet connection	each	65.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	950.00
1617	S.C. I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1150.00
1618	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 150 mm dia	each	1750.00
1620	S.C.I. plain bend 75 mm dia	each	170.00
1621	S.C.I. plain bend 100 mm dia	each	350.00
1622	S.C.I. plain bend 150 mm dia	each	600.00
1624	S.C.I. bend with access door 75 mm dia	each	200.00
1625	S.C.I. bend with access door 100 mm dia	each	252.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	265.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	450.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	278.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	376.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	346.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	520.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	425.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	550.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	151.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	190.00
1641	G.I. Union 15 mm nominal bore	each	55.00
1642	G.I. Union 20 mm nominal bore	each	75.00
1643	G.I. Union 25 mm nominal bore	each	85.00
1644	G.I. Union 32 mm nominal bore	each	120.00

Code No.	Description	Unit	Rate ₹
1645	G.I. Union 40 mm nominal bore	each	185.00
1646	G.I. Union 50 mm nominal bore	each	220.00
1647	G.I. Union 65 mm nominal bore	each	430.00
1648	G.I. Union 80 mm nominal bore	each	510.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	4.50
1653	Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia	each	370.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	400.00
1659	Sand cast iron S&S plain double unequal junctions:100x100x 75x75 mm dia	each	550.00
1662	Sand cast iron S&S double unequal junctions: 100x100x 75x75 mm dia with access door	each	550.00
1666	Sand cast iron heel rest bend 75 mm dia	each	220.00
1667	Sand cast iron heel rest bend 100 mm dia	each	250.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	320.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	410.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	410.00
1673	S.C.I. double equal invert branch of required degree 100x100x 100x100 mm dia	each	550.00
1674	S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia	each	495.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x 75 mm dia	each	570.00
1682	S.C.I. door pieces 75 mm dia	each	275.00
1683	S.C.I. door pieces 100 mm dia	each	400.00
1685	S.C.I. collar 75 mm dia	each	113.00
1686	S.C.I. collar 100 mm dia	each	143.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	30.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	35.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	35.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	48.00
1693	S.C.I. hand pump	each	670.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	200.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	210.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	260.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	300.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	400.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	580.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	920.00

Code No.	Description	Unit	Rate ₹
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1050.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1170.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	1280.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1590.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1875.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1925.00
1714	R.C.C. collars NP2 class 100 mm dia	each	30.00
1715	R.C.C. collars NP2 class 150 mm dia	each	35.00
1716	R.C.C. collars NP2 class 250 mm dia	each	50.00
1717	R.C.C. collars NP2 class 300 mm dia	each	55.00
1718	R.C.C. collars NP2 class 450 mm dia	each	100.00
1719	R.C.C. collars NP2 class 500 mm dia	each	115.00
1720	R.C.C. collars NP2 class 600 mm dia	each	140.00
1721	R.C.C. collars NP2 class 700 mm dia	each	150.00
1723	R.C.C. collars NP2 class 800 mm dia	each	200.00
1724	R.C.C. collars NP2 class 900 mm dia	each	235.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	280.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	300.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	350.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1496.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1995.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3150.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3885.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5040.00
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1733.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2310.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4595.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5565.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	6510.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	13650.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	50.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	80.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	135.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	170.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	220.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	240.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1350.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	820.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	1525.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	330.00

Code No.	Description	Unit	Rate ₹
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	310.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	50.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	60.00
1881	Spun yarn	kilogram	50.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	600.00
1885	15 mm C.P. brass tap	each	210.00
1889	C.P. brass toilet paper holder of standard size	each	170.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	170.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	225.00
1895	C.P. brass trap 40 mm dia	each	150.00
1896	100 mm S.C.I. trap with vent heel	each	315.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	275.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	218.00
1900	S.W. gully trap P type 100x100 mm	each	90.00
1902	S.W. gully trap P type 150x100 mm	each	130.00
1904	S.W. gully trap P type 180x150 mm	each	225.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	760.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	210.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	305.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	330.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	350.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	410.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	480.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	620.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1080.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1620.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	330.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	450.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	560.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	820.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1490.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2120.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2410.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	2600.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3600.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	7500.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	10980.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	15500.00
1947	Vitreous china flat back wash basin 630x450 mm	each	725.00

Code No.	Description	Unit	Rate ₹
1949	Vitreous china angle back wash basin 600x480 mm	each	725.00
1950	Vitreous china angle back wash basin 400x400 mm	each	425.00
1951	C.P. brass waste 32 mm	each	80.00
1952	C.P. brass waste 40 mm	each	95.00
1953	Vitreous china Indian type W.C. pan size 580 mm	each	450.00
1954	Vitreous china orrisa type W.C. pan size 580 mm	each	780.00
1955	Vitreous china pedestal type water closet	each	700.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	12.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	12.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	15.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	16.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	18.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	28.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	32.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	38.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	1300.00
1970	Vitreous china foot rests 250x125x25 mm	pair	100.00
1980	Fly ash	cum	7.75
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	4800.00
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	5250.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	228.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	323.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00
2394	Coupler 16 mm dia	each	67.00
2395	Coupler 20 mm dia	each	88.00
2396	Coupler 25 mm dia	each	130.00
2397	Coupler 28 mm dia	each	192.00
2398	Coupler 32 mm dia	each	231.00
2399	Complete Roof Joint of 100 mm	metre	4500.00
2400	Complete Roof Joint of 150 mm	metre	4800.00
2401	Complete Roof Joint of 200 mm	metre	5000.00
2402	Epoxy adhesive	kg	150.00
2403	Floor Joint of 100 mm	metre	4500.00
2404	Floor Joint of 150 mm	metre	5000.00
2405	Floor Joint of 200 mm	metre	5400.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	330.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	700.00

Code No.	Description	Unit	Rate ₹
2409	Wall Joint of 100 mm	metre	3400.00
2410	Wall Joint of 150 mm	metre	3700.00
2411	Wall Joint of 200 mm	metre	4000.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	360.00
2413	12 mm commercial ply	sqm	580.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	700.00
2447	Hollock ballies 125 mm diameter	metre	35.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	70.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	75.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	80.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	100.00
2455	Brass hanging type door stopper 150 mm	each	65.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	590.00
2459	Anodised Aluminium hanging type door stopper	each	25.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2465	Anodised Aluminium Casement stay 250 mm	each	50.00
2466	Hollock wood in scantling	10 cudm	325.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	165.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	65.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	75.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	85.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	110.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1030.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	840.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	920.00
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	691.90
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	922.50
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	1198.15
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	641.25
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	860.65
2489	PVC edge bending tape 2.00 mm thick	metre	28.55
2500	Extra for selected planks of second class deodar wood	10 cudm	100.00

Code No.	Description	Unit	Rate ₹
2504	Kiln seasoning of timber	cum	730.00
2505	Hollock wood in planks	10 cudm	370.00
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 nos	250.00
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10nos	293.00
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 120 mm	10 nos	364.00
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 140 mm	10 Nos	450.00
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 160 mm	10 Nos	570.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4800.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	3500.00
2605	Structural sealant - 6 mm x 12 mm	metre	31.60
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	18.00
2607	Weather Sealant - Non Staining (600 ml)	each	459.15
2608	Weather Sealant - Normal (300 ml)	each	143.20
2609	MS Brackets/Aluminium Alloy Brackets	kg	100.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	601.25
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	160.00
2612	Anchor Fastner - M10	each	110.95
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	35.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	5.00
2615	Protective Tape	metre	25.00
2616	GI flashing - 1.2 mm Thick	kg	66.00
2617	6 mm thick High performance glass	sqm	1910.00
2618	6 mm thick clear heat strengthened glass	sqm	770.00
2619	6 mm thick clear heat strengthened glass	each	145.00
2620	ARMS GS HD -TOP HUNG -20"-TYPE P-COUPLE	pair	1570.80
2621	Connection Block	each	39.35
2622	Curtain wall striker	each	102.70
2623	Adjustable Fastening Pawl	each	38.25
2624	Corner drive	each	294.95
2625	Top wedge Block	each	136.55
2626	Glass wool Denisity 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	230.00
2627	SS Screws - # 8 x 19	each	10.00
2628	Weather Sealant - DC 789	cartridge	135.00
2629	Cement Board	sqm	250.00

Code No.	Description	Unit	Rate ₹
2630	Baker rod	metre	5.00
2631	4 mm thick ACP	sqm	1200.00
2632	Fire Stop	metre	561.95
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	57.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	220.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	1090.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	135.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	140.00
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	750.00
2712	Zinc Electroplated Pedestals - 300 mm	each	140.00
2713	Zinc Electroplated Pedestals - 450 mm	each	150.00
2714	Zinc Electroplated Tube Stinger	each	70.00
2715	Machine Screw for Fixing	each	2.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	360.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	800.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	800.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1150.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1150.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	380.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	400.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1100.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1100.00
2914	Solvent	kilogram	25.00
2916	Paving Asphalt VG 10 of approved quality	tonne	40000.00
3002	Polyvinyle chloride sheet 400 micron thick	sqm	35.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	35.00
3050	Galvanised steel corrugated sheets	quintal	5400.00
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	360.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	520.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	750.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1010.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1710.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1100.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	250.00
3229	Vitreous china flat back wash basin 550x400 mm	each	550.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2890.00
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	2910.00
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	3500.00
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	4300.00

Code No.	Description	Unit	Rate ₹
3320	C.I.sluice valve (with caps) class II : 200 mm dia	each	9210.00
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	14800.00
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	18500.00
3327	15 mm Battery Based Sensor Pillar Cock	each	5822.00
3617	C.P. Brass union 40mm dia	each	195.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:100 mm dia	each	1250.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia	each	1035.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	290.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	240.00
3628	S.C.I. S&S bend 100 mm dia	each	265.00
3629	S.C.I. S&S bend 75 mm dia	each	195.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	296.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	250.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	472.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	330.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	495.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	373.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	620.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	462.00
3654	S.C.I. S&S double equal junctions with access door 100x100x 100x100 mm	each	615.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm	each	480.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	570.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x 75 mm	each	640.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	800.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm	each	850.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	425.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	323.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x 100x100 mm dia	each	530.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	425.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia	each	545.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia	each	725.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	285.00

Code No.	Description	Unit	Rate ₹
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	390.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	300.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	383.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	358.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	465.00
3728	S.C.I. S&S door pieces 100 mm dia	each	400.00
3729	S.C.I. S&S door pieces 75 mm dia	each	295.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	350.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	300.00
3738	S.C.I. S&S, collars 100 mm	each	250.00
3739	S.C.I. S&S, collars 75 mm	each	170.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	218.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	363.00
3749	Vitreous china toilet paper holder of standard size	each	150.00
3860	560 mm dia cover with frame (Heavy duty)	each	9000.00
3861	560 mm dia cover without frame (Heavy duty)	each	5000.00
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	350.00
4002	Stainless steel bolts/square bar and plates	kg	130.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	220.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	240.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	270.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
4010	Mild steel tubes hot finished seamless type	kilogram	65.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	70.00
4012	Circular C.I. Box for ceiling fan	each	60.00
4013	Pulley 40 mm dia	each	30.00
4201	Aluminium primer	litre	100.00
4202	Red oxide Zinc chromate primer	litre	70.00
4203	Copper acetate	kilogram	300.00
4204	Hydrochloric acid	kilogram	35.00
4205	Copper chloride	kilogram	300.00
4206	Copper nitrate	kilogram	220.00
4207	Ammonium chloride	kilogram	20.00
5001	Mobil oil	litre	200.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1870.00
6007	Pink marble slab plain 18 mm thick	sqm	645.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	690.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	500.00
6501	Sand zone V (Jamuna)	cum	550.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	260.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	315.00

Code No.	Description	Unit	Rate ₹
7004	Vitreous china flat back wash basin 450x300 mm	each	425.00
7005	Vitreous china 10 litres low level cistern without fittings	each	925.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1600.00
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	4600.00
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	200.00
7010	Galvanised Steel celling section (size 80x26x0.50 mm)	metre	39.00
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	27.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	42.00
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	19.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	6.20
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	4.00
7016	Joint filler	kilogram	22.00
7017	Joint finisher	kilogram	24.00
7018	Joint tape roll	roll	145.00
7019	Dash fastener / Chemical fastner	each	15.00
7020	All drive screws (for gypsum board)	100 Nos	60.00
7021	Primer (for gypsum board)	litre	85.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	160.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	8150.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	110.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	927.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	250.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	237.00
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	271.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	335.00
7033	Nickel plated M.S. pipe 25 mm dia	metre	80.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	70.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	7.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	8.00
7040	Oxidised mild steel screws 35 mm	100 Nos	50.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	60.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	70.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	1080.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1150.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	320.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	350.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	22.00

Code No.	Description	Unit	Rate ₹
7050	PU Primer	sqm	41.00
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	421.00
7052	GI wire netting 3/4" x 24 G	sqm	27.00
7053	400 G polythene sheet	sqm	15.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	420.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	50.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	65.00
7060	Hydraulic door closer tubular type Aluminium section body	each	840.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	22.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	20.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	18.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	270.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	470.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	600.00
7072	Wall mounted water closet	each	4650.00
7073	Adjustable Vetrious China Cistern with fittings	each	2500.00
7074	White Vetrious China Waterless Urinal	each	15000.00
7075	Cistern with fittings for Waterless Urinal	each	3400.00
7076	White Vetrious Urinal	each	14000.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	570.00
7087	S.C.I. Tee 150 mm	each	600.00
7090	Expanded polystyrene type N- Normal	sqm	130.00
7091	Expanded polystyrene type - SE	sqm	155.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	5185.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	4950.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	4250.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	3000.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	3150.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	2845.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	2120.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1320.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1150.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1720.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	550.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	450.00

Code No.	Description	Unit	Rate ₹
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	300.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	350.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	700.00
7116	Hard board 6 mm thick	sqm	175.00
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	30.00
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	35.00
7119	Flexible (coil shaped) PVC waste pipe for sink and washbasin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	28.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	30.00
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	685.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	975.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1500.00
7128	S.W. intercepting trap 100 mm dia	each	190.00
7129	S.W. intercepting trap 150 mm dia	each	250.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	750.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	650.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	600.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	700.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame -M.D.-10	each	660.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1100.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1225.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1850.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2030.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1950.00

Code No.	Description	Unit	Rate ₹
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1650.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1630.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles &rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1450.00
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	710.00
7178	Chemical ASTMC-type I	kg	110.00
7181	C.I. pile shoe	kilogram	50.00
7182	M.S. clamps for pile shoe	kilogram	45.00
7183	Bentonite	tonne	3100.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	60.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	25.00
7188	uPVC pipes (working pressure 4 kg / cm^2) Single socketed pipe 75 mm dia	metre	67.00
7189	uPVC pipes (working pressure 4 kg / cm^2) Single socketed pipe 110 mm dia	metre	129.00
7190	uPVC pipes (working pressure 4 kg / cm^2) Rubber (Seal) Ring 75 mm dia	each	16.00
7191	uPVC pipes (working pressure 4 kg / cm^2) Rubber (Seal) Ring 110 mm dia	each	20.00
7192	uPVC coupler for UPVC drainage pipes 75 mm	each	34.00
7193	uPVC coupler for UPVC drainage pipes 110 mm	each	52.00
7194	uPVC pushfit coupler (single) 75 mm thick	each	50.00
7195	uPVC pushfit coupler (single) 110 mm thick	each	81.00
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	95.00
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	128.00
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	115.00
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	180.00
7208	UPVC bend 87.5° 75 mm bend	each	56.00
7209	UPVC bend 87.5° 110 mm bend	each	95.00
7212	UPVC plain shoe 75 mm bend	each	107.00
7213	UPVC plain shoe 110 mm bend	each	207.00
7214	UPVC pipe clip 75 mm bend	each	16.00
7215	UPVC pipe clip 110 mm bend	each	31.00
7231	Resin Bonded Glass wool 16 kg/ m^3: 50 mm thick	sqm	145.00
7232	Resin Bonded Glass wool 24 kg/ m^3: 50 mm thick	sqm	204.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	72.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	230.00

Code No.	Description	Unit	Rate ₹
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	370.00
7238	High Albedo paint	kg	246.00
7239	Epoxy paint	litre	250.00
7240	Fire retardant paint	litre	260.00
7241	Melamine polish	litre	300.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1750.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone-18 mm thick	sqm	1800.00
7246	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile	per test	33200.00
7247	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	per test	40300.00
7248	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne	per test	48500.00
7249	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity	per test	15000.00
7250	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part- IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	23000.00
7251	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part- IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	29500.00
7252	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity	per test	15000.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50 tonne capacity	per test	23600.00
7254	Hardening compound	litre	40.00
7255	Road marking paint (spirit based)	litre	120.00
7256	Superior quality road marking paint (water based)	litre	170.00
7257	C.P. Brass bibcock 15 mm	each	375.00
7258	C.P. Brass long nose bibcock 15 mm	each	657.00
7259	C.P. Brass long body bibcock 15 mm	each	501.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	513.00
7261	C.P. Brass angle valve 15 mm	each	417.00
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	12150.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	120.00

Code No.	Description	Unit	Rate ₹
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	120.00
7269	25 mm thick particle board	sqm	480.00
7270	30 mm thick prelaminated flush door shutter	sqm	850.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	40.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	940.00
7273	Resin Bonded Rockwool 48 kg/m3	sqm	211.00
7280	Waste plastic additive	tonne	40000.00
7281	Chemical ASTMC-type II	kg	170.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	2300.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7306	Aluminium T or L sections	kilogram	200.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	340.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	41000.00
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	11.00
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	14.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	15.00
7318	Plasticizer / super plasticizer	kilogram	38.00
7319	Wall form panel 1250x500 mm	each	1050.00
7320	Tie bolt 12 mm dia 100 mm length	each	50.00
7321	Tie bolt 12 mm dia 150 mm length	each	60.00
7322	Tie bolt 20 mm dia 150 mm length	each	75.00
7323	Tie bolt 20 mm dia 225 mm length	each	90.00
7324	Spring coil 12 mm	each	16.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1160.00
7328	Double clip (bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1040.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1220.00
7334	Prop 2 m (2-3.5 m)	each	830.00
7335	Binding wire	kilogram	53.00
7338	Gun metal cramp	kilogram	330.00
7339	Stainless steel cramp	kilogram	340.00

Code No.	Description	Unit	Rate ₹
7340	Stainless steel pin.	kg	190.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1900.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1200.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	422.00
7345	Prop 4 m	each	1170.00
7346	Double coupler	each	55.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	28.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	10.00
7349	12 mm M.S. 'U' beading	metre	15.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	115.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	640.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	490.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	530.00
7363	15 mm C.P. brass tap with elbow operation lever	each	700.00
7364	White glazed fire clay draining board 600x450x25 mm	each	550.00
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	240.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	60.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	75.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	465.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1050.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1250.00
7378	G.I. flush pipe and C.P. brass spreader including C.P.connecting pipe Range of four lipped urinals	each	1900.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS: 2556	each	1600.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	650.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	325.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	tonne	29800.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	570.00
7386	12 mm thick particle board ceiling tile	sqm	260.00
7387	Spigot for standard jointing	kilogram	45.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	50.00
7389	Anodising 15 microns on aluminium sections	kilogram	40.00
7390	Neoprene/EPDM rubber gasket	metre	25.00
7391	Anodising 25 microns on aluminium sections	kilogram	50.00
7392	Powder coating 50 microns on aluminium sections	kilogram	64.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	70.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1550.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	28.00

Code No.	Description	Unit	Rate ₹
7396	Double action hydraulic floor spring with brass cover plate	each	1700.00
7397	Base Jack	each	180.00
7398	Challies	each	800.00
7399	Cup locks	each	80.00
7400	15 mm PTMT bib cock	each	100.00
7401	15 mm PTMT bib cock with flange (fancy)	each	140.00
7402	15 mm PTMT bib-cock long body with flange	each	160.00
7403	15 mm dia PTMT stop cock(male thread)	each	100.00
7405	20 mm dia PTMT stop cock	each	130.00
7406	PTMT pillar cock	each	160.00
7407	PTMT push cock 15 mm dia	each	90.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	80.00
7409	PTMT grating 100 mm dia	each	31.00
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	225.00
7411	125 mm grating with waste hole	each	42.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	122.00
7415	Double acting air valve 50 mm	each	4000.00
7416	Double acting air valve 80 mm	each	5200.00
7417	Double acting air valve 100 mm	each	6800.00
7418	Water meter (including testing charges) 80 mm	each	2130.00
7419	Water meter (including testing charges) 100 mm	each	3300.00
7420	Water meter (including testing charges) 150 mm	each	5000.00
7421	Water meter (including testing charges) 200 mm	each	5400.00
7422	Dirt box strainer 80 mm	each	2810.00
7423	Dirt box strainer 100 mm	each	4580.00
7424	Dirt box strainer 150 mm	each	5810.00
7425	Dirt box strainer 200 mm	each	8250.00
7426	Cat's eye	each	180.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	415.00
7428	Water stops Dumb bell with central bulb	metre	390.00
7429	Kickers	metre	375.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	14.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	15.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	28.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	500.00
7442	Wheel 75 mm dia. 40 mm wide	each	65.00
7443	Aluminium single cleat of size 30x32x3 mm	each	14.00
7444	Aluminium grip strip of size 50x12x2 mm	each	11.00
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	830.00
7449	Aluminium U beading	kilogram	220.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	300.00

Code No.	Description	Unit	Rate ₹
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	650.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	750.00
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	30.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	500.00
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	740.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	850.00
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	930.00
7480	Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	780.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	42.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	54.00
7491	PTMT - Waste Coupling 31/32 mm	each	51.00
7492	PTMT - Waste Coupling 38/40 mm	each	64.00
7493	PTMT - Bottle Trap 31/32 mm	each	317.00
7494	PTMT - Bottle Trap 38/40 mm	each	345.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	134.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	195.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	780.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	1150.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	130.00
7501	PTMT Swiveling shower 15 mm	each	87.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	145.00
7504	PTMT Towel Ring 215x200x37 mm	each	116.00
7505	PTMT- Towel Rail (450 mm)	each	192.00
7506	PTMT - Towel Rail (600 mm)	each	226.00
7507	PTMT Shelf 450x124x36 mm	each	258.00
7508	PTMT - Urinal Spreader 15 mm	each	127.00

Code No.	Description	Unit	Rate ₹
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	120.00
7512	PTMT handle 125x34x24 mm	each	30.00
7513	PTMT handle 150x34x24 mm	each	34.00
7514	PTMT butt hinges 75x60x10 mm	each	42.00
7515	PTMT butt hinges 100x75x10 mm	each	56.00
7516	PTMT Tower bolt 152x42x18 mm	each	65.00
7517	PTMT Tower bolt 202x42x18 mm	each	80.00
7518	PTMT door catcher 72x42 mm	each	27.00
7552	Coir veneered board 4 mm thick	sqm	290.00
7553	Coir veneered board 6 mm thick	sqm	390.00
7555	Coir veneered board 12 mm thick	sqm	650.00
7556	Coir veneered board 18 mm thick	sqm	1030.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	800.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	1200.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	1650.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2300.00
7655	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia	metre	2860.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3510.00
7657	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia	metre	4500.00
7658	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia	metre	5200.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6580.00
7660	Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7930.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	11000.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11900.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	12000.00
7664	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 900 mm dia	metre	14500.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	16300.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	30.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	38.00
7669	Rubber Gaskets Conforming to 1.S 5382 of S.B.R quality 200 mm dia	each	66.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	78.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	115.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	132.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	240.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	280.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	305.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	380.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	575.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	690.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	760.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	1000.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1200.00

Code No.	Description	Unit	Rate ₹
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	13000.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	18000.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13700.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	19650.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	2180.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	3500.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	4110.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	3425.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	6960.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	8800.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	10610.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	12900.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	15100.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	20630.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	25600.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	900.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1120.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1350.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2300.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	3000.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	4050.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4850.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6400.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7750.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	9000.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	12595.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5450.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	8200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	9000.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9500.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1375.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2150.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3400.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	4100.00

Code No.	Description	Unit	Rate ₹
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5240.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6600.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8550.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10900.00
7720	Screwed double flanged centrifugally cast (spun) C./. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	13560.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	18800.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	775.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1120.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1550.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	2100.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	2900.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	3445.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	4015.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	5735.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	7480.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	9613.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	12100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	16070.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	17032.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	5400.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	4700.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5000.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	40900.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	40800.00
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887	tonne	30000.00
7743	M.S. pipe 150 mm dia casing pipe	metre	1060.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1300.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	500.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	750.00
7747	M.S. cap 150 mm dia	each	160.00
7748	M.S. cap 200 mm dia	each	200.00
7749	M.S bail plug 150 mm dia	each	200.00
7750	M.S bail plug 200 mm dia	each	220.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	450.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	700.00
7753	Boulder 50 mm to 200 mm	cum	350.00
7754	Gravel 5 mm to 10 mm	cum	700.00

Code No.	Description	Unit	Rate ₹
7755	Gravel 1.5 mm to 2 mm	cum	650.00
7756	Gravel 3 mm to 6 mm	cum	680.00
7757	M.S. pipe 100 mm dia casing pipe	metre	770.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	360.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	380.00
7760	M.S. cap 100 mm dia	each	130.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	800.00
7763	Water supply tanker of 5000 litre capacity	each	800.00
7764	M.S. socket 100 mm dia	each	180.00
7765	M.S. socket 150 mm dia	each	220.00
7766	M.S. socket 200 mm dia	each	280.00
7767	Stone cleaning chemical approved by ASI	litre	165.00
7768	Water repallent chemical approved by ASI	litre	1587.00
7769	Stone surface strengthening chemical approved by ASI	litre	1020.00
7770	Turpentine oil	litre	68.00
7771	Liquid Amonia 5%	litre	161.00
7772	Pea Gravel	cum	750.00
7773	Coloured inter locking C.C. paver Block	sqm	500.00
7774	Stone size 10x10x7.50cm	each	9.00
7775	Sodium pentachlorophenate	kilogram	630.00
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	300.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	365.00
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	375.00
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	515.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	545.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	3800.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1850.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	1650.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	435.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	468.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1120.00
7857	P.T.M.T. Grating square slit 150 mm	each	77.00
7858	P.T.M.T. Urinal cock 15 mm dia	each	120.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	145.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	158.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	32.00

Code No.	Description	Unit	Rate ₹
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	40.00
7864	P.T.M.T. extension nipple 15 mm	each	32.00
7865	P.T.M.T. extension nipple 20 mm	each	38.00
7866	P.T.M.T. extension nipple 25 mm	each	57.00
7893	Tactile tile	sqm	868.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	930.00
7896	Vitrified tile	sqm	510.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	4500.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4600.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	4600.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4500.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	5000.00
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2150.00
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2250.00
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2150.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2550.00
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	185.00
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	632.00
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	752.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	150.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	350.00
8012	Adhesive solvent cement	kg	165.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	490.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	85.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	60.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	99.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	167.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	207.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	245.00
8206	Bitumen primer for bitumen membrane	litre	82.00
8207	Geotextile 120 grams per sqm membrane	sqm	38.00
8210	Stainless steel screws 50 mm	100 Nos	250.00
8211	Stainless steel screws 40 mm	100 Nos	200.00
8212	Stainless steel screws 30 mm	100 Nos	150.00
8214	Stainless steel screws 20 mm	100 Nos	100.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	250.00

Code No.	Description	Unit	Rate ₹
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	230.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	150.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	130.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	330.00
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	240.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	195.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	330.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	170.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 nos	90.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	75.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	95.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	125.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	160.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	205.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	340.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	375.00
8501	Polymer modified cementation coating	kilogram	135.00
8502	Fibre glass cloth	sqm	44.00
8504	Multi surface paint	litre	275.00
8505	Acrylic exterior paint	litre	140.00
8506	Premium Acrylic exterior paint	litre	235.00
8507	Textured exterior paint	litre	200.00
8508	Primer for cement paint	litre	78.00
8509	Special Primer (C.W.)	litre	83.00
8510	Metal Primer (U.G.)	litre	120.00
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick	sqm	858.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	192.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	125.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	77.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	39.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	3.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	0.60
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	895.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	1000.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	809.00

Code No.	Description	Unit	Rate ₹
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	906.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	468.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	484.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	180.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	155.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	164.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	9.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	187.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	118.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	72.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	34.00
8615	Hanger rod 4 mm thick	each	8.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	3.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8620	Vitrified floor tile 50x50 cm	sqm	745.00
8621	Vitrified floor tile 60x60 cm	sqm	880.00
8622	Vitrified floor tile 80x80 cm	sqm	1085.00
8623	Vitrified floor tile 100x100 cm	sqm	1650.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	37.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	57.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	88.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	142.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	213.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	333.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	513.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75 mm Outer dia	metre	700.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	1066.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	1200.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160 mm Outer dia	metre	2500.00

Code No.	Description	Unit	Rate ₹
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	55.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	68.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	95.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	130.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	185.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	300.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	910.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	1300.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	1800.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	2150.00
8646	Silicon sealant	cartridge	307.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	29.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2290.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	172.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	215.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	275.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	490.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	850.00
8654	Masking tape	metre	2.50
8655	Autoclaved aerated cement (AAC) blocks	cum	2025.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	480.00
8657	Bonding plaster for Gypsum panel	kg	55.00
8659	Water proof ply 12 mm thick	sqm	650.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	40.00
8661	Aluminium casement window fastener (powder coated)	each	41.00
8662	Aluminium casement window fastener (polyester powder coated)	each	40.00
8663	Aluminium round shape handle (anodised AC 15)	each	49.00
8664	Aluminium round shape handle (powder coated)	each	54.00
8665	Aluminium round shape handle (polyester powder coated)	each	59.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	32.00
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	465.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	538.00
8669	Mangalore ridge tiles 20 mm thick	each	29.00
8670	Mangalore tiles 20 mm thick	each	10.50
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	435.00
8672	Precoated galvanised steel plain ridges	metre	440.00
8673	Precoated galvanised steel flashings/aprons	metre	440.00

Code No.	Description	Unit	Rate ₹
8674	Precoated galvanised steel gutter	metre	455.00
8675	Precoated galvanised steel north light curves	metre	455.00
8676	Precoated galvanised steel barge board	metre	445.00
8677	Precoated galvanised steel crimp curve	sqm	475.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	40.00
8682	Epoxy Grout	kg	510.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	460.00
8684	White sand stone gang saw cut 30 mm thick	sqm	480.00
8685	Delineator	each	310.00
8686	Precast C.C. Kerb stone M - 25	cum	4100.00
8687	Thermoplastic paint	kg	63.00
8688	Glass beads	kg	62.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	325.00
8690	High intensity retro - reflective sheet	sqm	1525.00
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	750.00
8692	RBT reinforced barbed wire	metre	9.00
8693	Turn buckle and strengthening bolt	each set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	60.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	258.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	285.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	340.00
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	90.00
8699	8 mm thick tapered edge calcium silicate board	sqm	368.00
8700	10 mm thick calcium silicate board	sqm	390.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	680.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	57.00
8703	Telescopic drawer channels 300 mm long	set	140.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	8.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	140.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2150.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	380.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	1850.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2650.00
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	290.00

Code No.	Description	Unit	Rate ₹
8711	28 mm factory made solid PVC panel door shutter i/c carriage	sqm	2250.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2108.00
8713	Fiber glass reinforced plastic chajja	sqm	3600.00
8714	Magnetic catcher triple strip vertical type	each	20.00
8715	Magnetic catcher double strip horizontal type	each	15.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	330.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	170.00
8719	2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	30.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	40.00
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	25.00
8722	Nylon sleeves & wooden screws (40 mm)	each	2.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	75.00
8724	12 mm thick marine plywood conforming to IS: 710	sqm	850.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	880.00
8726	1.5 mm thick decorative laminated sheet	sqm	490.00
8727	1.0 mm thick decorative laminated sheet	sqm	380.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2150.00
8731	High polymer modified quickset tile adhesive	per kg	17.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	350.00
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2100.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2600.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	830.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	1000.00
8739	Fire rated door shuttere made with 16 SWG G.I. sheet(60 minutes) without panel	sqm	5250.00
8740	Fire seal Putty	kg	700.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	21000.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m2) with ceramic tape of suitable thickness and fire resistant primer coating	metre	260.00
8743	Matrix Mineral Board	metre	65.00
8744	Panic Bar / latch (Double point)	each	5000.00

Code No.	Description	Unit	Rate ₹
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	330.00
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2350.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	350.00
8748	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish	sqm	2450.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	160.00
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	110.00
8752	Zinc alloy rollers for uPVC windows	each	50.00
8753	Zinc alloy rollers for uPVC door	each	85.00
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	100.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	230.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	290.00
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	370.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	420.00
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	530.00
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	165.00
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	150.00
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	185.00
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	50.00
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm)	metre	50.00
8765	uPVC extruded profile casement window Frame (67 mm x 62 mm)	metre	235.00
8766	uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm)(Style,rail and intermediate section)	metre	265.00
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm)	metre	85.00
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	245.00
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	230.00
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	50.00
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	290.00
8772	Aluminium Track on bottom rail for uPVC window	metre	25.00
8773	Wool Pine for uPVC window	metre	18.00
8774	Aluminium Grill	kg	250.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	50.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00

Code No.	Description	Unit	Rate ₹
8778	Toughened glass 12 mm thickness	sqm	1900.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	144.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	254.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	330.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	468.00
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	582.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	688.00
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	88.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	108.00
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	231.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	330.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	446.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	103.00
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	141.00
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	145.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	237.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	237.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	359.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	362.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	362.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	387.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	468.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	470.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	474.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	479.00
8805	Reducer for48.60 mm X 42.70 mm outer Dia SS pipe	each	522.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	113.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	184.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	236.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	349.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	490.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	609.00
8812	Elbow 90 0 for 15.88 mm outer dia SS pipe	each	86.00
8813	Elbow 90 0 for 22.22 mm outer dia SS pipe	each	153.00
8814	Elbow 90 0 for 28.58 mm outer dia SS pipe	each	211.00
8815	Elbow 90 0 for 34.00 mm outer dia SS pipe	each	429.00
8816	Elbow 90 0 for 42.70 mm outer dia SS pipe	each	657.00
8817	Elbow 90 0 for 48.60 mm outer dia SS pipe	each	808.00

Code No.	Description	Unit	Rate ₹
8818	Reducing Elbow 90 0 for 22.22 mm X 15.88 mm outer dia SS pipe	each	148.00
8819	Reducing Elbow 90 0 for 28.58 mm X 15.88 mm outer dia SS pipe	each	216.00
8820	Reducing Elbow 90 0 for 28.58 mm X 22.22 mm outer dia SS pipe	each	221.00
8821	Reducing Elbow 90 0 for 34.00 mm X 22.22 mm outer dia SS pipe	each	321.00
8822	Reducing Elbow 90 0 for 34.00 mm X 28.58 mm outer dia SS pipe	each	396.00
8823	Reducing Elbow 90 0 for 42.70 mm X 34.00 mm outer dia SS pipe	each	698.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	159.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	231.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	296.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	617.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	864.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1028.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS pipe	each	225.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	280.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	291.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	548.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	558.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	564.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	819.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	821.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	822.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	830.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	894.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	913.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	920.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	958.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	993.00
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	286.00
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8847	Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	368.00
8848	Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	414.00
8849	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	432.00
8850	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	483.00
8851	Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	602.00
8852	Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	651.00
8853	Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	777.00

Code No.	Description	Unit	Rate ₹
8854	Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	981.00
8855	Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	919.00
8856	Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	941.00
8857	Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1024.00
8858	Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1137.00
8859	Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1381.00
8860	Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1000.00
8861	Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1030.00
8862	Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1074.00
8863	Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1290.00
8864	Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1431.00
8865	Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1749.00
8866	Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	292.00
8867	Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8868	Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	356.00
8869	Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	445.00
8870	Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	455.00
8871	Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	498.00
8872	Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	668.00
8873	Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	679.00
8874	Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	766.00
8875	Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	910.00
8876	Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	894.00
8877	Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	910.00
8878	Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1022.00

Code No.	Description	Unit	Rate ₹
8879	Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1067.00
8880	Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1162.00
8881	Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1065.00
8882	Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1076.00
8883	Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1115.00
8884	Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1184.00
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1233.00
8886	Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1366.00
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	681.00
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	838.00
8898	Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	965.00
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	193.00
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	227.00
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	248.00
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	313.00
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	320.00

Code No.	Description	Unit	Rate ₹
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	461.00
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	726.00
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	840.00
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1138.00
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	234.00
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	276.00
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	295.00
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	424.00
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	629.00
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	875.00
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1176.00
8917	Female Threaded Elbow 90 0 for 15.88 mm outer dia X 15 mm nominal dia threaded	each	205.00
8918	Female Threaded Elbow 90 0 for 22.22 mm outer dia X 15 mm nominal dia threaded	each	275.00
8919	Female Threaded Elbow 90 0 for 22.22 mm outer dia X 20 mm nominal dia threaded	each	284.00
8920	Female Threaded Elbow 90 0 for 28.58 mm outer dia X 25 mm nominal dia threaded	each	421.00
8921	Female Threaded Elbow 90 0 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	733.00
8922	Female Threaded Elbow 90 0 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	920.00
8923	Female Threaded Elbow 90 0 for 42.70 mm outer dia X40 mm nominal dia threaded	each	995.00
8924	Female Threaded Elbow 90 0 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1103.00
8925	Female Threaded Elbow 90 0 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1286.00
8926	Male Threaded Elbow 90 0 for 15.88 mm outer dia X 15 mm nominal dia threaded	each	216.00
8927	Male Threaded Elbow 90 0 for 22.22 mm outer dia X 15 mm nominal dia threaded	each	273.00
8928	Male Threaded Elbow 90 0 for 22.22 mm outer dia X 20 mm nominal dia threaded	each	288.00

Code No.	Description	Unit	Rate ₹
8929	Male Threaded Elbow 90 0 for 28.58 mm outer dia X 25 mm nominal dia threaded	each	377.00
8930	MaleThreaded Elbow 90 0 for 34.00 mm outer dia X 25 mm nominal dia threaded	each	605.00
8931	Male Threaded Elbow 90 0 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	736.00
8932	Male Threaded Elbow 90 0 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	934.00
8933	Male Threaded Elbow 90 0 for 42.70 mm outer dia X40 mm nominal dia threaded	each	1060.00
8934	Male Threaded Elbow 90 0 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1190.00
8935	Male Threaded Elbow 90 0 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1449.00
8936	Cap for 15.88 mm outer dia pipe	each	45.00
8937	Cap for 22.22 mm outer dia pipe	each	64.00
8938	Cap for 28.58 mm outer dia pipe	each	84.00
8939	Cap for 34.00 mm outer dia pipe	each	173.00
8940	Cap for 42.70 mm outer dia pipe	each	253.00
8941	Cap for 48.60 mm outer dia pipe	each	330.00
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	214.00
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	271.00
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	407.00
8945	4 Point facade glass bracket	Nos	3318.00
8946	2 Point facade glass bracket	Nos	1659.00
8947	1 Point facade glass bracket	Nos	1404.00
8948	Flate head bolt	Nos	651.00
8949	400 fin plate at top	pair	5931.00
8953	Micro Silica	kg	32.00
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	4.50
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	72.00
9999	Sundries	L.S.	1.70

BASIC RATES

0.4 CARRIAGE CODES

(Carriage by Mechanical Transport including loading, Unloading and stacking)

Note: - These rates are exclusive of contractor's profit and overhead charges.

Code No.	Description	Unit	Rate ₹
2200	Steam coal	tonne	121.88
2201	Bricks	1000 Nos	284.39
2202	Stone aggregate below 40 mm nominal size	cum	106.64
2203	Coarse sand	cum	106.64
2204	Timber	cum	121.88
2205	Steel	tonne	94.80
2206	Stone aggregate 40 mm nominal size and above	cum	115.92
2207	Brick tiles	1000 Nos	170.63
2208	Lime	cum	106.64
2209	Cement	tonne	94.80
2211	Tar / Bitumen	tonne	106.64
2215	Soling stone & masonry stone	cum	125.47
2216	Stone blocks white & red sand stone & kota stone slab	tonne	94.80
2224	S.W. pipes 100 mm dia	100 metre	142.19
2225	S.W. pipes 150 mm dia	100 metre	284.39
2226	S.W. pipes 200 mm dia	100 metre	473.98
2228	S.W. pipes 250 mm dia	100 metre	812.54
2229	S.W. pipes 300 mm dia	100 metre	1015.68
2241	Good earth	cum	133.30
2242	Dump manure	cum	115.92
2260	Brick aggregate	cum	115.92
2261	Fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2262	Flyash	cum	106.64
2264	Rubbish	cum	106.64
2265	Moorum	cum	106.64
2266	Surkhi	cum	106.64
2267	Stone dust	cum	106.64
2268	Marble dust and/or marble chips	cum	106.64
2271	G.I. pipes below 100 mm dia	tonne	94.80
2272	Stainless Steel pipes below 100 mm dia	tonne	94.80
2273	A.C.sheet and accessories	tonne	94.80

Code No.	Description	Unit	Rate ₹
2275	R.C.C. pipes 100 mm dia	100 metre	233.10
2281	R.C.C. pipes 150 mm dia	100 metre	388.51
2287	R.C.C. pipes 250 mm dia	100 metre	898.07
2290	R.C.C. pipes 300 mm dia	100 metre	1110.03
2299	R.C.C. pipes 450 & 500 mm dia	100 metre	2590.06
2302	G.I.sheet and accessories	tonne	94.80
2303	R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3885.10
2308	Plaster of paris	tonne	94.80
2309	Cast Iron fittings	tonne	94.80
2311	Red bajri	cum	106.64
2314	Barbed wire	tonne	94.80
2317	Sludge	cum	115.92
2319	Spun iron S & S pipes 100 mm dia	100 metre	233.10
2320	Spun iron S & S pipes 125 mm dia	100 metre	311.37
2321	Spun iron S & S pipes 150 mm dia	100 metre	388.51
2322	Spun iron S & S pipes 200 mm dia	100 metre	631.97
2323	Spun iron S & S pipes 250 mm dia	100 metre	898.07
2324	Spun iron S & S pipes 300 mm. dia	100 metre	1110.03
2325	Spun iron S & S pipes 350 mm dia	100 metre	1554.03
2326	Spun iron S & S pipes 400 mm dia	100 metre	2119.14
2327	Spun iron S & S pipes 450 mm dia	100 metre	2590.06
2328	Spun iron S & S pipes 500 mm dia	100 metre	2590.06
2329	Spun iron S & S pipes 600mm dia	100 metre	3885.10
2330	C.I. pipes 500 mm dia	100 metre	2590.06
2331	R.C.C. pipes 900 mm dia	100 metre	5827.64
2332	R.C.C. pipes 1000 mm dia	100 metre	7770.19
2333	R. C. C. pipes 1100 mm dia	100 metre	7770.19
2334	R.C.C. pipes 1200 mm dia	100 metre	7770.19
2335	Jamuna sand	cum	106.64
2336	R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7339.87
2341	Pig lead	tonne	94.80
2342	Solvent / Diesel.	quintal	10.66
2343	Ductile Iron pipes (k7) 100 mm dia	100 metre	233.10
2344	Cast iron pipes 150 mm dia	100 metre	388.51
2345	Cast iron ptpes 200 mm dia	100 metre	631.97

Code No.	Description	Unit	Rate ₹
2346	Cast iron pipes 250 mm dia	100 metre	898.07
2347	Cast iron pipes 300 mm dia	100 metre	1110.03
2348	Cast iron pipes 350 mm dia	100 metre	1554.03
2349	Cast iron pipes 400 mm dia	100 metre	2119.14
2350	Cast iron pipes 450 mm dia	100 metre	2590.06
2351	Cast iron pipes 500 mm dia	100 metre	2590.06
2352	Cast iron pipes 600 mm dia	100 metre	3885.10
2353	Cast iron pipes 700 mm dia	100 metre	3885.10
2355	Cast iron pipes 800 mm dia	100 metre	3885.10
2356	Cast iron pipes 900 mm dia	100 metre	5827.64
2357	Cast iron pipes 1000 mm dia	100 metre	7770.19

SUB HEAD : 1.0

CARRIAGE OF MATERIALS

CARRIAGE OF MATERIALS

Data Sheet No 1 for Analysis of Rates

1.1 By Mechanical Transport including loading, unloading and stacking:

Code	Name	Unit	Rate ₹
0005	Hire charges of truck	Day	2000.00
0114	Beldar	Day	297.00
0115	Coolie	Day	297.00
1235	High Speed Diesel	Litre	48.63
5001	Mobile Oil	Litre	200.00

Lead in km	Ave-rage speed	Nos of Trips N=8/ (2L/S)+1	Nos of km Done in one Day (2NL+6)	Litres of Diesel consumed @ 5 km. per Litre	Cost of Diesel (1235) @ ₹ per Litre	Litres of Mobil oil consumed @ 140 km. per Litre	Cost of Mobil oil (5001) @ ₹ per Litre	Cost of 6 Beldars (0114) @ ₹ per Day	Hire charges of truck (0005) @ ₹ per Day	Total Cost= 6+8+9+10 in ₹	Cost per Trip = col. 11/ col. 3 in ₹	Increase of cost per km over previous km in ₹	Average cost per additional km after first 5,10 and 20 km in ₹
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 Km	16.00 Km	7.11	20.22	4.04	196.47	0.144	28.80	1782.00	2000.00	4007.27	563.61		
2 Km	17.00 Km	6.48	31.92	6.38	310.26	0.228	45.60	1782.00	2000.00	4137.86	638.56		
3 Km	17.50 Km	5.96	41.76	8.35	406.06	0.298	59.60	1782.00	2000.00	4247.66	712.69		
4 Km	18.00 Km	5.54	50.32	10.06	489.22	0.359	71.80	1782.00	2000.00	4343.02	783.94		
5 Km	18.50 Km	5.19	57.90	11.58	563.14	0.414	82.80	1782.00	2000.00	4427.94	853.17		
6 Km	19.00 Km	4.90	64.80	12.96	630.24	0.463	92.60	1782.00	2000.00	4504.84	919.36	66.19	
7 Km	19.50 Km	4.66	71.24	14.25	692.98	0.509	101.80	1782.00	2000.00	4576.78	982.14	62.79	
8 Km	20.00 Km	4.44	77.04	15.41	749.39	0.550	110.00	1782.00	2000.00	4641.39	1045.36	63.22	61.74
9 Km	20.50 Km	4.26	82.68	16.54	804.34	0.591	118.20	1782.00	2000.00	4704.54	1104.35	58.99	
10 Km	21.00 Km	4.10	88.00	17.60	855.89	0.629	125.80	1782.00	2000.00	4763.69	1161.88	57.52	
11 Km	21.50 Km	3.95	92.90	18.58	903.55	0.664	132.80	1782.00	2000.00	4818.35	1219.83	57.96	
12 Km	22.00 Km	3.83	97.92	19.58	952.18	0.699	139.80	1782.00	2000.00	4873.98	1272.58	52.74	
13 Km	22.50 Km	3.71	102.46	20.49	996.43	0.732	146.40	1782.00	2000.00	4924.83	1327.45	54.87	
14 Km	23.00 Km	3.61	107.08	21.42	1041.65	0.765	153.00	1782.00	2000.00	4976.65	1378.57	51.13	
15 Km	23.50 Km	3.51	111.30	22.26	1082.50	0.795	159.00	1782.00	2000.00	5023.50	1431.20	52.62	
16 Km	24.00 Km	3.43	115.76	23.15	1125.78	0.827	165.40	1782.00	2000.00	5073.18	1479.06	47.86	
17 Km	24.50 Km	3.35	119.90	23.98	1166.15	0.856	171.20	1782.00	2000.00	5119.35	1528.16	49.10	50.62
18 Km	25.00 Km	3.28	124.08	24.82	1207.00	0.886	177.20	1782.00	2000.00	5166.20	1575.06	46.90	
19 Km	25.50 Km	3.21	127.98	25.60	1244.93	0.914	182.80	1782.00	2000.00	5209.73	1622.97	47.91	
20 Km	26.00 Km	3.15	132.00	26.40	1283.83	0.943	188.60	1782.00	2000.00	5254.43	1668.07	45.11	

1		2		3	4	5	6	7	8	9	10	11	12	13	14
21	Km	26.50	Km	3.09	135.78	27.16	1320.79	0.970	194.00	1782.00	2000.00	5296.79	1714.17	46.10	
22	Km	27.00	Km	3.04	139.76	27.95	1359.21	0.998	199.60	1782.00	2000.00	5340.81	1756.84	42.67	
23	Km	27.50	Km	2.99	143.54	28.71	1396.17	1.025	205.00	1782.00	2000.00	5383.17	1800.39	43.55	
24	Km	28.00	Km	2.95	147.60	29.52	1435.56	1.054	210.80	1782.00	2000.00	5428.36	1840.12	39.73	
25	Km	28.50	Km	2.90	151.00	30.20	1468.63	1.079	215.80	1782.00	2000.00	5466.43	1884.97	44.85	
26	Km	29.00	Km	2.86	154.72	30.94	1504.61	1.105	221.00	1782.00	2000.00	5507.61	1925.74	40.76	41.11
27	Km	29.50	Km	2.83	158.82	31.76	1544.49	1.134	226.80	1782.00	2000.00	5553.29	1962.29	36.55	
28	Km	30.00	Km	2.79	162.24	32.45	1578.04	1.159	231.80	1782.00	2000.00	5591.84	2004.24	41.95	
29	Km	30.50	Km	2.76	166.08	33.22	1615.49	1.186	237.20	1782.00	2000.00	5634.69	2041.55	37.31	
30	Km	31.00	Km	2.73	169.80	33.96	1651.47	1.213	242.60	1782.00	2000.00	5676.07	2079.15	37.59	

Notes

1 Number of trips in working day of 8 hours N=8/{(2L/S)+1)}. Where L=Lead in Km., S=Speed in Km.per hour, 1 hour is allowed for loading / unloading.
2 Consumption of diesel taken at 5 Km. per litre.
3 Consumption of mobile oil taken at 140 Km. per litre.
4 In column 4 of 'km done' an allowance of 6.0 km has been made for movement of truck from parking place to duty & back.
5 (i) Cost of diesel @ (1235) per litre
(ii) Cost of mobile oil @(5001) per litre
(iii) Hire charges of truck @ (0005) for a day of 8 hours.

1.0 CARRIAGE OF MATERIALS

1.1 By Mechanical Transport including loading,unloading and stacking

S.No	Material	capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per Trip per unit 1km 2km 3km 4km 5km — Cost per Trip as per Col. 12 of Data sheet / Net Qty Payable					Beyond 5 km upto 10 km per km	Beyond 10 km upto 20 km per km	Beyond 20 km per addl. km	Remarks
											As per Col. 14 of Data Sheet A / Net Qty Payable	B / Net Qty Payable	C / Net Qty Payable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1.1	Lime, moorum, building rubbish	8	8	cum	15%	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	
1.1.2	Earth	8	6.4	cum	15%	101.27	114.74	128.06	140.86	153.30	11.09	9.10	7.39	
1.1.3	Manure or sludge	8	7.36	cum	15%	88.06	99.77	111.36	122.49	133.31	9.65	7.91	6.42	
1.1.4	Excavated rock	8	4	cum	15%	162.04	183.59	204.90	225.38	245.29	17.75	14.55	11.82	
1.1.5	Sand, stone aggregate below 40 mm nominal size	8	8	cum	15%	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	
1.1.6	Stone aggregate 40 mm nominal size and above	8	7.36	cum	15%	88.06	99.77	111.36	122.49	133.31	9.65	7.91	6.42	
1.1.7	Soling stone	8	6.8	cum	15%	95.32	107.99	120.53	132.58	144.29	10.44	8.56	6.95	
1.1.8	Bricks	3000	3000	1000 Nos	15%	216.05	244.78	273.20	300.51	327.05	23.67	19.40	15.76	
1.1.9	Brick Tiles	5000	5000	1000 Nos	15%	129.63	146.87	163.92	180.31	196.23	14.20	11.64	9.45	
1.1.10	Cement, stone blocks, G.I.. C.I., A.C., & C.C.pipes below 100 mm dia and other heavy materials	9	9	tonne	15%	72.02	81.59	91.07	100.17	109.02	7.89	6.47	5.25	
1.1.11	Steel	9	9	tonne	15%	72.02	81.59	91.07	100.17	109.02	7.89	6.47	5.25	
1.1.12	Timber	7	7	cum	15%	92.59	104.91	117.09	128.79	140.16	10.14	8.32	6.75	
1.1.13	Tar Bitumen	8	8	tonne	15%	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	
1.1.14	Solvent	80	80	qtl	15%	8.10	9.18	10.24	11.27	12.26	0.89	0.73	0.59	
1.1.15	Steam coal	7	7	tonne	15%	92.59	104.91	117.09	128.79	140.16	10.14	8.32	6.75	
1.1.16	S.W. pipe													
1.1.16.1	100 mm dia	600	600	100 m	15%	108.03	122.39	136.60	150.25	163.52	11.83	9.70	7.88	
1.1.16.2	150 mm dia	300	300	100 m	15%	216.05	244.78	273.20	300.51	327.05	23.67	19.40	15.76	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1.16.3	200 mm dia	180	180	100 m	15%	360.08	407.97	455.33	500.85	545.08	39.45	32.34	26.26	
1.1.16.5	250 mm dia	105	105	100 m	15%	617.29	699.37	780.57	858.60	934.42	67.62	55.44	45.02	
1.1.16.6	300 mm dia	84	84	100 m	15%	771.61	874.22	975.71	1073.25	1168.03	84.53	69.30	56.28	
1.1.16.7	350 mm dia	60	60	100 m	15%	1080.25	1223.90	1366.00	1502.55	1635.24	118.34	97.02	78.79	
1.1.16.8	400 mm dia	42	42	100 m	15%	1543.22	1748.43	1951.43	2146.50	2336.05	169.05	138.60	112.56	
1.1.16.9	450 mm dia	33	33	100 m	15%	1964.09	2225.28	2483.63	2731.91	2973.16	215.16	176.40	143.25	
1.1.16.10	500 mm dia	30	30	100 m	15%	2160.50	2447.81	2732.00	3005.10	3270.47	236.68	194.04	157.58	
1.1.16.11	600 mm dia	24	24	100 m	15%	2700.63	3059.76	3415.00	3756.37	4088.09	295.85	242.55	196.97	
1.1.17	R.C.C. pipe, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforces cement pipes													
1.1.17.1	100 mm dia	366	366	100 m	15%	177.09	200.64	223.93	246.32	268.07	19.40	15.91	12.92	
1.1.17.2	125 mm dia	274	274	100 m	15%	236.55	268.01	299.12	329.03	358.08	25.91	21.25	17.25	
1.1.17.3	150 mm dia	219.6	219.6	100 m	15%	295.15	334.40	373.22	410.53	446.79	32.33	26.51	21.53	
1.1.17.4	200 mm dia	135	135	100 m	15%	480.11	543.96	607.11	667.80	726.77	52.59	43.12	35.02	
1.1.17.5	250 mm dia	95	95	100 m	15%	682.26	772.99	862.74	948.98	1032.78	74.74	61.28	49.76	
1.1.17.6	300 mm dia	76.86	76.86	100 m	15%	843.29	955.43	1066.35	1172.95	1276.53	92.38	75.74	61.51	
1.1.17.7	350 mm dia	54.9	54.9	100 m	15%	1180.60	1337.60	1492.89	1642.13	1787.14	129.33	106.03	86.11	
1.1.17.8	400 mm dia	40.26	40.26	100 m	15%	1609.91	1824.00	2035.76	2239.27	2437.01	176.36	144.59	117.42	
1.1.17.9	450 mm & 500 mm dia	32.94	32.94	100 m	15%	1967.67	2229.33	2488.16	2736.88	2978.57	215.55	176.72	143.51	
1.1.17.10	600, 700, 750 & 800 mm dia	21.96	21.96	100 m	15%	2951.51	3344.00	3732.24	4105.32	4467.86	323.33	265.09	215.27	
1.1.17.11	900 mm dia	14.64	14.64	100 m	15%	4427.26	5016.00	5598.35	6157.98	6701.79	484.99	397.63	322.91	
1.1.17.12	1000, 1100 & 1200 mm dia	10.98	10.98	100 m	15%	5903.02	6688.00	7464.47	8210.65	8935.72	646.66	530.17	430.54	

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate ₹
0114	Beldar	Day	297.00
0115	Coolie	Day	297.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114/0115 Beldars (Male/Female) 7.67 Nos. @ ₹ 297.00 = ₹ 2277.99 (X)

1	Lime, moorum, earth, building rubbish etc.	35 cum
2	Sand, ballast and boulders	28 cum
3	Bricks	15000 nos
4	Brick tiles, Allahbad rofing tiles(flat or round)	24000 nos
5	Steam coal	30 tonnes

NOTE : 1.67 extra coolie(Female coolie) will be required for every additional lead of 50 metre 0115 coolie1.67 Nos @ ₹ 297.00 = ₹ 495.99 (Y)

Lead in Metres	Cost per 8 hours day	Increase in cost for every additional 50 metres or part thereof
	(X)	(Y)
50 metres	2277.99	495.99

Code No.	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day	Cost per unit	
							cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1st 50 m upto 0.50 km.
1	2	3	4	5	6	7	8	9
1.2.1	Lime, moorum, building rubbish	35	35	cum	15%	2619.69	74.85	16.30
1.2.2	Earth	35	28	cum	15%	2619.69	93.56	20.37
1.2.3	Manure or sludge	35	32.2	cum	15%	2619.69	81.36	17.71
1.2.4	Excavated rock	35	17.5	cum	15%	2619.69	149.70	32.59
1.2.5	Sand, stone aggregate below 40 mm nominal size	28	28	cum	15%	2619.69	93.56	20.37
1.2.6	Stone aggregate 40 mm nominal size and above	28	25.9	cum	15%	2619.69	101.15	22.02
1.2.7	Soling stone	28	23.8	cum	15%	2619.69	110.07	23.97
1.2.8	Bricks	15000 Nos	15000 Nos	1000 Nos	15%	2619.69	174.65	38.03
1.2.9	Brick Tiles	24000 Nos	24000 Nos	1000 Nos	15%	2619.69	109.15	23.77
1.2.10	Steam Coal	30 tonne	30 tonne	tonne	15%	2619.69	87.32	19.01

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate ₹
0114	Beldar	Day	297.00
0115	Coolie	Day	297.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114 Beldars 9.20 Nos @ ₹ 297.00 = ₹ 2732.40 (X)

Quantity of material as per column 3 of table below will be carried in 50 metres lead including loading and unloading.

NOTE:- 1.35 extra Beldar will be required for every additional lead of 50 metre 0114 coolie 1.35 Nos @ ₹ 297.00 = ₹ 400.95 (Y)

S. No	Material	Capacity per Trip	Net Qty payable after deduction for loose-ness	Unit of Rates	C.P. & Over head @ 15%	Cost per 8 hours day ₹	Cost per unit ₹	
							Cost for 1st 50 metres	Cost for addl. 50 m or part thereof 1st 50 m upto 0.50 km
1	2	3	4	5	6	7	8	9
1.2.11	Stoneblocks,G.I.,C.I. StainlessSteel pipes below100 mm dia and other heavy material	46 t	46 t	tonne	15%	3142.26	56.81	10.02
1.2.12	Cement	57.99 t	57.99 t	tonne	15%	3142.26	54.19	7.95
1.2.13	Steel	27 t	27 t	tonne	15%	3142.26	116.38	17.08
1.2.14	Timber	42 cum	42 cum	cum	15%	3142.26	74.82	10.98
1.2.15	Tar, bitumen etc.	46 t	46 t	toone	15%	3142.26	68.31	10.02
1.2.16	S.W. pipe							
1.2.16.1	100 mm dia	2298 m	2298 m	100 m	15%	3142.26	136.74	20.06
1.2.16.2	150 mm dia	1398 m	1398 m	100 m	15%	3142.26	224.77	32.98
1.2.16.3	200 mm dia	999 m	999 m	100 m	15%	3142.26	314.54	46.16
1.2.16.5	250 mm dia	600 m	600 m	100 m	15%	3142.26	523.71	76.85
1.2.16.6	300 mm dia	420 m	420 m	100 m	15%	3142.26	748.16	109.78
1.2.16.7	350 mm dia	300 m	300 m	100 m	15%	3142.26	1047.42	153.70
1.2.16.8	400 mm dia	240 m	240 m	100 m	15%	3142.26	1309.28	192.12
1.2.16.9	450 mm dia	198 m	198 m	100 m	15%	3142.26	1587.00	232.88
1.2.16.10	500 mm dia	162 m	162 m	100 m	15%	3142.26	1939.67	284.63
1.2.16.11	600 mm dia	132 m	132 m	100 m	15%	3142.26	2380.50	349.31
1.2.17	R.C.C. pipes, Steel cylinder,R.C.pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes							
1.2.17.1	100 mm dia	1702 m	1702 m	100 m	15%	3142.26	184.62	27.09
1.2.17.2	125 mm dia	1391 m	1391 m	100 m	15%	3142.26	225.90	33.15
1.2.17.3	150 mm dia	1208 m	1208 m	100 m	15%	3142.26	260.12	38.17
1.2.17.4	200 mm dia	805 m	805 m	100 m	15%	3142.26	390.34	57.28

1	2	3	4	5	6	7	8	9
1.2.17.5	250 mm dia	458 m	458 m	100 m	15%	3142.26	686.08	100.68
1.2.17.6	300 mm dia	366 m	366 m	100 m	15%	3142.26	858.54	125.98
1.2.17.7	350 mm dia	256 m	256 m	100 m	15%	3142.26	1227.45	180.11
1.2.17.8	400 mm dia	220 m	220 m	100 m	15%	3142.26	1428.30	209.59
1.2.17.9	450 mm & 500 mm dia	165 m	165 m	100 m	15%	3142.26	1904.40	279.45
1.2.17.10	600, 700, 750 & 800 mm dia	150 m	150 m	100 m	15%	3142.26	2094.84	307.40
1.2.18	Asbestos cement pipes							
1.2.18.1	50 mm dia	10064	10064	100 m	15%	3142.26	31.22	4.58
1.2.18.2	80 mm dia	3660	3660	100 m	15%	3142.26	85.85	12.60
1.2.18.3	100 mm dia	2562	2562	100 m	15%	3142.26	122.65	18.00
1.2.18.4	150 mm dia	1830	1830	100 m	15%	3142.26	171.71	25.20

1.3 Loading in or unloading cement from the Railway wagon at siding and carrying the same from or into godowns adjacent to the siding, including stacking the same properly in rows upto any height as per the direction of Engineer-in-charge, sweeping the wagons and screening the swept cement and filling in bags complete.

Code	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Details of cost of un-loading wagon of 23 tonnes				
0 114	Beldars	Each	3.75	297.00	1113.75
9999	Sundries (add for sweeping the wagon, screening the swept cement and filling the same in bags.				
				Total	1118.20
				Add 15% CPOH	167.73
				Cost for 23 tonnes	1285.93
				Cost per tonne	55.91
				Say	55.90

1.4 Loading in or unloading from the Railway wagon as per the direction of Engineer-in-charge.
1.4.1 Steel

Code	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Details of 44 tonnes of steel				
0114	Beldars	Each	10.66	297.00	3166.02
				Add 15% CPOH	474.90
				Cost of 44 tonnes	3640.92
				Cost per tonne	82.75

1: 4 : 2: G.I., CI, R.C.C. or C.C. Pipes Upto 500 mm dia and similar material

Code	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Details of cost for unloading 1 wagon of 14 tonnes				
0114	Beldars	Each	2.00	297.00	594.00
9999	Sundries	L.S.	3.10	1.70	5.27
				Total	599.27
				Add 15% CPOH	89.89
				Cost for 14 tonns	689.16
				Cost per tonne	49.23
				Say	49.25

SUB HEAD : 2.0

EARTH WORK

2.1 Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed.

2.1.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm and average depth 15 cm.				
	LABOUR:				
0114	Beldar	day	7.20	297.00	2138.40
0115	Coolie	day	6.00	297.00	1782.00
	TOTAL				3920.40
	Add Water Charges @ 1%				39.20
	TOTAL				3959.60
	Add CPOH @ 15%				593.94
	Cost of 100 sqm				4553.54
	Say				4553.55

2.2 Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m.

2.2.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0114	Beldar	day	5.90	297.00	1752.30
0115	Coolie	day	3.60	297.00	1069.20
0101	Bhisti	day	0.40	328.00	131.20
0113	Chowkidar	day	0.008	297.00	2.38
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
1235	Diesel oil	litre	0.144	48.63	7.00
2342	Carriage of Solvent / Diesel.	quintal	0.0014	10.66	0.01
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				2978.73
	Add Water Charges @ 1%				29.79
	TOTAL				3008.52
	Add CPOH @ 15%				451.28
	Cost of 10 cum				3459.80
	Cost of 1 cum				345.98
	Say				346.00

2.3 Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead up to 50 m and lift up to 1.5 m.

2.3.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0114	Beldar	day	2.20	297.00	653.40
0115	Coolie	day	3.60	297.00	1069.20
0101	Bhisti	day	0.40	328.00	131.20
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
0113	Chowkidar	day	0.008	297.00	2.38
1235	Diesel oil	litre	0.144	48.63	7.00
2342	Carriage of Solvent / Diesel.	quintal	0.0014	10.66	0.01
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				1879.83
	Add Water Charges @ 1%				18.80
	TOTAL				1898.63
	Add CPOH @ 15%				284.79
	Cost of 10 cum				2183.42
	Cost of 1 cum				218.34
	Say				218.35

2.4 Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0113	Chowkidar	day	0.008	297.00	2.38
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
1235	Diesel oil	litre	0.144	48.63	7.00
2342	Carriage of Solvent / Diesel.	quintal	0.0014	10.66	0.01
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				24.48
	Add Water Charges @ 1%				0.24
	TOTAL				24.72
	Add CPOH @ 15%				3.71
	Cost of 10 cum				28.43
	Cost of 1 cum				2.84
	Say				2.85

2.5 Deduct for notwatering the excavated earth for banking.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0101	Bhisti	day	0.40	328.00	131.20
	TOTAL				131.20
	Add Water Charges @ 1%				1.31
	TOTAL				132.51
	Add CPOH @ 15%				19.88
	Cost of 10 cum				152.39
	Cost of 1 cum				15.24
	Say				15.25

2.6 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.

2.6.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum. Average output of Hydraulic Excavator per hour = 30cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.04125	8000.00	330.00
0018	Hire and running charges of loader	day	0.04125	5000.00	206.25
	LABOUR:				
0128	Mate	day	0.40	328.00	131.20
	Beldar/				
0115	Coolie	day	2.00	297.00	594.00
	TOTAL				1261.45
	Add Water Charges @ 1%				12.61
	TOTAL				1274.06
	Add CPOH @ 15%				191.11
	Cost of 10 cum				1465.17
	Cost of 1 cum				146.52
	Say				146.50

2.7 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.

2.7.1 Ordinary rock.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.0625	8000.00	500.00
0017	Hire and running charges of tipper	day	0.0625	1700.00	106.25
0132	Rock Excavator	day	0.705	297.00	209.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0133	Rock Breaker	day	1.59	297.00	472.23
0134	Rock Hole Driller	day	0.355	297.00	105.43
0114	Beldar	day	0.50	297.00	148.50
0115	Coolie	day	1.35	297.00	400.95
9999	Sundries	L.S.	10.79	1.70	18.34
	TOTAL				1961.08
	Add Water Charges @ 1%				19.61
	TOTAL				1980.69
	Add CPOH @ 15%				297.10
	Cost of 10 cum				2277.79
	Cost of 1 cum				227.78
	Say				227.80

2.7.2 Hard rock (requiring blasting).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0132	Rock Excavator	day	1.06	297.00	314.82
0133	Rock Breaker	day	2.825	297.00	839.03
0134	Rock Hole Driller	day	0.885	297.00	262.85
0114	Beldar	day	0.45	297.00	133.65
0115	Coolie	day	1.35	297.00	400.95
0325	Blasting powder	kilogram	3.93	35.00	137.55
0326	Blasting fuse (fuse wire)	each	4.00	15.00	60.00
9999	Sundries	L.S.	16.12	1.70	27.40
	TOTAL				3388.75
	Add Water Charges @ 1%				33.89
	TOTAL				3422.64
	Add CPOH @ 15%				513.40
	Cost of 10 cum				3936.04
	Cost of 1 cum				393.60
	Say				393.60

2.7.3 Hard rock (blasting prohibited).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0132	Rock Excavator	day	2.47	297.00	733.59
0133	Rock Breaker	day	6.00	297.00	1782.00
0135	Stone Chiseller	day	1.06	328.00	347.68
0103	Blacksmith 2nd class	day	0.175	361.00	63.18
0114	Beldar	day	0.75	297.00	222.75
0115	Coolie	day	1.80	297.00	534.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	16.12	1.70	27.40
	TOTAL				4923.70
	Add Water Charges @ 1%				49.24
	TOTAL				4972.94
	Add CPOH @ 15%				745.94
	Cost of 10 cum				5718.88
	Cost of 1 cum				571.89
	Say				571.90

2.8 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.

2.8.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.04125	8000.00	330.00
0018	Hire and running charges of loader	day	0.04125	5000.00	206.25
	LABOUR:				
0128	Mate	day	0.40	328.00	131.20
	Beldar/				
0115	Coolie	day	2.05	297.00	608.85
	TOTAL				1276.30
	Add Water Charges @ 1%				12.76
	TOTAL				1289.06
	Add CPOH @ 15%				193.36
	Cost of 10 cum				1482.42
	Cost of 1 cum				148.24
	Say				148.25

2.9 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.

2.9.1 Ordinary rock.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.0625	8000.00	500.00
0017	Hire and running charges of tipper	day	0.0625	1700.00	106.25
	LABOUR:				
0132	Rock Excavator	day	0.885	297.00	262.85
0133	Rock Breaker	day	1.765	297.00	524.20
0134	Rock Hole Driller	day	0.53	297.00	157.41
0114	Beldar	day	0.50	297.00	148.50
0115	Coolie	day	1.30	297.00	386.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				2108.29
	Add Water Charges @ 1%				21.08
	TOTAL				2129.37
	Add CPOH @ 15%				319.41
	Cost of 10 cum				2448.78
	Cost of 1 cum				244.88
	Say				244.90

2.9.2 Hard rock (requiring blasting).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	1.24	297.00	368.28
0133	Rock Breaker	day	3.00	297.00	891.00
0134	Rock Hole Driller	day	1.06	297.00	314.82
0114	Beldar	day	0.50	297.00	148.50
0115	Coolie	day	1.30	297.00	386.10
0325	Blasting powder	kilogram	6.42	35.00	224.70
0326	Blasting fuse (fuse wire)	each	7.00	15.00	105.00
9999	Sundries	L.S.	18.85	1.70	32.04
	TOTAL				3682.94
	Add Water Charges @ 1%				36.83
	TOTAL				3719.77
	Add CPOH @ 15%				557.97
	Cost of 10 cum				4277.74
	Cost of 1 cum				427.77
	Say				427.75

2.9.3 Hard rock (blasting prohibited).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	2.65	297.00	787.05
0133	Rock Breaker	day	6.175	297.00	1833.98
0135	Stone Chiseller	day	1.06	328.00	347.68
0103	Blacksmith 2nd class	day	0.175	361.00	63.18
0114	Beldar	day	0.75	297.00	222.75
0115	Coolie	day	1.50	297.00	445.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	17.94	1.70	30.50
	TOTAL				4943.14
	Add Water Charges @ 1%				49.43
	TOTAL				4992.57
	Add CPOH @ 15%				748.89
	Cost of 10 cum				5741.46
	Cost of 1 cum				574.15
	Say				574.15

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.

2.10.1 All kinds of soil.

2.10.1.1 Pipes, cables etc, not exceeding 80 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum. Slope assumed 1 in 200. Earth work and filling- Minimum depth of trench 60cm. Average depth = (0.6+1.50)/2 = 1.05 Width for this depth = 0.45 cm 180x0.45xl.05 = 85.05 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	85.05	148.25	12608.66 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	101.50	8632.57 A
	TOTAL				21241.23
	Cost of 180 metre length of pipe				21241.23
	Cost of 1 metre				118.01
	Say				118.00

2.10.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 110 m length of a pipe of an average dia. say 200 mm. Slope assumed 1 in 200. Earth work and filling- Minimum depth of trench = 0.75+0.20 = 0.95m Average depth = (1.50+0.95)/2 = 1.225 m Width = 0.40 + 0.20 = 0.60 m 110x0.60x1.225 = 80.85 cum 5% for collars = 4.04 cum Total = 84.89 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	84.89	148.25	12584.94 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	84.89	101.50	8616.34 A
	TOTAL				21201.28
	Cost of 110 metre length of pipe				21201.28
	Cost of 1 metre				192.74
	Say				192.75

2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 60m length of pipe of an average dia. say 450mm. Slope assumed 1 in 200. Earth work and filling - Minimum depth of trench = 0.75+0.45= 1.20m Average depth = (1.50+1.20)/2 =1.35 Width = 0.40 + 0.45 = 0.85 m 60x0.85xl.35 = 68.85 cum 5% for collars = 3.44 cum Total = 72.29 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	72.29	148.25	10716.99 A
2.25 .	Rate as per Item Number 2.25 of SH: Earth work	cum	72.29	101.50	7337.44 A
	TOTAL				18054.43
	Cost of 60 metre length of pipe				18054.43
	Cost of 1 metre				300.91
	Say				300.90

2.11 Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 300m length of pipe of an average dia. say 200mm (rate in percentage). Slope assumed 1 in 200. 100x0.60x1.75= 105.00 cum 200x0.60x2.00 = 240.00 cum. Total = 345.00 cum. Collars 5% = 17.25 cum. Total = 362.25 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	362.25	148.25	53703.56
2.25	Rate as per Item Number 2.25 of SH: Earth work 1/2x200xx1.60x1.00=160 cum	cum	362.25	101.50	36768.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth work	cum	160.00	146.50	23440.00
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra for additional lift 1/2 x200x0.60x1.50= 135.00 cum. collars @ 5% = 6.75 Total = 141.75 cum	cum	160.00	101.50	16240.00
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work Cost for 300m length of pipe TOTAL = 136070.00	cum	141.75	41.75	5918.06 136070.00 X
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work Cost for 300 m. length of pipe upto 1.50 m. depth Extra cost for 300 metre X - Y = 136070.00 - 57825.00 Extra cost for 1 metre Z / 300 = 78245.00 / 300 Percentage increase over item No. 2.10.1.2 Z * 100 / Y = 78245.00 * 100 / 57825.00 Cost of 1 metre Say	metre	300.00	192.75	57825.00 Y 78245.00 Z 260.82 135.31 135.31 135.00

2.12 Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 m length of pipe pipe of an average dia. say 200 mm (rate in percentage). Slope assumed 1 in 200. Earth work and filling- 1x100x0.60x2= 120 cum Collars 5% = 6 cum. Total =126 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	126.00	148.25	18679.50
2.25	Rate as per Item Number 2.25 of SH: Earth work Earth work 100x1.60x1.25= 200 cum	cum	126.00	101.50	12789.00
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth work	cum	200.00	146.50	29300.00
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra for additional lift 1x100x0.60x1.50 = 90 cum 2x0.50x100x0.60x0.50 = 30 cum Tota l=120 cum Collare 5% = 6 Total = 126 cum.	cum	200.00	101.50	20300.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work	cum	126.00	41.75	5260.50
	Cost for 300m length of pipe				
	TOTAL = 86329.00				86329.00 X
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work	metre	100.00	192.75	19275.00 Y
	Cost for 100 m. length of pipe upto 1.50 m. depth				
	Extra cost for 100 metres				
	X - Y = 86329.00 - 19275.00				67054.00 Z
	Extra cost for 1 metre				
	Z / 100 = 67054.00 / 100				670.54
	Percentage increase over item No. 2.10.1.2				
	Z * 100 / Y = 67054.00 * 100 / 19275.00				347.88
	Cost of 1 metre				347.88
	Say				348.00

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m.

2.13.1 Ordinary rock.

2.13.1.1 Pipes, cables etc. not exceeding 80 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 180m length of pipe of a average dia. say 40mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.10.1.1				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	85.05	244.90	20828.74 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	101.50	8632.57 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.00	297.00	594.00
	TOTAL 30055.31				
	Add Water Charges @ 1% except on A i.e on (30,055.31 - 29,461.31 =) 594.00				5.94
	TOTAL				30061.25
	Add CPOH @ 15% except on A i.e on (30,061.25 - 29,461.31 =) 599.94				89.99
	Cost of 180 metre length of pipe				30151.24
	Cost of 1 metre				167.51
	Say				167.50

2.13.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 80m length of pipe of an average dia. Say 200mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Minimum depth of trench.				
	0.75+0.15+0.20 = 1.10m				
	Average depth = (1.10 + 1.50)/2 = 1.30m				
	Minimum width of trench = 0.90m				
	80x0.90x1.30 = 93.60 cum.				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	93.60	244.90	22922.64 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	93.60	101.50	9500.40 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.20	297.00	653.40
	TOTAL 33076.44				
	Add Water Charges @ 1% except on A i.e on (33,076.44 - 32,423.04 =) 653.40				6.53
	TOTAL				33082.97
	Add CPOH @ 15% except on A i.e on (33,082.97 - 32,423.04 =) 659.93				98.99
	Cost of 80 metre length of pipe				33181.96
	Cost of 1 metre				414.77
	Say				414.75

2.13.1.3 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30m length of pipe of an average dia. say 450mm.				
	Slope assumed 1 in 200.				
	Excavation-				
	Minimum depth of trench = 0.75+0.15+0.15= 1.35m.				
	Average depth = (1.35+ 1.50)/2 = 1.425 m.				
	Width of trench = 0.90 m.				
	30x0.90x1.425 =38.475 cum.				
	5% for collors = 1.924 cum				
	Total = 40.399 cum				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	40.399	244.90	9893.72 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	101.50	4100.50 A
0114	Beldar	day	0.94	297.00	279.18
	TOTAL				14273.40
	Add Water Charges @ 1% except on A i.e on (14,273.40 - 13,994.22 =) 279.18				2.79
	TOTAL				14276.19
	Add CPOH @ 15% except on A i.e on (14,276.19 - 13,994.22 =) 281.97				42.30
	Cost of 30 metre length of a pipe				14318.49
	Cost of 1 metre				477.28
	Say				477.30

2.13.2 Hard rock (requiring blasting).

2.13.2.1 Pipes, cables etc. not exceeding 80 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 180 m length of a pipe of a average dia. say 40 mm.				
	Slope assumed 1 in 200.				
	Excavation-				
	Quantity same as in item No.2.10.1.1				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work	cum	85.05	427.75	36380.14 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	101.50	8632.57 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.50	297.00	742.50
	TOTAL				45755.21
	Add Water Charges @ 1% except on A i.e on (45,755.21 - 45,012.71 =) 742.50				7.42
	TOTAL				45762.63
	Add CPOH @ 15% except on A i.e on (45,762.63 - 45,012.71 =) 749.92				112.49
	Cost of 180 metre length of pipe				45875.12
	Cost of 1 metre				254.86
	Say				254.85

2.13.2.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 80 m length of a pipe of an average dia. say 200 mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.2				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work	cum	93.60	427.75	40037.40 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	93.60	101.50	9500.40 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.75	297.00	816.75
	TOTAL				50354.55
	Add Water Charges @ 1% except on A i.e on (50,354.55 - 49,537.80 =) 816.75				8.17
	TOTAL				50362.72
	Add CPOH @ 15% except on A i.e on (50,362.72 - 49,537.80 =) 824.92				123.74
	Cost of 80 metre length of pipe				50486.46
	Cost of 1 metre				631.08
	Say				631.10

2.13.2.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.3				
2.9.2	Rate as per Item Number 2.9.2 of				
	SH: Earth work	cum	40.399	427.75	17280.67 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of				
	SH: Earth work	cum	40.399	101.50	4100.50 A
	Extra labour for ramming of rock				
0114	Beldar	day	1.17	297.00	347.49
	TOTAL				21728.66
	Add Water Charges @ 1% except on A i.e on (21,728.66 - 21,381.17 =) 347.49				3.47
	TOTAL				21732.13
	Add CPOH @ 15% except on A i.e on (21,732.13 - 21,381.17 =) 350.96				52.64
	Cost of 30 metre length of pipe				21784.77
	Cost of 1 metre				726.16
	Say				726.15

2.13.3 Hard rock (blasting prohibited).

2.13.3.1 Pipes, cables etc. not exceeding 80 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 180 m length of a pipe of a average dia. say 40 mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.10.1.1				
2.9.3	Rate as per Item Number 2.9.3 of	cum	85.05	574.15	48831.46 A
	SH: Earth work				
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of	cum	85.05	101.50	8632.57 A
	SH: Earth work				
	Extra labour for ramming of rock				
0114	Beldar	day	2.50	297.00	742.50
	TOTAL				58206.53
	Add Water Charges @ 1% except on A i.e on (58,206.53 - 57,464.03 =) 742.50				7.42
	TOTAL				58213.95
	Add CPOH @ 15% except on A i.e on (58,213.95 - 57,464.03 =) 749.92				112.49
	Cost of 180 metre length of pipe				58326.44
	Cost of 1 metre				324.04
	Say				324.05

2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 80 m length of a pipe of an average dia. say 200 mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.2				
2.9.3	Rate as per Item Number 2.9.3 of				
	SH: Earth work	cum	93.60	574.15	53740.44 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of				
	SH: Earth work	cum	93.60	101.50	9500.40 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.75	297.00	816.75
	TOTAL				64057.59
	Add Water Charges @ 1% except on A i.e on (64,057.59 - 63,240.84 =) 816.75				8.17
	TOTAL				64065.76
	Add CPOH @ 15% except on A i.e on (64,065.76 - 63,240.84 =) 824.92				123.74
	Cost of 80 metre length of pipe				64189.50
	Cost of 1 metre				802.37
	Say				802.35

2.13.3.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 m length of a pipe of an average dia. say 450 mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No. 2.13.1.3				
2.9.3	Rate as per Item Number 2.9.3 of				
	SH: Earth work	cum	40.399	574.15	23195.09 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of				
	SH: Earth work	cum	40.399	101.50	4100.50 A
	Extra labour for ramming of rock				
0114	Beldar	day	1.17	297.00	347.49
	TOTAL				27643.08
	Add Water Charges @ 1% except on A i.e on (27,643.08 - 27,295.59 =) 347.49				3.47
	TOTAL				27646.55
	Add CPOH @ 15% except on A i.e on (27,646.55 - 27,295.59 =) 350.96				52.64
	Cost of 30 metre length of pipe				27699.19
	Cost of 1 metre				923.31
	Say				923.30

2.14 Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 1.5 m in depth but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 m length of a pipe of an average dia. say 450 mm. Slope assumed 1 in 200 Excavation- 100x0.90x1.50 =157.50 cum. 200x0.90x20.00 = 360.00 cum. = 517.50 cum.				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work	cum	517.50	427.75	221360.62
	0.50x200x1.9x1 = 190 cum.				
2.7.2	Rate as per Item Number 2.7.2 of SH: Earth work Refilling, ramming and watering	cum	190.00	393.60	74784.00
	517.50+190.00 = 707.50 cum.				
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra for additional lift	cum	707.50	101.50	71811.25
	0.50x300x0.90x1.50 = 202.50 cum.				
2.26.2	Rate as per Item Number 2.26.2 of SH: Earth work Extra labour for ramming of rock	cum	202.50	74.90	15167.25
0114	Beldar	day	16.50	297.00	4900.50 P
	TOTAL = 388023.62				388023.62 S
	Add for WC @ 1% on P				
	P x 1 / 100 = 4900.50 x 1 / 100 49.01 Q				
	TOTAL				
	S + Q = 388023.62 + 49.01				388072.63
	Add for CPOH @ 15% on P + Q				
	(P + Q) x 15 / 100 = (4900.50 + 49.01) x 15 / 100				742.43 R
	Cost for 300 m length of pipe				
	S + Q + R = 388023.62 + 49.01 + 742.43				388815.06 X
2.13.2.2	Rate as per Item Number 2.13.2.2 of SH: Earth work Extra cost for 300 m	metre	300.00	631.10	189330.00 Y
	X - Y = 388815.06 - 189330.00				199485.06 Z
	Extra cost for 1 metre				
	Z / 300 = 199485.06 / 300				664.95
	Percentage increase over item No. 2.13.2.2				
	Z x 100 / Y = 199485.06 x 100 / 189330.00				105.36
	Cost of 1 metre				105.36
	Say				105.00

2.15 Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 3 m in depth but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 m length of a pipe of an average dia. say 200 mm. (rate in percentage). Slope assumed 1 in 200 Max, depth assumed 3.50m Excavation - 100x0.90x2 =180.00 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work 100x1.90x1.25 = 237.50 cum	cum	180.00	427.75	76995.00
2.7.2	Rate as per Item Number 2.7.2 of SH: Earth work Extra for additional lift 1x100x0.90x1.50= 135.00 2x0.50x100x0.90x0.5=45 Total = 180 cum	cum	237.50	393.60	93480.00
2.26.2	Rate as per Item Number 2.26.2 of SH: Earth work Refilling, ramming and watering 180+237.50 = 417.50 cum	cum	180.00	74.90	13482.00
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	417.50	101.50	42376.25
0114	Beldar	day	9.25	297.00	2747.25 P
	TOTAL = 229080.50				229080.50 S
	Add for WC @ 1% on P				
	P x 1 / 100 = 2747.25 x 1 / 100				27.47 Q
	TOTAL				
	S + Q = 229080.50 + 27.47				229107.97
	Add for CPOH @ 15% on P + Q				
	(P + Q) x 15 / 100 = (2747.25 + 27.47) x 15 / 100				416.21 R
	Cost for 100 m length of pipe				
	S + Q + R = 229080.50 + 27.47 + 416.21				229524.18 X
2.13.2.2	Rate as per Item Number 2.13.2.2 of SH: Earth work	metre	100.00	631.10	63110.00 Y
	Extra cost for 100 m				
	X - Y = 229524.18 - 63110.00				166414.18 Z
	Extra cost for 1 metre				
	Z / 100 = 166414.18 / 100				1664.14
	Percentage increase over item No. 2.13.2.2				
	Z x 100 / Y = 166414.18 x 100 / 63110.00				263.69
	Cost of 1 metre				263.69
	Say				264.00

2.16 Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete (Measurements to be taken of the face area timbered).

2.16.1 Depth not exceeding 1.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30 m long and 1.5 m deep. Area = 2 x 30 x 1.5 = 90 sqm. MATERIAL: The material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 cudm Wallings l00mmx 100mm of	10 cudm	213.75	260.00	5557.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = 51 x¼x¼ = 3.1875 m CARRIAGE: Poling boards = 3.42 cum Walling =1.20 cum. Balli struts: 3.14/4x(0.125)3x51 = 0.63 cum Total of carriage = 5.25x¼ = 1.3125 cum	metre	3.1875	42.00	133.88
2204	Carriage of timber	cum	1.3125	121.88	159.97
0112	Carpenter 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				8324.60
	Add Water Charges @ 1%				83.25
	TOTAL				8407.85
	Add CPOH @ 15%				1261.18
	Cost of 90 sqm				9669.03
	Cost of 1 sqm				107.43
	Say				107.45

2.16.2 Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30m long and 1.5m deep. Area = 2 x 30 x 1.5 = 90 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 cudm	10 cudm	213.75	260.00	5557.50
	Walings 100 mmx 100mm of				
1197	Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 cudm Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.50m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.1875 m	metre	3.1875	42.00	133.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Poling boards = 3.42 cum Walling =1.20 cum. Balli struts: 3.14/4x(0.125)3x51 =0.63 cum Total of carriage = 5.25x/4 = 1.3125 cum.				
2204	Carriage of timber	cum	1.3125	121.88	159.97
0112	Carpenter 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	2.00	297.00	594.00
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				8734.83
	Add Water Charges @ 1%				87.35
	TOTAL				8822.18
	Add CPOH @ 15%				1323.33
	Cost of 90 sqm				10145.51
	Cost of 1 sqm				112.73
	Say				112.75

2.16.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30 m long and 1.5m deep. Area = 2 x 30 x 1.5 = 90 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 340 cudm Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 cudm	10 cudm	213.75	260.00	5557.50
	Wallings 100mmx 100mm of				
1197	Second class kail wood in scantling 4x30x0.10x0.10 = l.20cum = 1200 dm3 Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.1875 m	metre	3.1875	42.00	133.88
	CARRIAGE: Poling boards = 3.42 cum Walling - = 1.20 cum. Balli struts: 3.14/4x(0.125)3x51 =0.63 cum Total of carriage = 5.25x¼ = 1.3125 cum				
2204	Carriage of timber	cum	1.3125	121.88	159.97
	LABOUR:				
0112	Carpenter 2nd class	day	1.50	361.00	541.50
0114	Beldar	day	4.00	297.00	1188.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				9668.09
	Add Water Charges @ 1%				96.68
	TOTAL				9764.77
	Add CPOH @ 15%				1464.72
	Cost of 90 sqm				11229.49
	Cost of 1 sqm				124.77
	Say				124.75

2.17 Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered).

2.17.1 Depth not exceeding 1.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m.				
	Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm.				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks	10 cudm	15.6875	260.00	407.88
	6.60x0.038 = 0.251 cum = 251 cudm				
	Qty taken for cost of using once				
	after deducting for credit = 251x¼x¼ = 15.6875 cudm				
	Walling of				
1197	Second class kail wood in scantling	10 cudm	5.125	260.00	133.25
	2x2x1.124x0.10x0.10 =0.045 cum				
	2x2x0.924x0.10x0.10 = 0.037 cum.				
	Total Kail wood = 0.082 cum. = 82cudm				
	Qty taken for cost of using once after				
	deducting for credit = 82x¼x¼ = 5.125 cudm				
0302	Safeda ballies 125 mm diameter	metre	0.4118	42.00	17.30
	and 1.50m long)				
	2x2x0.924 = 3.696				
	2x2x0.724 = 2.896				
	Total of balli = 6.592m				
	Qty taken for cost of using once				
	after deducting for credit = 6.592x¼x¼ = 0.4118m				
	CARRIAGE:				
	Poling boards = 0.251 cum				
	Walling =0.082 cum.				
	Balli struts 3.14/4x(0.125)2x6.59 = 0.081 cum.				
	Total of carriage = 0.414 cumx¼ = 0.1035 cum.				
2204	Carriage of timber	cum	0.1035	121.88	12.61
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	0.12	297.00	35.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				632.98
	Add Water Charges @ 1%				6.33
	TOTAL				639.31
	Add CPOH @ 15%				95.90
	Cost of 6.6 sqm				735.21
	Cost of 1 sqm				111.40
	Say				111.40

2.17.2 Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m. *Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm.* MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 6.6x0.038 = 0.251 cum = 251 cudm Qty taken for cost of using once after deducting for credit = 251x¼x¼ = 15.6875 cudm Walling of	10 cudm	15.6875	260.00	407.88
1197	Second class kail wood in scantling 2x2x1.124x0.10x0.10 = 0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = 82x¼x¼ = 5.125 cudm	10 cudm	5.125	260.00	133.25
0302	Safeda ballies 125 mm diameter and 1.5m long) 2x2x0.924 = 3.696 2x2x0.724 = 2.896 Total of balli = 6.592m Qty taken for cost of using once after -deducting for credit = 6.592x¼x¼ = 0.4118 m CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts 3.14/4x(0.125)2x6.59 = 0.081 cum Total of carriage = 0.414 cum x¼ = 0.1035 cum	metre	0.4118	42.00	17.30
2204	Carriage of timber LABOUR:	cum	0.1035	121.88	12.61
0112	Carpenter 2nd class	day	0.12	361.00	43.32
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	5.46	1.70	9.28
	TOTAL				697.89
	Add Water Charges @ 1%				6.98
	TOTAL				704.87
	Add CPOH @ 15%				105.73
	Cost of 6.6 sqm				810.60
	Cost of 1 sqm				122.82
	Say				122.80

2.17.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 6.6x0.038 = 0.251 cum = 251 cudm Qty taken for cost of using once after deducting for credit = 251x¼x¼ = 15.6875 cudm	10 cudm	15.6875	260.00	407.88
	Walling of				
1197	Second class kail wood in scantling 2x2x1.124x0.10x0.10 = 0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = 82x¼x¼ = 5.125 cudm	10 cudm	5.125	260.00	133.25
0302	Safeda ballies 125 mm diameter and 1.50m long 2x2x0.924 = 3.696 2x2x0.724 = 2.896 Total of balli = 6.592m Qty taken for cost of using once after -deducting for credit = 6.592x¼x¼ = 0.4118 m	metre	0.4118	42.00	17.30
	CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts 3.14/4x(0.125)2x6.59 = 0.081 cum. Total of carriage = 0.414 cum x¼ = 0.1035 cum				
2204	Carriage of timber	cum	0.1035	121.88	12.61
	LABOUR:				
0112	Carpenter 2nd class	day	0.19	361.00	68.59
0114	Beldar	day	0.38	297.00	112.86
9999	Sundries	L.S.	8.06	1.70	13.70
	TOTAL				766.19
	Add Water Charges @ 1%				7.66
	TOTAL				773.85
	Add CPOH @ 15%				116.08
	Cost of 6.6 sqm				889.93
	Cost of 1 sqm				134.84
	Say				134.85

2.18 Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered).

2.18.1 Depth not exceeding 1.5m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30 m long and 1.5 m deep Area: 30 x 1.5 = 45 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	75% of cost Poling boards of				
1198	Second class kail wood in planks 250x38mm : 45x0.038 = 1.71 cum = 1.710 cudm Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 cudm	10 cudm	106.875	260.00	2778.75
	Wallings l00mmx 100mm of				
1197	Second class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 cudm Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 cudm	10 cudm	18.75	260.00	487.50
	Raking struts				
0302	Safeda ballies 125 mm diameter 17 x 1.50 =25.5m Qty taken for cost of using once after deducting for credit = 25.5x¼x¼ = 1.59 m	metre	1.59	42.00	66.78
	CARRIAGE: Poling boards = 1.71 cum Walling = 0.30cum Rakingstruts3.14/4x(0.125)2 = 0.313cum Total of carriage = 2.323 cum x¼ = 0.581 cum				
2204	Carriage of timber	cum	0.581	121.88	70.81
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	31.46	1.70	53.48
	TOTAL				3696.07
	Add Water Charges @ 1%				36.96
	TOTAL				3733.03
	Add CPOH @ 15%				559.95
	Cost of 45 sqm				4292.98
	Cost of 1 sqm				95.40
	Say				95.40

2.18.2 Depth exceeding 1.5 m but not exceeding 3m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30m long and 1.5m deep Area: 30 x 1.5 = 45 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 250x38mm : 45x0.038 = 1.71 cum =1710 cudm Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 cudm Walling of	10 cudm	106.875	260.00	2778.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 cudm Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 cudm	10 cudm	18.75	260.00	487.50
	Raking struts				
0302	Safeda ballies 125 mm diameter 17 x 1.5 = 25.5m Qty taken for cost of using once after deducting for credit = 25.5x¼x¼ = 1.59 m	metre	1.59	42.00	66.78
	CARRIAGE: Poling boards = 1.71 cum Walling = 0.30 cum Raking struts 3.14/4x(0.125)2 = 0.313 cum Total of carriage = 2.323 cum x¼ = 0.581 cum				
2204	Carriage of timber	cum	0.581	121.88	70.81
	LABOUR:				
0112	Carpenter 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	34.06	1.70	57.90
	TOTAL				3939.24
	Add Water Charges @ 1%				39.39
	TOTAL				3978.63
	Add CPOH @ 15%				596.79
	Cost of 45 sqm				4575.42
	Cost of 1 sqm				101.68
	Say				101.70

2.18.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30m long and 1.5m deep Area: 30 x 1.5 = 45 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks 250x38mm : 45x0.038 = 1.71 cum = 1710 cudm Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 cudm	10 cudm	106.875	260.00	2778.75
	Walling of				
1197	Second class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 cudm Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 cudm	10 cudm	18.75	260.00	487.50
	Raking struts				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Safeda ballies 125 mm diameter 17 x 1.50 = 25.5m Qty taken for cost of using once after deducting for credit = 25.5x¼x¼ = 1.59 m CARRIAGE: Poling boards = 1.71 cum Walling =0.30 cum. Raking struts 3.14/4x(0.125)2 = 0.313 cum Total of carriage = 2.323 cum x¼ = 0.581 cum	metre	1.59	42.00	66.78
2204	Carriage of timber LABOUR:	cum	0.581	121.88	70.81
0112	Carpenter 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	1.50	297.00	445.50
9999	Sundries	L.S.	47.58	1.70	80.89
	TOTAL				4200.98
	Add Water Charges @ 1%				42.01
	TOTAL				4242.99
	Add CPOH @ 15%				636.45
	Cost of 45 sqm				4879.44
	Cost of 1 sqm				108.43
	Say				108.45

2.19 Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position (Face area of timber permanently left to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30m long and 1.5m deep Area: 2 x 30 x 1.5 = 90 sqm. MATERIAL: Poling boards of				
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 3420 - 427.5 = 2992.5 cudm	10 cudm	2992.5	260.00	77805.00
	Walings 100mmx100mm of				
1197	Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 cudm	10 cudm	1050.00	260.00	27300.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Less @ 1/8 of Qty as timber is supposed to be used once before = 51 - 6.37 = 44.63 m	metre	44.63	42.00	1874.46
2204	Carriage of timber Poling boards = 3.42 cum Walling =1.20 cum.	cum	2.675	121.88	326.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Balli struts: 3.14/4x(0.125)² x 51 = 0.63 cum = 5.25 cum Taking half = 5.25 x 14 = 2.675 cum				
	TOTAL				107305.49
	Add Water Charges @ 1%				1073.05
	TOTAL				108378.54
	Add CPOH @ 15%				16256.78
	Cost of 90 sqm				124635.32
	Cost of 1 sqm				1384.84
	Say				1384.85

2.20 Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered).

2.20.1 Depth not exceeding 1.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30 m long and 1.5 m deep Area: 2 x 30 x 1.5 = 90 sqm.				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling board of				
1198	Second class kail wood in planks 1.5mx0.25x0.038m 2x40x1.5x0.25x0.038= 1.14cum = 1140 cudm Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 cudm	10 cudm	71.25	260.00	1852.50
1197	Second class kail wood in scantling Walling l00mmxl00mm : 4x30mx0.lmx0.lm = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long)-2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m	metre	3.18	42.00	133.56
	CARRIAGE:				
	Poling boards =1.14 cum Walling =1.20 cum Bailies struts-3.14/4x(0.125)2 = 0.63 cum Total of carriage = 2.97 cum x¼ = 0.74 cum				
2204	Carriage of timber	cum	0.74	121.88	90.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				4298.59
	Add Water Charges @ 1%				42.99
	TOTAL				4341.58
	Add CPOH @ 15%				651.24
	Cost of 90 sqm				4992.82
	Cost of 1 sqm				55.48
	Say				55.50

2.20.2 Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30 m long and 1.5 m deep Area: 2 x 30 x 1.5 = 90 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 1.50mx0.25x0.038m 2x40x1.5x0.25x0.038= 1.14cum= 1140 cudm Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 cudm	10 cudm	71.25	260.00	1852.50
	Wallings of				
1197	Second class kail wood in scantling 100mmx 100mm: 4x30mx0.lmx0.lm = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m	metre	3.18	42.00	133.56
	CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts 3.14/4x(0.125)2 = 0.63 cum Total of carriage = 2.97 cum x¼ = 0.74 cum				
2204	Carriage of timber	cum	0.74	121.88	90.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	33.15	1.70	56.36
	TOTAL				4560.11
	Add Water Charges @ 1%				45.60
	TOTAL				4605.71
	Add CPOH @ 15%				690.86
	Cost of 90 sqm				5296.57
	Cost of 1 sqm				58.85
	Say				58.85

2.20.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30m long and 1.5m deep Area: 2 x 30 x 1.5 = 90 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Second class kail wood in planks 1.50mx0.25x0.038m : 2x40x1.5x0.25x0.038= 1.14 cum = 1140 cudm Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 cudm	10 cudm	71.25	260.00	1852.50
	Wallings of				
1197	Second class kail wood in scantling l00mmxl00mm : 4x30mx0.lmx0.lm = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 cudm	10 cudm	75.00	260.00	1950.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long)-2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m	metre	3.18	42.00	133.56
	CARRIAGE: Poling boards =1.14 cum Walling = 1.20 cum Bailies struts 3.14/4x(0.125)2 = 0.63 cum Total of carriage = 2.97 cum x¼ = 0.74 cum				
2204	Carriage of timber	cum	0.74	121.88	90.19
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.75	297.00	519.75
9999	Sundries	L.S.	46.67	1.70	79.34
	TOTAL				4986.34
	Add Water Charges @ 1%				49.86
	TOTAL				5036.20
	Add CPOH @ 15%				755.43
	Cost of 90 sqm				5791.63
	Cost of 1 sqm				64.35
	Say				64.35

2.21 Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered).

2.21.1 Depth not exceeding 1.5m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks 250mm wide and 38mm thick 6x0.25xl.5x0.038 = 0.086 cum = 86cudm Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 cudm	10 cudm	5.375	260.00	139.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Walling l00mmxl00mm of				
1197	Second class kail wood in scantling 4x 1.2x0.1 x0.1 = 0.048 cum = 48 cudm Qty taken for cost of using once after deducting for credit = 486x¼x¼ = 3 cudm	10 cudm	3.00	260.00	78.00
	Struts of				
0302	Safeda ballies 125 mm diameter (4x1.0=4.0)+(2x1.2=2.4) = 6.4m Qty taken for cost of using once after deducting for credit = 6.4x¼x¼ = 0.40 m	metre	0.40	42.00	16.80
	CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Bailies struts 3.14/4x(0.125)2 x 6.4 = 0.079 cum Total of carriage = 0.213 cum x¼ = 0.053 cum				
2204	Carriage of timber	cum	0.053	121.88	6.46
	LABOUR:				
0112	Carpenter 2nd class	day	0.03	361.00	10.83
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				272.75
	Add Water Charges @ 1%				2.73
	TOTAL				275.48
	Add CPOH @ 15%				41.32
	Cost of 6.6 sqm				316.80
	Cost of 1 sqm				48.00
	Say				48.00

2.21.2 Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m. *Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm.* MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks 250mm wide and 38mm thick : 6x0.25x1.5x0.038 = 0.086 cum = 86cudm Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 cudm	10 cudm	5.375	260.00	139.75
	Walling 100mmxl00mm of				
1197	Second class kail wood in scantling 4x1.2x0.1 x0.1 = 0.048 cum = 48 cudm Qty taken for cost of using once after deducting for credit = 486x¼x¼ = 3 cudm	10 cudm	3.00	260.00	78.00
	Struts of				
0302	Safeda ballies 125 mm diameter (4x1.0=4.0)+(2x1.2=2.4) = 6.4m Qty taken for cost of using once after deducting for credit = 6.4x¼x¼ = 0.40 m	metre	0.40	42.00	16.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Bailies struts 3.14/4x(0.125)2 x 6.4 = 0.079 cum Total of carriage = 0.213 cum x¼ = 0.053 cum				
2204	Carriage of timber	cum	0.053	121.88	6.46
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	0.12	297.00	35.64
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				302.95
	Add Water Charges @ 1%				3.03
	TOTAL				305.98
	Add CPOH @ 15%				45.90
	Cost of 6.6 sqm				351.88
	Cost of 1 sqm				53.32
	Say				53.30

2.21.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: 2x(1.2+1.0)x1.5 = 6.60 sqm. MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of				
1198	Second class kail wood in planks 250mm wide and 38mm thick : 6x0.25x1.5x0.038 = 0.086 cum = 86cudm Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 cudm	10 cudm	5.375	260.00	139.75
	Walling 100mmx 100mm of				
1197	Second class kail wood in scantling 4x1.2x0.10 x0.10 = 0.048 cum = 48 cudm Qty taken for cost of using once after deducting for credit = 48x¼x¼ = 3 cudm	10 cudm	3.00	260.00	78.00
	Struts of				
0302	Safeda ballies 125 mm diameter (4x1.0=4.0)+(2x1.2=2.4) = 6.4m Qty taken for cost of using once after deducting for credit = 6.4x¼x¼ = 0.4 m	metre	0.40	42.00	16.80
	CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Balllies struts 3.14/4x(0.125)2 x 6.4 = 0.079 cum Total of carriage = 0.213 cum x¼ = 0.053 cum				
2204	Carriage of timber	cum	0.053	121.88	6.46
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	3.64	1.70	6.19
	TOTAL				342.70
	Add Water Charges @ 1%				3.43
	TOTAL				346.13
	Add CPOH @ 15%				51.92
	Cost of 6.6 sqm				398.05
	Cost of 1 sqm				60.31
	Say				60.30

2.22 Open timbering over areas including strutting, shoring etc. complete (Measurements to be taken of the face area timbered).

2.22.1 Depth not exceeding 1.5m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30m long and 1.5m deep Area: 30 x 1.5 = 45 sqm.				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks 250mm x 38mm	10 cudm	35.625	260.00	926.25
	40x1.5x0.25x0.038 = 0.57cum. = 570 cudm				
	Qty taken for cost of using once after deducting for credit = 570x¼x¼ = 35.625 cudm				
	Raking struts-				
0302	Safeda ballies 125 mm diameter	metre	3.75	42.00	157.50
	40x1.50 = 60m				
	Qty taken for cost of using once after deducting for credit = 60x¼x¼ = 3.75 m				
	CARRIAGE:				
	Poling boards = 0.57 cum				
	Bailies 40x1.5x3.14/4x(0.125)2 = 0.40 cum.				
	Total for carriage =1.31 cum x¼ = 0.3275 cum				
2204	Carriage of timber	cum	0.3275	121.88	39.92
	LABOUR:				
0112	Carpenter 2nd class	day	0.12	361.00	43.32
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				1274.83
	Add Water Charges @ 1%				12.75
	TOTAL				1287.58
	Add CPOH @ 15%				193.14
	Cost of 45 sqm				1480.72
	Cost of 1 sqm				32.90
	Say				32.90

2.22.2 Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30m long and 1.5m deep Area: 30 x 1.5 = 45 sqm.				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks 250mm x 38mm	10 cudm	35.625	260.00	926.25
	40x1.5x0.25x0.038 = 0.57cum. = 570 cudm				
	Qty taken for cost of using once after deducting for credit = 570x¼x¼ = 35.625 cudm				
	Raking struts-				
0302	Safeda ballies 125 mm diameter	metre	3.75	42.00	157.50
	40x1.5 = 60m				
	Qty taken for cost of using once after deducting for credit = 60x¼x¼ = 3.75 m				
	CARRIAGE:				
	Poling boards = 0.57 cum				
	Bailies 40x1.5x3.14/4x(0.125)2 = 0.40 cum.				
	Total for carriage =1.31 cum x¼ = 0.3275 cum				
2204	Carriage of timber	cum	0.3275	121.88	39.92
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	33.15	1.70	56.36
	TOTAL				1418.78
	Add Water Charges @ 1%				14.19
	TOTAL				1432.97
	Add CPOH @ 15%				214.95
	Cost of 45 sqm				1647.92
	Cost of 1 sqm				36.62
	Say				36.60

2.22.3 Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30 m long and 1.5 m deep Area: 30 x 1.5 = 45 sqm.				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks 250mm x 38mm	10 cudm	35.625	260.00	926.25
	40x1.5x0.25x0.038 = 0.57cum. = 570 cudm				
	Qty taken for cost of using once after deducting for credit = 570x¼x¼ = 35.625 cudm				
	Raking struts-				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Safeda ballies 125 mm diameter 40x1.50 = 60m Qty taken for cost of using once after deducting for credit = 60x¼x¼ = 3.75 m	metre	3.75	42.00	157.50
2204	Carriage of timber Poling boards = 0.57 cum Bailies 40x1.5x3.14/4x(0.125)2 = 0.40 cum. Total for carriage = 131 cum x¼ = 0.3275 cum	cum	0.3275	121.88	39.92
	LABOUR:				
0112	Carpenter 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	0.88	297.00	261.36
9999	Sundries	L.S.	47.58	1.70	80.89
	TOTAL				1646.42
	Add Water Charges @ 1%				16.46
	TOTAL				1662.88
	Add CPOH @ 15%				249.43
	Cost of 45 sqm				1912.31
	Cost of 1 sqm				42.50
	Say				42.50

2.23 Extra for planking and strutting in open timbering if required to be left permanently in position (Face area of the timber permanently left to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30m long and 1.5m deep Area: 2 x 30 x 1.5 = 90 sqm. MATERIAL: Poling boards of				
1198	Second class kail wood in planks 1.50mx0.25x0.038 2x40xl.5x0.25x0.038 = 1.14cum = 1140 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1140 -142.50 = 997.50 cudm	10 cudm	997.50	260.00	25935.00
	Walling 100mmx 100mm of				
1197	Second class kail wood in scantling 4x30mx0.10 mx0.10 m = 1.20cum= 1200 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 cudm	10 cudm	1050.00	260.00	27300.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long)-2x17x1.5= 51m Less @ 1/8 of Qty as timber is supposed to be used once before = 51- 6.37 = 44.63 m	metre	44.63	42.00	1874.46
2204	Carriage of timber Poling boards =1.14 cum Walling =1.20 cum Bailies struts 51x3.14x¼x(0.125)2 = 0.63 cum Total of carriage = 2.97 cum	cum	1.485	121.88	180.99

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Taking half = 2.97 x½ =.1.485 cum				
	TOTAL				55290.45
	Add Water Charges @ 1%				552.90
	TOTAL				55843.35
	Add CPOH @ 15%				8376.50
	Cost of 90 sqm				64219.85
	Cost of 1 sqm				713.55
	Say				713.55

2.24 Extra rates for quantities of works, executed.

2.24.1 In or underwater and/or liquidmud, including pumping out water as required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for				
	Extra due to slow progress and dewatering: 20% of the rate of the item				
	1 x 20 = 1 x 20				20.00
	(20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but ltd. To quantities of work excuted in difficult condition.)				
	Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10m, 0.05m or more shall be taken as 0.10m and less than 0.05m ignored.				
	Cost of 1 metre depth				20.00
	Say				20.00

2.24.2 In or under foul position, including pumping outwater as required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for				
	Extra due to slow progress and dewatering: 25% of the rate of the item				
	1 x 25 = 1 x 25				25.00
	(25% of the rate of the item. This pertains to only such. Pumping of water as is envisaged at the time of tendering and don't incl ude those that covered under contrac- tual risk)				
	Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.				
	Cost of 1 metre depth				25.00
	Say				25.00

2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0128	Mate	day	0.20	328.00	65.60
0115	Coolie	day	2.50	297.00	742.50
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				873.70
	Add Water Charges @ 1%				8.74
	TOTAL				882.44
	Add CPOH @ 15%				132.37
	Cost of 10 cum				1014.81
	Cost of 1 cum				101.48
	Say				101.50

2.26 Extra for every additional lift of 1.5 m or part there of in excavation / banking excavated or stacked materials.

2.26.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0128	Mate	day	0.10	328.00	32.80
0114	Beldar	day	1.10	297.00	326.70
	TOTAL				359.50
	Add Water Charges @ 1%				3.60
	TOTAL				363.10
	Add CPOH @ 15%				54.46
	Cost of 10 cum				417.56
	Cost of 1 cum				41.76
	Say				41.75

2.26.2 Ordinary or hard rock.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	LABOUR:				
0128	Mate	day	0.20	328.00	65.60
0114	Beldar	day	1.95	297.00	579.15
	TOTAL				644.75
	Add Water Charges @ 1%				6.45
	TOTAL				651.20
	Add CPOH @ 15%				97.68
	Cost of 10 cum				748.88
	Cost of 1 cum				74.89
	Say				74.90

2.27 Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming consolidating and dressing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cum.				
	MATERIAL:				
6501	Sand zone V (Jamuna)	cum	10.00	550.00	5500.00
2335	Carriage of Jamuna sand	cum	10.00	106.64	1066.40
	LABOUR:				
0114	Beldar	day	0.89	297.00	264.33
0115	Coolie	day	1.07	297.00	317.79
0101	Bhisti	day	0.35	328.00	114.80
	TOTAL				7263.32
	Add Water Charges @ 1%				72.63
	TOTAL				7335.95
	Add CPOH @ 15%				1100.39
	Cost of 10 cum				8436.34
	Cost of 1 cum				843.63
	Say				843.65

2.28 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.

2.28.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	LABOUR:				
0114	Beldar	day	1.97	297.00	585.09
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				968.22
	Add Water Charges @ 1%				9.68
	TOTAL				977.90
	Add CPOH @ 15%				146.68
	Cost of 100 sqm				1124.58
	Say				1124.60

2.29 Ploughing the existing ground to a depth of 15 cmto 25 cmand watering the same.

2.29.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	LABOUR:				
0114	Beldar	day	2.75	297.00	816.75
0101	Bhisti	day	0.50	328.00	164.00
	TOTAL				980.75
	Add Water Charges @ 1%				9.81
	TOTAL				990.56
	Add CPOH @ 15%				148.58
	Cost of 100 sqm				1139.14
	Say				1139.15

2.30 Excavating holes more than 0.10 cum & upto 0.50 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift up to 1.5 m.

2.30.1 All kinds of soil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes.				
	Earth work 10 x 0.30 (avg) = 3.0 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	3.00	148.25	444.75 A
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				467.73
	Add Water Charges @ 1% except on A i.e on				0.23
	(467.73 - 444.75 =) 22.98				
	TOTAL 467.96				
	Add CPOH @ 15% except on A i.e on				3.48
	(467.96 - 444.75 =) 23.21				
	Cost of 10 holes				471.44
	Cost of each				47.14
	Say				47.15

2.30.2 Ordinary rock.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes.				
	Earth work 10 x 0.3 (avg) = 3.0 cum				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	3.00	244.90	734.70 A
	Extra labour for filling and ramming				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				757.68
	Add Water Charges @ 1% except on A i.e on (757.68 - 734.70 =) 22.98				0.23
	TOTAL				757.91
	Add CPOH @ 15% except on A i.e on (757.91 - 734.70 =) 23.21				3.48
	Cost of 10 holes				761.39
	Cost of each				76.14
	Say				76.15

2.30.3 Hard rock (requiring blasting).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes.				
	Earth work 10 x 0.3 (avg) = 3.0 cum				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work Extra labour for filling and ramming	cum	3.00	427.75	1283.25 A
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				1306.23
	Add Water Charges @ 1% except on A i.e on (1,306.23 - 1,283.25 =) 22.98				0.23
	TOTAL				1306.46
	Add CPOH @ 15% except on A i.e on (1,306.46 - 1,283.25 =) 23.21				3.48
	Cost of 10 holes				1309.94
	Cost of each				130.99
	Say				131.00

2.30.4 Hard rock (blasting prohibited).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes.				
	Earth work 10 x 0.3 (avg) = 3.0 cum				
2.9.3	Rate as per Item Number 2.9.3 of SH: Earth work Extra labour for filling and ramming	cum	3.00	574.15	1722.45 A
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				1745.43
	Add Water Charges @ 1% except on A i.e on (1,745.43 - 1,722.45 =) 22.98				0.23
	TOTAL				1745.66
	Add CPOH @ 15% except on A i.e on (1,745.66 - 1,722.45 =) 23.21				3.48
	Cost of 10 holes				1749.14
	Cost of each				174.91
	Say				174.90

2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm.				
	LABOUR:				
0114	Beldar	day	1.08	297.00	320.76
0115	Coolie	day	0.60	297.00	178.20
	TOTAL				498.96
	Add Water Charges @ 1%				4.99
	TOTAL				503.95
	Add CPOH @ 15%				75.59
	Cost of 100 sqm				579.54
	Say				579.55

2.32 Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm.				
	LABOUR:				
0114	Beldar	day	0.60	297.00	178.20
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				255.54
	Add Water Charges @ 1%				2.56
	TOTAL				258.10
	Add CPOH @ 15%				38.72
	Cost of 100 sqm				296.82
	Say				296.80

2.33 Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.

2.33.1 Beyond 30 cm girth up to and including 60 cm girth.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one tree of 15cm dia and average height 3m.				
	LABOUR:				
	quantity of wood-				
	3.14/4x0.15x0.15x3 = 0.053 cum.				
	Add 20% for branches = 0.011 cum.				
	Total = 0.064 cum.				
	Labour for cutting in trees removing the roots from the soil and then filling in Pit and depresions.				
0114	Beldar	day	0.33	297.00	98.01
0115	Coolie	day	0.17	297.00	50.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				153.14
	Add Water Charges @ 1%				1.53
	TOTAL				154.67
	Add CPOH @ 15%				23.20
	Cost of each				177.87
	Say				177.85

2.33.2 Beyond 60 cm girth up to and including 120 cm girth.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average girth 90cm, average dia. 0.3m and length 5m.				
	LABOUR:				
	quantity of wood-				
	(22x0.3x0.3x5)/7x4 = 0.35 cum				
	20% branches = 0.07 cum				
	Total = 0.42 cum				
	Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	1.50	297.00	445.50
0115	Coolie	day	0.75	297.00	222.75
9999	Sundries	L.S.	5.46	1.70	9.28
	TOTAL				677.53
	Add Water Charges @ 1%				6.78
	TOTAL				684.31
	Add CPOH @ 15%				102.65
	Cost of each				786.96
	Say				786.95

2.33.3 Beyond 120 cm girth up to and including 240 cm girth.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average girth 180cm, average dia. 0.6m and length 7m.				
	LABOUR:				
	quantity of wood-				
	(22x0.6x0.6x7)/7x4 = 1.98 cum +				
	20% branches = 0.40 cum				
	Total = 2.38 cum				
	Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	7.00	297.00	2079.00
0115	Coolie	day	3.50	297.00	1039.50
9999	Sundries	L.S.	8.06	1.70	13.70
	TOTAL				3132.20
	Add Water Charges @ 1%				31.32
	TOTAL				3163.52
	Add CPOH @ 15%				474.53
	Cost of each				3638.05
	Say				3638.05

2.33.4 Above 240 cm girth.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average girth 300cm, average dia. 1m and length 10m. LABOUR: quantity of wood- (22 x 1 x 1 x 10)/7x4 = 7.86 cum 20% branches = 1.57 cum Total = 9.43 cum Total = 9.43 cum Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	14.00	297.00	4158.00
0115	Coolie	day	7.00	297.00	2079.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				6282.75
	Add Water Charges @ 1%				62.83
	TOTAL				6345.58
	Add CPOH @ 15%				951.84
	Cost of each				7297.42
	Say				7297.40

2.34 Supplying chemical emulsion in sealed containers including delivery as specified.

2.34.1 Chlorpyriphos / Lindane emulsifiable concentrate of 20%.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average girth 300cm, average dia. 1m and length 10m.				
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	100.00	160.00	16000.00
2342	Carriage of Solvent / Diesel.	quintal	1.00	10.66	10.66
	TOTAL				16010.66
	Add Water Charges @ 1%				160.11
	TOTAL				16170.77
	Add CPOH @ 15%				2425.62
	Cost of 100 litre				18596.39
	Cost of 1 litre				185.96
	Say				185.95

2.35 Diluting and injecting chemical emulsion for POST- CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion).

2.35.1 Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete.

2.35.1.1 With Chlorpyriphos / Lindane E.C. 20%with 1%concentration.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres. MATERIAL: Chlorpyriphos 1% concentration = 10.0x0.30x7.5 = 22.5 litres				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Chlorpyriphos 20% required = 22.5/20 = 1.125 litres Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.125 litres (to be supplied free of cost) LABOUR:				
0114	Beldar (for excavating channel) rodding in chemical spraying the emulssion and refilling the same	day	0.33	297.00	98.01
9999	Sundries and rent of sprayer etc.	L.S.	13.52	1.70	22.98
	TOTAL				120.99
	Add Water Charges @ 1%				1.21
	TOTAL				122.20
	Add CPOH @ 15%				18.33
	Cost of 10 metres				140.53
	Cost of 1 metre				14.05
	Say				14.05

2.35.2 Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.

2.35.2.1 With Chlorpyriphosl Lindane E.C. 20% with 1% concentration.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres. MATERIAL: Chlorpyriphos 1% concentration = 10.0x2.25 = 22.5 litres Chlorpyriphos 20% required = 22.5/20 = 1.125 litres Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.125 litres (to be supplied free of cost) LABOUR:				
0114	Beldar (for drilling holes and injecting chemical)	day	0.40	297.00	118.80
9999	Sundries and rent of a sprayer and mortar and making good the holes	L.S.	35.88	1.70	61.00
	TOTAL				179.80
	Add Water Charges @ 1%				1.80
	TOTAL				181.60
	Add CPOH @ 15%				27.24
	Cost of 10 metres				208.84
	Cost of 1 metre				20.88
	Say				20.90

2.35.3 Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.

2.35.3.1 With Chlorpyriphos/Lindane E.C. 20%with 1%concentration.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9 sqm (3 metre x 3 metre)				
	No. of holes - 100 nos.				
	MATERIAL:				
	Chlorpyriphos 1% required				
	100x1 litre = 100 litres				
	Chlorpyriphos 20% E.C. = 100/20 = 5.0 litres				
	Chlorpyriphos 20% E.C. / Lindane 20% E.C. 5 litres (to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	2.00	297.00	594.00
	(For making holes & spraying)				
0124	Mason (brick layer) 2nd class	day	0.50	361.00	180.50
9999	Sundries, rent of sprayer and mortar.	L.S.	35.88	1.70	61.00
	TOTAL				835.50
	Add Water Charges @ 1%				8.36
	TOTAL				843.86
	Add CPOH @ 15%				126.58
	Cost of 9 sqm				970.44
	Cost of 1 sqm				107.83
	Say				107.85

2.35.4 Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.

2.35.4.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres.				
	MATERIAL:				
	No. of holes 10.0/0.30 = 33.33+1 = 34.33 holes				
	Say 34 holes				
	chlorpyriphos 1% concentration required				
	= 34x1.0 = 34.00 litres				
	Chlorpyriphos 20% E.C. required				
	34.00/20= 1.70 litres				
	Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.7 litres (to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	0.30	297.00	89.10
	(for making holes at 45 deg and spraying the emulsion)				
0124	Mason (brick layer) 2nd class	day	0.05	361.00	18.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, rent of pump etc.	L.S.	17.94	1.70	30.50
	TOTAL				137.65
	Add Water Charges @ 1%				1.38
	TOTAL				139.03
	Add CPOH @ 15%				20.85
	Cost of 10 metre				159.88
	Cost of 1 metre				15.99
	Say				16.00

2.35.5 Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos / Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres.				
	MATERIAL:				
	No. of holes 10.0/0.15 = 66.67+1 = 67.67 holes				
	Say 68 holes				
	Chlordane 1% concentration required				
	= 68 x 0.5 = 34.00 litres				
	Chlordane 20% E.C. required				
	34.00/20=1.70 litres				
	Chlordane 20% E.C. / Lindane 20% E.C. 1.7				
	litres (to be supplied free of cost)				
	Kerosene oil = 34-1.7 = 32.30 litres				
0771	Kerosene oil	litre	32.30	45.00	1453.50
0112	Carpenter 2nd class	day	0.20	361.00	72.20
	(For making holes and plugging the same)				
0114	Beldar	day	0.20	297.00	59.40
	for injecting chemical				
9999	Sundries	L.S.	17.94	1.70	30.50
	TOTAL				1615.60
	Add Water Charges @ 1%				16.16
	TOTAL				1631.76
	Add CPOH @ 15%				244.76
	Cost of 10 metre				1876.52
	Cost of 1 metre				187.65
	Say				187.65

2.36 Deduct for disposed soil not levelled and neatly dressed.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	LABOUR:				
0128	Mate	day	0.08	328.00	26.24
	Beldar /				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.80	297.00	237.60
	TOTAL				263.84
	Add Water Charges @ 1%				2.64
	TOTAL				266.48
	Add CPOH @ 15%				39.97
	Cost of 10 cum				306.45
	Cost of 1 cum				30.65
	Say				30.65

2.37 Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 cum.				
	Ref :- Based on DAR Item No : 1.1.1 A) ii)				
	Material and carriage				
	1980 Fly ash	cum	1.00	7.75	7.75
	(Available free of cost at thermal power plant at Baderpur power plant. Lead = 35 km)				
2262	Carriage of flyash	cum	1.00	106.64	106.64
	1st lead 0 to 5 km				
	TOTAL				114.39
	Add Water Charges @ 1%				1.14
	TOTAL				115.53
	Add CPOH @ 15%				17.33
	Cost of 1 cum				132.86
	Say				132.85

2.38 Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer – in-charge, including compacting each layer by rolling/ ramming and watering , all complete as per drawing and direction of Engineer -in - charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	Ref :- Based on DAR Item No : 2.25				
	LABOUR:				
0128	Mate	day	0.20	328.00	65.60
0115	Coolie	day	2.50	297.00	742.50
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				873.70
	Add Water Charges @ 1%				8.74
	TOTAL				882.44
	Add CPOH @ 15%				132.37
	Cost of 10 cum				1014.81
	Cost of 1 cum				101.48
	Say				101.50

SUB HEAD : 3.0

MORTARS

3.1 Cement Mortar 1:1 (1 cement : 1 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.7125 cum. of cement = 1.02 tonne)				
	Cement required for cement mortar is 71.25%				
0367	Portland Cement	tonne	1.02	5240.00	5344.80
2209	Carriage of cement	tonne	1.02	94.80	96.70
0983	Fine sand (zone IV)	cum	0.7125	650.00	463.12
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.7125	106.64	75.98
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.90	1.70	45.73
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				6295.02
	Cost of 1 cum				6295.02
	Say				6295.00

3.2 Cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5240.00	3563.20
2209	Carriage of cement	tonne	0.68	94.80	64.46
0983	Fine sand (zone IV)	cum	0.95	650.00	617.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.95	106.64	101.31
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				4660.91
	Cost of 1 cum				4660.91
	Say				4660.90

3.3 Cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.375 cum. of cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.51	5240.00	2672.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	0.51	94.80	48.35
0983	Fine sand (zone IV)	cum	1.07	650.00	695.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3844.79
	Cost of 1 cum				3844.79
	Say				3844.80

3.4 Cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne)				
	Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.38	5240.00	1991.20
2209	Carriage of cement	tonne	0.38	94.80	36.02
0983	Fine sand (zone IV)	cum	1.07	650.00	695.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3151.26
	Cost of 1 cum				3151.26
	Say				3151.25

3.5 Cement mortar 1:5 (1 cement : 5 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5240.00	1624.40
2209	Carriage of cement	tonne	0.31	94.80	29.39
0983	Fine sand (zone IV)	cum	1.07	650.00	695.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				2777.83
	Cost of 1 cum				2777.83
	Say				2777.85

3.6 Cement mortar 1:6 (1 cement : 6 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne)				
	Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.25	5240.00	1310.00
2209	Carriage of cement	tonne	0.25	94.80	23.70
0983	Fine sand (zone IV)	cum	1.07	650.00	695.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				2457.74
	Cost of 1 cum				2457.74
	Say				2457.75

3.7 Cement mortar 1:2 (1 cement : 2 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.5%				
0367	Portland Cement	tonne	0.68	5240.00	3563.20
2209	Carriage of cement	tonne	0.68	94.80	64.46
0982	Coarse sand (zone III)	cum	0.95	1120.00	1064.00
2203	Carriage of coarse sand	cum	0.95	106.64	101.31
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				5107.41
	Cost of 1 cum				5107.41
	Say				5107.40

3.8 Cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.357 cum. of cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.51	5240.00	2672.40
2209	Carriage of cement	tonne	0.51	94.80	48.35
0982	Coarse sand (zone III)	cum	1.07	1120.00	1198.40
2203	Carriage of coarse sand	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				4347.69
	Cost of 1 cum				4347.69
	Say				4347.70

3.9 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne)				
	Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.38	5240.00	1991.20
2209	Carriage of cement	tonne	0.38	94.80	36.02
0982	Coarse sand (zone III)	cum	1.07	1120.00	1198.40
2203	Carriage of coarse sand	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3654.16
	Cost of 1 cum				3654.16
	Say				3654.15

3.10 Cement mortar 1:5 (1 cement : 5 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.214cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5240.00	1624.40
2209	Carriage of cement	tonne	0.31	94.80	29.39
0982	Coarse sand (zone III)	cum	1.07	1120.00	1198.40
2203	Carriage of coarse sand	cum	1.07	106.64	114.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3280.73
	Cost of 1 cum				3280.73
	Say				3280.75

3.11 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne)				
	Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.25	5240.00	1310.00
2209	Carriage of cement	tonne	0.25	94.80	23.70
0982	Coarse sand (zone III)	cum	1.07	1120.00	1198.40
2203	Carriage of coarse sand	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				2960.64
	Cost of 1 cum				2960.64
	Say				2960.65

3.12 Cement mortar 1:2 (1 cement : 2 stone dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5240.00	3563.20
2209	Carriage of cement	tonne	0.68	94.80	64.46
1159	Stone dust	cum	0.95	1000.00	950.00
2267	Carriage of stone dust	cum	0.95	106.64	101.31
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				4993.41
	Cost of 1 cum				4993.41
	Say				4993.40

3.13 Cement mortar 1:2 (1 cement : 2 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5240.00	3563.20
2209	Carriage of cement	tonne	0.68	94.80	64.46
0784	Marble dust/ powder	cum	0.95	1000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.95	106.64	101.31
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				4993.41
	Cost of 1 cum				4993.41
	Say				4993.40

3.14 Cement mortar 1:5 (1 cement : 5 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5240.00	1624.40
2209	Carriage of cement	tonne	0.31	94.80	29.39
0784	Marble dust/ powder	cum	1.07	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3152.33
	Cost of 1 cum				3152.33
	Say				3152.35

3.15 White cement mortar 1:2 (1 white cement : 2 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum. of white cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0368	White Cement	tonne	0.68	14000.00	9520.00
2209	Carriage of cement	tonne	0.68	94.80	64.46
0784	Marble dust/ powder	cum	0.95	1000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.95	106.64	101.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				10950.21
	Cost of 1 cum				10950.21
	Say				10950.20

3.16 White cement mortar 1:3 (1 white cement : 3 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.357 cum. of white cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0368	White Cement	tonne	0.51	14000.00	7140.00
2209	Carriage of cement	tonne	0.51	94.80	48.35
0784	Marble dust/ powder	cum	1.07	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				8686.89
	Cost of 1 cum				8686.89
	Say				8686.90

3.17 White cement mortar 1:5 (1 white cement : 5 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.214 cum. of white cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0368	White Cement	tonne	0.31	14000.00	4340.00
2209	Carriage of cement	tonne	0.31	94.80	29.39
0784	Marble dust/ powder	cum	1.07	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	106.64	114.10
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.07	328.00	22.96
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				5867.93
	Cost of 1 cum				5867.93
	Say				5867.95

3.18 Mud mortar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for.				
	MATERIAL:				
0811	Mud (dry)	cum	1.08	60.00	64.80
	LABOUR:				
0114	Beldar	day	0.63	297.00	187.11
0101	Bhisti	day	0.315	328.00	103.32
9999	Sundries	L.S.	6.45	1.70	10.96
	TOTAL				366.19
	Cost of 1 cum				366.19
	Say				366.20

3.19 Mortar in lime , surkhi (50% red and 50% light yellow) and marble dust 1:1.5:0.5.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	(0.475 cum of lime putty=3.01 q of unslaked lime)				
1182	Surkhi	cum	0.7125	700.00	498.75
0773	Unslaked lime	quintal	3.01	300.00	903.00
0784	Marble dust/ powder	cum	0.24	1000.00	240.00
2268	Carriage of marble dust and/or marble chips	cum	0.24	106.64	25.59
2208	Carriage of lime	cum	3.01	106.64	320.99
	LABOUR:				
	for slaking lime, making lime putty, grinding and carrying				
0114	Beldar	day	0.90	297.00	267.30
0101	Bhisti	day	0.45	328.00	147.60
9999	As cost for running and upkeep of mortar mill	L.S.	10.35	1.70	17.60
9999	Sundries	L.S.	5.20	1.70	8.84
	TOTAL				2429.67
	Cost of 1 cum				2429.67
	Say				2429.65

SUB HEAD : 4.0

CONCRETE WORK

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level.

4.1.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1200.00	768.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.425cum)	tonne	0.61	5240.00	3196.40
2209	Carriage of cement	tonne	0.61	94.80	57.83
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				5709.16
	Add Water Charges @ 1%				57.09
	TOTAL				5766.25
	Add CPOH @ 15%				864.94
	Cost of 1 cum				6631.19
	Say				6631.20

4.1.2 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.2833 cum)	tonne	0.40	5240.00	2096.00
2209	Carriage of cement	tonne	0.40	94.80	37.92
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				4578.35
	Add Water Charges @ 1%				45.78
	TOTAL				4624.13
	Add CPOH @ 15%				693.62
	Cost of 1 cum				5317.75
	Say				5317.75

4.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1200.00	804.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	106.64	94.91
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2225 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				4237.37
	Add Water Charges @ 1%				42.37
	TOTAL				4279.74
	Add CPOH @ 15%				641.96
	Cost of 1 cum				4921.70
	Say				4921.70

4.1.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size 0.56 - (7.5% for voids i.e.) 0.04 = 0.52 cum	cum	0.52	1000.00	520.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1200.00	264.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1050.00	115.50
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.52	115.92	60.28
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.33	106.64	35.19
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2225 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				4101.10
	Add Water Charges @ 1%				41.01
	TOTAL				4142.11
	Add CPOH @ 15%				621.32
	Cost of 1 cum				4763.43
	Say				4763.45

4.1.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.70	1200.00	840.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.24	1050.00	252.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.94	106.64	100.24
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3795.56
	Add Water Charges @ 1%				37.96
	TOTAL				3833.52
	Add CPOH @ 15%				575.03
	Cost of 1 cum				4408.55
	Say				4408.55

4.1.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3642.26
	Add Water Charges @ 1%				36.42
	TOTAL				3678.68
	Add CPOH @ 15%				551.80
	Cost of 1 cum				4230.48
	Say				4230.50

4.1.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0983	Fine sand (zone IV)	cum	0.47	650.00	305.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3421.36
	Add Water Charges @ 1%				34.21
	TOTAL				3455.57
	Add CPOH @ 15%				518.34
	Cost of 1 cum				3973.91
	Say				3973.90

4.1.8 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.1175 cum)	tonne	0.17	5240.00	890.80
2209	Carriage of cement	tonne	0.17	94.80	16.12
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3375.52
	Add Water Charges @ 1%				33.76
	TOTAL				3409.28
	Add CPOH @ 15%				511.39
	Cost of 1 cum				3920.67
	Say				3920.65

4.1.9 1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0983	Fine sand (zone IV)	cum	0.47	650.00	305.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	106.64	50.12
0367	Portland Cement (0.1175 cum)	tonne	0.17	5240.00	890.80
2209	Carriage of cement	tonne	0.17	94.80	16.12
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3154.62
	Add Water Charges @ 1%				31.55
	TOTAL				3186.17
	Add CPOH @ 15%				477.93
	Cost of 1 cum				3664.10
	Say				3664.10

4.1.10 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.2225 cum)	tonne	0.13	5240.00	681.20
2209	Carriage of cement	tonne	0.13	94.80	12.32
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3162.12
	Add Water Charges @ 1%				31.62
	TOTAL				3193.74
	Add CPOH @ 15%				479.06
	Cost of 1 cum				3672.80
	Say				3672.80

4.1.11 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0983	Fine sand (zone IV)	cum	0.47	650.00	305.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	106.64	50.12
0367	Portland Cement (0.2225 cum)	tonne	0.13	5240.00	681.20
2209	Carriage of cement	tonne	0.13	94.80	12.32
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	8.97	1.70	15.25
	TOTAL				2933.49
	Add Water Charges @ 1%				29.33
	TOTAL				2962.82
	Add CPOH @ 15%				444.42
	Cost of 1 cum				3407.24
	Say				3407.25

4.1.12 1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.17	5240.00	890.80
2209	Carriage of cement	tonne	0.17	94.80	16.12
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				3278.21
	Add Water Charges @ 1%				32.78
	TOTAL				3310.99
	Add CPOH @ 15%				496.65
	Cost of 1 cum				3807.64
	Say				3807.65

4.1.13 1:2½:4: 11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.34	1120.00	380.80
2203	Carriage of coarse sand	cum	0.34	106.64	36.26
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.13	5240.00	681.20
2209	Carriage of cement	tonne	0.13	94.80	12.32
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	1.63	297.00	484.11
0101	Bhisti	day	0.70	328.00	229.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				3028.01
	Add Water Charges @ 1%				30.28
	TOTAL				3058.29
	Add CPOH @ 15%				458.74
	Cost of 1 cum				3517.03
	Say				3517.05

4.2 Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc. up to floor five level, excluding the cost of centering, shuttering and finishing.

4.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1200.00	768.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.425 cum)	tonne	0.61	5240.00	3196.40
2209	Carriage of cement	tonne	0.61	94.80	57.83
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	14.30	1.70	24.31
	Extra labour for lifting.material upto floor level = 0.75x2.5 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				6484.39
	Add Water Charges @ 1%				64.84
	TOTAL				6549.23
	Add CPOH @ 15%				982.38
	Cost of 1 cum				7531.61
	Say				7531.60

4.2.2 1:1½:3 (1 cement : 1½ coarse sand :3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.2833 cum)	tonne	0.40	5240.00	2096.00
2209	Carriage of cement	tonne	0.40	94.80	37.92
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	14.30	1.70	24.31
0115	Coolie	day	1.88	297.00	558.36
	Extra labour for lifting.material upto floor level = 0.75x2.5 = 1.88				
	TOTAL				5353.58
	Add Water Charges @ 1%				53.54
	TOTAL				5407.12
	Add CPOH @ 15%				811.07
	Cost of 1 cum				6218.19
	Say				6218.20

4.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1200.00	804.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	106.64	94.91
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2833 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	14.30	1.70	24.31
0115	Coolie	day	1.88	297.00	558.36
	Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88				
	TOTAL				5012.60
	Add Water Charges @ 1%				50.13
	TOTAL				5062.73
	Add CPOH @ 15%				759.41
	Cost of 1 cum				5822.14
	Say				5822.15

4.2.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.56 cum-7.5% for voids i.e. 0.04 = 0.52 cum)	cum	0.52	1000.00	520.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1200.00	264.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1050.00	115.50
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.52	115.92	60.28
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.33	106.64	35.19
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2225 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	13.52	1.70	22.98
0115	Coolie	day	1.88	297.00	558.36
	Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88				
	TOTAL				4876.33
	Add Water Charges @ 1%				48.76
	TOTAL				4925.09
	Add CPOH @ 15%				738.76
	Cost of 1 cum				5663.85
	Say				5663.85

4.2.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.70	1200.00	840.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.24	1050.00	252.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.94	106.64	100.24
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	13.52	1.70	22.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88	day	1.88	297.00	558.36
	TOTAL				4570.79
	Add Water Charges @ 1%				45.71
	TOTAL				4616.50
	Add CPOH @ 15%				692.48
	Cost of 1 cum				5308.98
	Say				5309.00

4.2.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	13.52	1.70	22.98
0115	Coolie Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88	day	1.88	297.00	558.36
	TOTAL				4417.49
	Add Water Charges @ 1%				44.17
	TOTAL				4461.66
	Add CPOH @ 15%				669.25
	Cost of 1 cum				5130.91
	Say				5130.90

4.2.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0983	Fine sand (zone IV) cum 0.47 650.00 305.50				
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	106.64	50.12
0367	Portland Cement (0.15674 cum)	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	13.52	1.70	22.98
0115	Coolie	day	1.88	297.00	558.36
	Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88				
	TOTAL				4196.59
	Add Water Charges @ 1%				41.97
	TOTAL				4238.56
	Add CPOH @ 15%				635.78
	Cost of 1 cum				4874.34
	Say				4874.35

4.2.8 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement	tonne	0.13	5240.00	681.20
2209	Carriage of cement	tonne	0.13	94.80	12.32
	LABOUR:				
0114	Beldar	day	0.90	297.00	267.30
0115	Coolie	day	0.78	297.00	231.66
0101	Bhisti	day	0.70	328.00	229.60
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Scaffolding	L.S.	114.40	1.70	194.48
9999	Sundries	L.S.	14.30	1.70	24.31
	Extra labour for lifting material up to floor five level = 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				3932.74
	Add Water Charges @ 1%				39.33
	TOTAL				3972.07
	Add CPOH @ 15%				595.81
	Cost of 1 cum				4567.88
	Say				4567.90

4.3 Centering and shuttering including strutting, propping etc. and removal of form work for.

4.3.1 Foundations, footings, bases for columns.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for footing size 2.7mx2.7mx l.00m Contact area = 10.80 sqm.				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.34	1050.00	357.00
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = 4x0.85/40 = 0.085				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1160.00	197.20
	Qty taken for cost of using once = 8x0.85/40= 0.17				
7328	Double clip (bridge clip)	each	0.34	97.00	32.98
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7329	Single clip	each	0.17	77.00	13.09
	Qty taken for cost of using once = 8x0.85/40 = 0.17				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7330	M.S. tube 40 mm dia 4x2.7m = 10.8m Qty taken for cost of using once = 10.8x0.85/40 = 0.2295	metre	0.2295	280.00	64.26
9999	Assembly nuts & bolts	L.S.	22.10	1.70	37.57
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	0.75	393.00	294.75
0114	Beldar	day	1.50	297.00	445.50
9999	Shuttering oil	L.S.	52.00	1.70	88.40
9999	Sundries L.S. 26 1.70 44.20				
	TOTAL				1733.05
	Add Water Charges @ 1%				17.33
	TOTAL				1750.38
	Add CPOH @ 15%				262.56
	Cost of 10.8 sqm				2012.94
	Cost of 1 sqm				186.38
	Say				186.40

4.3.2 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm. MATERIAL: Assuming shuttering material will be unseviceable after use of times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	1050.00	535.50
7327	100 mm channel shoulder 2.5 m long 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1160.00	197.20
7328	Double clip (bridge clip) 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	97.00	49.47
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	280.00	190.40
9999	Nuts & bolts	L.S.	27.62	1.70	46.95
9999	Carriage	L.S.	78.00	1.70	132.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0116	Fitter (grade 1)	day	3.50	393.00	1375.50
0114	Beldar	day	6.00	297.00	1782.00
9999	Shuttering oil	L.S.	78.00	1.70	132.60
9999	Sundries	L.S.	52.00	1.70	88.40
	TOTAL				4550.26
	Add Water Charges @ 1%				45.50
	TOTAL				4595.76
	Add CPOH @ 15%				689.36
	Cost of 15.8 sqm				5285.12
	Cost of 1 sqm				334.50
	Say				334.50

4.3.3 Columns, piers, abutments, pillars, posts and struts.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Size of column 450x 450mm and 2.5m high Area of contact = 4x0.45x2.5 = 4.5 sqm.				
	MATERIAL:				
	Assuming shuttering will become unserviceable after use of 40 times				
	Add maintenance charges @ 10% of cost of Material				
	Less salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1040.00	176.80
7332	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	340.00	28.90
7333	Column clamp 450x1070 mm Qty taken for cost of using once = 5x0.85/40 = 0.1063	each	0.1063	1220.00	129.69
7334	Prop 2 m (2-3.5 m) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	830.00	70.55
9999	Assembly nuts & bolts	L.S.	27.62	1.70	46.95
9999	Carriage	L.S.	52.00	1.70	88.40
	LABOUR:				
0116	Fitter (grade 1)	day	1.00	393.00	393.00
0114	Beldar	day	2.00	297.00	594.00
9999	Shuttering oil	L.S.	39.00	1.70	66.30
9999	Carriage	L.S.	26.00	1.70	44.20
	TOTAL				1638.79
	Add Water Charges @ 1%				16.39
	TOTAL				1655.18
	Add CPOH @ 15%				248.28
	Cost of 4.5 sqm				1903.46
	Cost of 1 sqm				422.99
	Say				423.00

4.4 Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.

4.4.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for kerb : 100m long 20cm deep and 30cm wide. 100m x 30m x 0.20m = 6.00 cum.				
	Cement Concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	6.00	4921.70	29530.20 A
	TOTAL				29530.20
	Cost of 6 cum				29530.20
	Cost of 1 cum				4921.70
	Say				4921.70

4.4.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for kerb : 100m long 20cm deep and 30cm wide. 100m x 30m x 0.20m = 6.00 cum.				
	100 x 30 x 0.20 = 6.00 cum				
	Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	6.00	4408.55	26451.30 A
	TOTAL				26451.30
	Cost of 6 cum				26451.30
	Cost of 1 cum				4408.55
	Say				4408.55

4.5 Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.

4.5.1 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum.				
	MATERIAL:				
	Cement concrete 1:1.5:3				
4.1.2	Rate as per Item Number 4.1.2 of SH: Concrete work	cum	0.45	5317.75	2392.99 A
	Extra labour for lifting				
	0.45 x 0.45 x 2.5 = 0.51				
0115	Coolie	day	0.51	297.00	151.47
	Centering and shuttering				
	(1) Mould				
	(i) Plate 3mm thick: (2x1x0.15)+(2x0.15x0.20) = 0.36 sqm. @ 23.55kg/m2 = 8.48 kg.				
	(ii) Flat 10x5mm: 4x1.0 = 4.0m				
	8x0.2 = 1.6m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	4x0.15 = 0.60m Handle 2x0.25 = 0.5m =6.70 m @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.112x 0.75/40 = 0.0021 qtl = 0.21 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.21	66.85	14.04 A
	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	615.40	61.54 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10cum Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	1.70	61.71
	TOTAL				2694.72
	Add Water Charges @ 1% except on A i.e on (2,694.72 - 2,481.54 =) 213.18				2.13
	TOTAL				2696.85
	Add CPOH @ 15% except on A i.e on (2,696.85 - 2,481.54 =) 215.31				32.30
	Cost of 0.45 cum				2729.15
	Cost of 1 cum				6064.78
	Say				6064.80

4.5.2 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum. MATERIAL: Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.45	4921.70	2214.76 A
	Centering and shuttering (1) Mould (i) Plate 3mm thick: (2x1x0.15)+(2x0.15x 0.20) = 0.36 sqm. @ 23.55kg/m2 = 8.48 kg. (ii) Flat 10x5mm: 4x1.0 = 4.0m 8x0.2 = 1.6m 4x0.15 = 0.60m Handle 2x0.25 = 0.5m =6.70 m @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.112x 0.75/40 = 0.0021 qtl = 0.21 kg Extra labour for lifting 0.45 x 0.45 x 2.5 = 0.51				
0115	Coolie	day	0.51	297.00	151.47
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm	kg	0.21	66.85	14.04 A
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10cum Qty taken for cost of using once = 0.100/40 = 0.0025 cum	sqm	0.10	615.40	61.54 A
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	1.70	61.71
	TOTAL				2516.49
	Add Water Charges @ 1% except on A i.e on (2,516.49 - 2,303.31 =) 213.18				2.13
	TOTAL				2518.62
	Add CPOH @ 15% except on A i.e on (2,518.62 - 2,303.31 =) 215.31				32.30
	Cost of 0.45 cum				2550.92
	Cost of 1 cum				5668.71
	Say				5668.70

4.5.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum. MATERIAL: Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work Extra labour for lifting 0.45 x 0.45 x 2.5 = 0.51	cum	0.45	4408.55	1983.85 A
0115	Coolie Centering and shuttering (1) Mould (i) Plate 3mm thick (2x1x0.15)+(2x0.15x0.20) = 0.36 sqm. @ 23.55kg/m2 = 8.48 kg.	day	0.51	297.00	151.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) Flat 10x5mm 4x1.0 = 4.0m 8x0.2 = 1.6m 4x0.15 = 0.60m Handle 2x0.25 = 0.5m =6.70m@ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.112x0.75/40 = 0.0021 qtl = 0.21 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.21	66.85	14.04 A
	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar1:6 1x2.0x2.0m = 4 sqm Qty taken for cost of using once = 4/40 =0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	615.40	61.54 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00 x2.00x0.025 = 0.1 Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	1.70	61.71
	TOTAL 2285.58				
	Add Water Charges @ 1% except on A i.e on (2,285.58 - 2,072.40 =) 213.18				2.13
	TOTAL				2287.71
	Add CPOH @ 15% except on A i.e on (2,287.71 - 2,072.40 =) 215.31				32.30
	Cost of 0.45 cum				2320.01
	Cost of 1 cum				5155.58
	Say				5155.60

4.6 Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), including the cost of required centering, shuttering complete.

4.6.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 25 no kerbs, 40x30x 20cm =25 no x 0.40m x 0.30m x 0.20m = 0.6 cum. MATERIAL: Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.60	4805.00	2953.02 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Centering and shuttering (1) Mould (i) Plate 3mm thick 0.28 sqm. @ 23.55kg/m2 = 6.59 kg. (ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg. = 6.79kg. or 0.068 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.1275	66.85	8.52 A
	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times. (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	615.40	61.54 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10 Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
9999	Mortar and labour for finishing	L.S.	30.54	1.70	51.92
	TOTAL				3087.97
	Add Water Charges @ 1% except on A i.e on (3,087.97 - 3,036.05 =) 51.92				0.52
	TOTAL				3088.49
	Add CPOH @ 15% except on A i.e on (3,088.49 - 3,036.05 =) 52.44				7.87
	Cost of 0.6 cum				3096.36
	Cost of 1 cum				5160.60
	Say				5160.60

4.7 Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.

4.7.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 25 no blocks, 40x20x 30cm =25 no x 0.40m x 0.30m x 0.20m = 0.60 cum. MATERIAL: Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.60	4921.70	2953.02 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Centering and shuttering (1) Mould (i) Plate 3mm thick 0.28 sqm. @ 23.55kg/m2 = 6.59 kg. (ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg. = 6.79kg. or 0.068 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.1275	66.85	8.52 A
	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	615.40	61.54 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10 Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
	Mortar 1:3 for Fixing 0.202/100x25=0.051				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.051	4347.70	221.73
	Extra for Labour for lifting 27/100x25=0.675 or 0.68				
0115	Coolie	day	0.68	297.00	201.96
	Labour for hoisting and setting in position				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0114	Beldar	day	3.60	297.00	1069.20
	Finishing 25x2(0.4x0.3) =6.0 sqm.				
	TOTAL				4764.74
	Add Water Charges @ 1% except on A i.e on (4,764.74 - 3,036.05 =) 1,728.69				17.29
	TOTAL				4782.03
	Add CPOH @ 15% except on A i.e on (4,782.03 - 3,036.05 =) 1,745.98				261.90
	Cost of 0.6 cum				5043.93
	Cost of 1 cum				8406.55
	Say				8406.55

4.7.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 25 no blocks, 40x20x 30cm =25 no x 0.40m x 0.30m x 0.20m = 0.6 cum.				
	MATERIAL:				
	Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.60	4408.55	2645.13 A
	Mortar for fixing cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.051	4347.70	221.73
	Centering and shuttering				
	(1) Mould				
	(i) Plate 3mm thick.				
	0.28 sqm. @ 23.55kg/m2 = 6.59 kg.				
	(ii) Flat 10x5mm Handle				
	2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.				
	= 6.79kg. or 0.068 qtl.				
	= 6.79kg. or 0.068 qtl.				
	Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.				
	Qty taken for cost of using once =				
	0.068x0.75/40 = 0.001275 qtl = 0.1275 kg	kg	0.1275	66.85	8.52 A
10.1	Rate as per Item Number 10.1 of SH: Steel work				
	(2) Moulding Platform				
	Assuming platform will become unserviceable after use of 40 times,				
	(i) Brick on edge flooring cement mortar 1:6				
	1x2.0x2.0m = 4 sqm.				
	Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	615.40	61.54 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement				
	2.00x2.00x0.025 = 0.100				
	Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	5188.60	12.97 A
	LABOUR:				
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.68	297.00	201.96
	Labour for hoisting and setting in position				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0114	Beldar	day	3.60	297.00	1069.20
	TOTAL				4456.85
	Add Water Charges @ 1% except on A i.e on (4,456.85 - 2,728.16 =) 1,728.69				17.29
	TOTAL				4474.14
	Add CPOH @ 15% except on A i.e on (4,474.14 - 2,728.16 =) 1,745.98				261.90
	Cost of 0.6 cum				4736.04
	Cost of 1 cum				7893.40
	Say				7893.40

4.8 Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.

4.8.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mmnominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm finished contents = 1mx0.5mx0.1m = 0.05cum.				
	MATERIAL:				
	Cement concrete 1:2:4				
	Net qty = 0.05 [6x0.5x{2x1/2(0.05+7)}x0.074] = 0.023cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.023	4921.70	113.20 A
9999	Centering and shuttering issncluding T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.91	1.70	45.75
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.056	297.00	16.63
	Labour for hoisting and setting in position				
0123	Mason (brick layer) 1 st class	day	0.05	393.00	19.65
0114	Beldar	day	0.30	297.00	89.10
	Cement mortar 1:2 for fixing				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	5107.40	10.21
	TOTAL 294.54				
	Add Water Charges @ 1% except on A i.e on (294.54 - 113.20 =) 181.34				1.81
	TOTAL 296.35				
	Add CPOH @ 15% except on A i.e on (296.35 - 113.20 =) 183.15				27.47
	Cost of 0.05 cum				323.82
	Cost of 1 cum				6476.40
	Say				6476.40

4.8.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm finished contents = lmx0.5mx0.lm = 0.05cum.				
	MATERIAL:				
	Cement concrete 1:3:6				
	Net qty = 0.05 [6x0.5x{2xl/2(0.05+7)}x6.074] = 0.023cum				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.023	4408.55	101.40 A
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.91	1.70	45.75
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.056	297.00	16.63
	Labour for hoisting and setting in position				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0122	Mason (for plaster of paris work) 1 st class	day	0.05	393.00	19.65
0114	Beldar	day	0.30	297.00	89.10
	Mortar for fixing cement mortar 1:2				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	5107.40	10.21
	TOTAL				282.74
	Add Water Charges @ 1% except on A i.e on (282.74 - 101.40 =) 181.34				1.81
	TOTAL				284.55
	Add CPOH @ 15% except on A i.e on (284.55 - 101.40 =) 183.15				27.47
	Cost of 0.05 cum				312.02
	Cost of 1 cum				6240.40
	Say				6240.40

4.9 Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape, including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with 150x150x6 mm M.S. plate welded at bottom and embedded 150 mm in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including necessary excavation of size 250x250x450 mm deep for the same in bitumen/concrete pavement at specified spacing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one bollard.				
	MATERIAL:				
	Cement concrete 1:2:4				
	1/4x0.125x0.60 = 0.007cum				
5.1.3	Rate as per Item Number 5.1.3 of SH: Reinforced cement concrete work	cum	0.007	5156.20	36.09 A
	Centering and shuttering				
	3.14x(0.125)x0.60 = 0.24 sqm				
5.9.1	Rate as per Item Number 5.9.1 of SH: Reinforced cement concrete work	sqm	0.24	186.40	44.74 A
	M.S. pipes (medium class)				
	50 mm dia sleeve =1x0.30x5.10=1.53 kg				
	40 mm dia pipe =1x0.45x3.61 =1.62 kg				
	M.S. plate 3mm thick =(0.15x0.15)x 23.55 =0.53 kg				
	Total =3.68 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work Excavation	kg	3.68	66.85	246.01 A
	0.25x0.25x0.45 = 0.03 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work Cement concrete 1:3:6	cum	0.03	148.25	4.45 A
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.03	4408.55	132.26 A
	6 mm rendering (1:3) (0.24+0.01) = 0.25 sqm				
5.23	Rate as per Item Number 5.23 of SH: Reinforced cement concrete work	sqm	0.25	120.35	30.09 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage and fixing charges	L.S.	13.00	1.70	22.10
	TOTAL				515.74
	Add Water Charges @ 1% except on A i.e on (515.74 - 493.64 =) 22.10				0.22
	TOTAL				515.96
	Add CPOH @ 15% except on A i.e on (515.96 - 493.64 =) 22.32				3.35
	Cost of each				519.31
	Say				519.30

4.10 Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)				
	10x0.040 = 0.40 cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.40	4921.70	1968.68 A
	Add deduct for difference of cost between 20mm size and 12.5mm size				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	-0.67	1200.00	-804.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.67	1050.00	703.50
	Add for delay:				
0123	Mason (brick layer) 1 st class	day	0.40	393.00	157.20
0124	Mason (brick layer) 2nd class	day	0.40	361.00	144.40
9999	Sundries (Form work etc.)	L.S.	1.95	1.70	3.32
	TOTAL				2173.10
	Add Water Charges @ 1% except on A i.e on (2,173.10 - 1,968.68 =) 204.42				2.04
	TOTAL				2175.14
	Add CPOH @ 15% except on A i.e on (2,175.14 - 1,968.68 =) 206.46				30.97
	Cost of 10 sqm				2206.11
	Cost of 1 sqm				220.61
	Say				220.60

4.11 Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Cement concrete 1:2:4 = 10x0.05 = 0.50 cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.50	4921.70	2460.85 A
	Add for delay :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.40	393.00	157.20
0124	Mason (brick layer) 2nd class	day	0.40	361.00	144.40
9999	Sundries (Form work etc.)	L.S.	13.52	1.70	22.98
	TOTAL				2785.43
	Add Water Charges @ 1% except on A i.e on (2,785.43 - 2,460.85 =) 324.58				3.25
	TOTAL				2788.68
	Add CPOH @ 15% except on A i.e on (2,788.68 - 2,460.85 =) 327.83				49.17
	Cost of 10 sqm				2837.85
	Cost of 1 sqm				283.79
	Say				283.80

4.12 Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for per bag of 50 kg. of cement.				
	MATERIAL:				
	Approved water proofing'materials according to the recommended proportions				
1213	Water proofing materials	kilogram	1.00	32.00	32.00
9999	Carriage of water proofing material and labour for mixing etc.	L.S.	3.64	1.70	6.19
	TOTAL				38.19
	Add Water Charges @ 1%				0.38
	TOTAL				38.57
	Add CPOH @ 15%				5.79
	Cost per 50kg cement				44.36
	Say				44.35

4.13 Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.017	40000.00	680.00
0771	Kerosene oil	litre	1.23	45.00	55.35
	Fuel for heating				
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	106.64	1.81
	LABOUR:				
	Cleaning surface and applying kerosene oil				
0114	Beldar	day	0.12	297.00	35.64
	Heating the material-				
0115	Coolie	day	0.07	297.00	20.79
	Spreading hot tar over damp proof course				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0131	Painter	day	0.20	361.00	72.20
9999	Sundries (Carriage of Kerosene, steam coal, brushes, T&P etc.)	L.S.	33.15	1.70	56.36
	TOTAL				936.15
	Add Water Charges @ 1%				9.36
	TOTAL				945.51
	Add CPOH @ 15%				141.83
	Cost of 10 sqm				1087.34
	Cost of 1 sqm				108.73
	Say				108.75

4.14 Extra for concrete work in superstructure above floor V level for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one cum.				
	Extra labour element required for lifting of materials (0.75x2.00 = 1.50)				
0115	Coolie	day	1.50	297.00	445.50
	TOTAL				445.50
	Add Water Charges @ 1%				4.46
	TOTAL				449.96
	Add CPOH @ 15%				67.49
	Cost of 1 cum				517.45
	Say				517.45

4.15 Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.

Note for item No. 4.15 :- The quantity will be calculated by multiplying the depth measured from the subsoil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed corrrect to 0.10 m. 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 14 cum per 0.3m depth.				
	Quantity of concrete = 14 cum.				
	pumping hours = 3 hrs. or 0.375 day.				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	550.00	206.25
0114	Beldar	day	4.00	297.00	1188.00
	for cleaning slush				
	TOTAL				1394.25
	Add Water Charges @ 1%				13.94
	TOTAL				1408.19
	Add CPOH @ 15%				211.23
	Cost of 14 cum per 0.3m depth				1619.42
	Cost of 1 cum per metre depth				385.58
	Say				385.60

4.16 Extra for laying concrete in or under foul positions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Extra labour due to slow progress-				
0123	Mason (brick layer) 1 st class	day	0.02	393.00	7.86
0124	Mason (brick layer) 2nd class	day	0.02	361.00	7.22
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	0.15	297.00	44.55
	TOTAL				133.88
	Add Water Charges @ 1%				1.34
	TOTAL				135.22
	Add CPOH @ 15%				20.28
	Cost of 1 cum				155.50
	Say				155.50

4.17 Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	0.75	510.00	382.50
2260	Carriage of brick aggregate	cum	0.75	115.92	86.94
0983	Fine sand (zone IV)	cum	0.06	650.00	39.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.06	106.64	6.40
	LABOUR:				
	Dressing the gound including cutting and filling upto 15cm				
0114	Beldar	day	0.16	297.00	47.52
0115	Coolie	day	0.11	297.00	32.67
	MATERIAL:				
	For C.C 1:3:6				
	Cement concrete 1:3:6 Qty. of cement concrete 1:3:6 on 10 sqm. area = 0.5cum.				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.35	1200.00	420.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.12	1050.00	126.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.47	106.64	50.12
0982	Coarse sand (zone III)	cum	0.23	1120.00	257.60
2203	Carriage of coarse sand	cum	0.23	106.64	24.53
0367	Portland Cement	tonne	0.11	5240.00	576.40
2209	Carriage of cement	tonne	0.11	94.80	10.43
	LABOUR:				
	For C.C 1:3:6				
0114	Beldar	day	1.00	297.00	297.00
0123	Mason (brick layer) 1 st class	day	0.05	393.00	19.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.33	328.00	108.24
9999	Hire and running charges of mechanical mixer	L.S.	13.39	1.70	22.76
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0155	Mason (average)	day	0.27	377.00	101.79
0114	Beldar	day	1.08	297.00	320.76
0115	Coolie	day	1.08	297.00	320.76
	TOTAL				3262.56
	Add Water Charges @ 1%				32.63
	TOTAL				3295.19
	Add CPOH @ 15%				494.28
	Cost of 10 sqm				3789.47
	Cost of 1 sqm				378.95
	Say				378.95

4.18 Extra for addition of synthetic polyester triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/ Flooring /water retaining structures by using 125 gms of synthetic polyester triangular fibre for 50 kgs cement used as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for per bag of 50 kg. of cement used in concrete.				
	MATERIAL:				
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 including labour for mixing.	kg	0.125	365.00	45.62
	TOTAL				45.62
	Add Water Charges @ 1%				0.46
	TOTAL				46.08
	Add CPOH @ 15%				6.91
	Cost per bag of 50kg of cement				52.99
	Say				53.00

4.19 Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note :

1) Excess/less cement used than specified in this item is payable/ recoverable separately.

2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.

4.19.1 All works upto plinth level.

4.19.1.1 M-15 grade plain cement concrete (cement content considered@240 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.24	5240.00	1257.60
2209	Carriage of cement	tonne	0.24	94.80	22.75
7318	Plasticizer / super plasticizer	kilogram	1.20	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				4640.91
	Add Water Charges @ 1%				46.41
	TOTAL				4687.32
	Add CPOH @ 15%				703.10
	Cost of 1 cum				5390.42
	Say				5390.40

4.19.1.2 M-10 grade plain cement concrete (cement content considered@220 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
7318	Plasticizer / super plasticizer	kilogram	1.10	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				4530.42
	Add Water Charges @ 1%				45.30
	TOTAL				4575.72
	Add CPOH @ 15%				686.36
	Cost of 1 cum				5262.08
	Say				5262.10

4.19.2 All works above plinth and upto floor V level.

4.19.2.1 M-15 grade plain cement concrete. (cement content considered@240 kg /cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.24	5240.00	1257.60
2209	Carriage of cement	tonne	0.24	94.80	22.75
7318	Plasticizer / super plasticizer	kilogram	1.20	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting.material upto floor five level = 0.75x2.50 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5049.27
	Add Water Charges @ 1%				50.49
	TOTAL				5099.76
	Add CPOH @ 15%				764.96
	Cost of 1 cum				5864.72
	Say				5864.70

4.19.2.2 M-10 grade plain cement concrete (cement content considered@220 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
7318	Plasticizer / super plasticizer	kilogram	1.10	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting.material upto floor five level = 0.75x2.50 = 1.88				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				4938.78
	Add Water Charges @ 1%				49.39
	TOTAL				4988.17
	Add CPOH @ 15%				748.23
	Cost of 1 cum				5736.40
	Say				5736.40

4.20 Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note :1) Excess / less cement used than specified in this item is payble / recoverable separately.

4.20.1 All works upto plinth level.

4.20.1.1 M-15 grade plain cement concrete (cement content considered@240 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement	tonne	0.24	5240.00	1257.60
2209	Carriage of cement	tonne	0.24	94.80	22.75
7318	Plasticizer / super plasticizer	kilogram	1.20	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				4739.55
	Add Water Charges @ 1%				47.40
	TOTAL				4786.95
	Add CPOH @ 15%				718.04
	Cost of 1 cum				5504.99
	Say				5505.00

4.20.1.2 M-10 grade plain cement concrete (cement content considered@220 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1000.00	650.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
7318	Plasticizer / super plasticizer	kilogram	1.10	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				4629.06
	Add Water Charges @ 1%				46.29
	TOTAL				4675.35
	Add CPOH @ 15%				701.30
	Cost of 1 cum				5376.65
	Say				5376.65

4.20.2 All works above plinth and upto floor V level.

4.20.2.1 M-15 grade plain cement concrete (cement content considered@240 kg /cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement	tonne	0.24	5240.00	1257.60
2209	Carriage of cement	tonne	0.24	94.80	22.75
7318	Plasticizer / super plasticizer	kilogram	1.20	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting.material upto floor five level = 0.75x2.50 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5147.91
	Add Water Charges @ 1%				51.48
	TOTAL				5199.39
	Add CPOH @ 15%				779.91
	Cost of 1 cum				5979.30
	Say				5979.30

4.20.2.2 M-10 grade plain cement concrete (cement content considered@220 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.47	1120.00	526.40
2203	Carriage of coarse sand	cum	0.47	106.64	50.12
0367	Portland Cement	tonne	0.22	5240.00	1152.80
2209	Carriage of cement	tonne	0.22	94.80	20.86
7318	Plasticizer / super plasticizer	kilogram	1.10	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting.material upto floor five level = 0.75x2.50 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5037.42
	Add Water Charges @ 1%				50.37
	TOTAL				5087.79
	Add CPOH @ 15%				763.17
	Cost of 1 cum				5850.96
	Say				5850.95

SUB HEAD : 5.0

REINFORCED CEMENT CONCRETE WORK

5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level.

5.1.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1200.00	768.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.425 cum)	tonne	0.61	5240.00	3196.40
2209	Carriage of cement	tonne	0.61	94.80	57.83
	LABOUR:				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.3	1.70	24.31
	TOTAL				5911.04
	Add Water Charges @ 1%				59.11
	TOTAL				5970.15
	Add CPOH @ 15%				895.52
	Cost of 1 cum				6865.67
	Say				6865.65

5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement (0.2833 cum)	tonne	0.40	5240.00	2096.00
2209	Carriage of cement	tonne	0.40	94.80	37.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				4780.23
	Add Water Charges @ 1%				47.80
	TOTAL				4828.03
	Add CPOH @ 15%				724.20
	Cost of 1 cum				5552.23
	Say				5552.25

5.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1200.00	804.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	106.64	94.91
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2225 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	14.30	1.70	24.31
	TOTAL				4439.25
	Add Water Charges @ 1%				44.39
	TOTAL				4483.64
	Add CPOH @ 15%				672.55
	Cost of 1 cum				5156.19
	Say				5156.20

5.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement.

5.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.18 cum. MATERIAL: Counter fort Retaining wall 4.5m high and 6m long. Base- 1x6x1.5x0.2 = 1.80 cum. Heel - 1x6x0.3x0.2 = 0.36 cum. 1x6x0.3x0.3 = 0.54 cum. Stem - 1x6x4.3x0.2 (Avg.) = 5.16 cum. Triangular counterfort - 2x1/2x4.4x1.5x0.2 = 1.32 cum. Total quantity for details of cost = 9.18 cum. MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.8752	1200.00	7050.24
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1.9278	1050.00	2024.19
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	106.64	832.11
0982	Coarse sand (zone III)	cum	3.9015	1120.00	4369.68
2203	Carriage of coarse sand	cum	3.9015	106.64	416.06
0367	Portland Cement (0.425 cum)	tonne	5.5998	5240.00	29342.95
2209	Carriage of cement	tonne	5.5998	94.80	530.86
	LABOUR:				
0114	Beldar	day	11.29	297.00	3353.13
0115	Coolie	day	7.53	297.00	2236.41
0101	Bhisti	day	8.26	328.00	2709.28
0123	Mason (brick layer) 1 st class	day	0.92	393.00	361.56
0124	Mason (brick layer) 2nd class	day	0.92	361.00	332.12
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	325.00	208.00
9999	Sundries	L.S.	131.82	1.70	224.09
9999	Scaffolding	L.S.	420.03	1.70	714.05
	Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5				
0115	Coolie	day	17.20	297.00	5108.40
	TOTAL				60325.13
	Add Water Charges @ 1%				603.25
	TOTAL				60928.38
	Add CPOH @ 15%				9139.26
	Cost of 9.18 cum				70067.64
	Cost of 1 cum				7632.64
	Say				7632.65

5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.18 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.2326	1200.00	6279.12
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.5704	1050.00	2698.92
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	106.64	832.11
0982	Coarse sand (zone III)	cum	3.9015	1120.00	4369.68
2203	Carriage of coarse sand	cum	3.9015	106.64	416.06
0367	Portland Cement (0.2833 cum)	tonne	3.672	5240.00	19241.28
2209	Carriage of cement	tonne	3.672	94.80	348.11
	LABOUR:				
0114	Beldar	day	11.29	297.00	3353.13
0115	Coolie	day	7.53	297.00	2236.41
0101	Bhisti	day	8.26	328.00	2709.28
0123	Mason (brick layer) 1 st class	day	0.92	393.00	361.56
0124	Mason (brick layer) 2nd class	day	0.92	361.00	332.12
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	325.00	208.00
9999	Sundries	L.S.	131.82	1.70	224.09
9999	Scaffolding	L.S.	420.03	1.70	714.05
	Extra labour for lifting of material upto floor V level:				
	0.75x9.18x2.5				
0115	Coolie	day	17.20	297.00	5108.40
	TOTAL				49944.32
	Add Water Charges @ 1%				499.44
	TOTAL				50443.76
	Add CPOH @ 15%				7566.56
	Cost of 9.18 cum				58010.32
	Cost of 1 cum				6319.21
	Say				6319.20

5.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.18 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	6.1506	1200.00	7380.72
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.0196	1050.00	2120.58
2202	Carriage of stone aggregate below 40 mm nominal size	cum	8.1702	106.64	871.27
0982	Coarse sand (zone III)	cum	4.0851	1120.00	4575.31
2203	Carriage of coarse sand	cum	4.0851	106.64	435.64
0367	Portland Cement (0.02225 cum)	tonne	2.9376	5240.00	15393.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	2.9376	94.80	278.48
	LABOUR:				
0114	Beldar	day	11.29	297.00	3353.13
0115	Coolie	day	7.53	297.00	2236.41
0101	Bhisti	day	8.26	328.00	2709.28
0123	Mason (brick layer) 1 st class	day	0.92	393.00	361.56
0124	Mason (brick layer) 2nd class	day	0.92	361.00	332.12
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	325.00	208.00
9999	Sundries	L.S.	131.82	1.70	224.09
9999	Scaffolding	L.S.	420.03	1.70	714.05
	Extra labour for lifting of material upto floor V level:				
	0.75x9.18x2.5				
0115	Coolie	day	17.20	297.00	5108.40
	TOTAL				46814.06
	Add Water Charges @ 1%				468.14
	TOTAL				47282.20
	Add CPOH @ 15%				7092.33
	Cost of 9.18 cum				54374.53
	Cost of 1 cum				5923.15
	Say				5923.15

5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1200.00	804.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	106.64	94.91
0982	Coarse sand (zone III)	cum	0.445	1120.00	498.40
2203	Carriage of coarse sand	cum	0.445	106.64	47.45
0367	Portland Cement (0.2225 cum)	tonne	0.32	5240.00	1676.80
2209	Carriage of cement	tonne	0.32	94.80	30.34
	LABOUR:				
0155	Mason (average)	day	0.24	377.00	90.48
0114	Beldar	day	2.75	297.00	816.75
0101	Bhisti	day	0.90	328.00	295.20
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.08	800.00	64.00
0012	Vibrator (Needle type 40 mm)	day	0.08	325.00	26.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	14.30	1.70	24.31
	Extra labour for lifting material upto floor V level: Coolie (2.5x0.75)				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5258.00
	Add Water Charges @ 1%				52.58
	TOTAL				5310.58
	Add CPOH @ 15%				796.59
	Cost of 1 cum				6107.17
	Say				6107.15

5.4 Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Cement concrete 1:2:4				
4.4.1	Rate as per Item Number 4.4.1 of SH: Concrete work	cum	1.00	4921.70	4921.70 A
	LABOUR:				
	Extra labour for laying CC in RCC work				
0114	Beldar	day	0.10	297.00	29.70
0101	Bhisti	day	0.20	328.00	65.60
0123	Mason (brick layer) 1 st class	day	0.04	393.00	15.72
0124	Mason (brick layer) 2nd class	day	0.04	361.00	14.44
0128	Mate	day	0.04	328.00	13.12
	Extra labour for lifting material upto floor V level: Coolie (1.5x0.75)				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5618.64
	Add Water Charges @ 1% except on A i.e on (5,618.64 - 4,921.70 =) 696.94				6.97
	TOTAL				5625.61
	Add CPOH @ 15% except on A i.e on (5,625.61 - 4,921.70 =) 703.91				105.59
	Cost of 1 cum				5731.20
	Say				5731.20

5.5 Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 26.73cum for semicircular arch 6m clear span and 9m long and 30cm thick. Cement concrete 1:2:4 = 1x0.50x3.14x6.30x9.00x0.30 = 26.73cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	17.9091	1200.00	21490.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	5.8806	1050.00	6174.63
2202	Carriage of stone aggregate below 40 mm nominal size	cum	23.7897	106.64	2536.93
0982	Coarse sand (zone III)	cum	11.8948	1120.00	13322.18
2203	Carriage of coarse sand	cum	11.8948	106.64	1268.46
0367	Portland Cement (0.2225 cum)	tonne	8.5536	5240.00	44820.86
2209	Carriage of cement	tonne	8.5536	94.80	810.88
	LABOUR:				
0155	Mason (average)	day	6.42	377.00	2420.34
0114	Beldar	day	73.51	297.00	21832.47
0101	Bhisti	day	24.06	328.00	7891.68
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	2.14	800.00	1712.00
0012	Vibrator (Needle type 40 mm)	day	2.14	325.00	695.50
9999	Sundries	L.S.	401.89	1.70	683.21
	Extra for laying CC over curved surfaces				
0123	Mason (brick layer) 1 st class	day	5.00	393.00	1965.00
0124	Mason (brick layer) 2nd class	day	5.00	361.00	1805.00
0101	Bhisti	day	1.50	328.00	492.00
0115	Coolie	day	4.50	297.00	1336.50
	Extra labour for lifting material upto floor V level:				
	Coolie (1.50x0.75x26.73)				
0115	Coolie	day	50.12	297.00	14885.64
	TOTAL				146144.20
	Add Water Charges @ 1%				1461.44
	TOTAL				147605.64
	Add CPOH @ 15%				22140.85
	Cost of 26.73 cum				169746.49
	Cost of 1 cum				6350.41
	Say				6350.40

5.6 Reinforced cement concrete work in chimneys, shafts, up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
5.2.3	RCC 1:2:4 in chimneys & shafts	cum	1.00	5923.15	5923.15 A
	Rate as per Item Number 5.2.3 of SH: Reinforced cement concrete work				
	Extra labour involved for lifting materials				
0115	Coolie	day	0.26	297.00	77.22
	TOTAL				6000.37
	Add Water Charges @ 1% except on A i.e on (6,000.37 - 5,923.15 =) 77.22				0.77
	TOTAL				6001.14
	Add CPOH @ 15% except on A i.e on (6,001.14 - 5,923.15 =) 77.99				11.70
	Cost of 1 cum				6012.84
	Say				6012.85

5.7 Reinforced cement concrete work in well-steining excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	RCC 1:2:4 in well steining				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	1.00	4921.70	4921.70 A
	LABOUR:				
	Extra labour involved				
0115	Coolie	day	0.08	297.00	23.76
	TOTAL				4945.46
	Add Water Charges @ 1% except on A i.e on (4,945.46 - 4,921.70 =) 23.76				0.24
	TOTAL				4945.70
	Add CPOH @ 15% except on A i.e on (4,945.70 - 4,921.70 =) 24.00				3.60
	Cost of 1 cum				4949.30
	Say				4949.30

5.8 Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4 RCC Vertical fins 4m high and lm center with 2 horizontal fins, all projecting 60cm from face of wall and 5cm thick = 0.66 cum.				
	MATERIAL:				
	Cement Concrete 1:1.5.3				
	4x4x0.60x0.05 = 0.48 cum				
	2x3x0.06x0.05 = 0.18 cum				
	Total = 0.66 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.3762	1200.00	451.44
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.1848	1050.00	194.04
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.561	106.64	59.83
0982	Coarse sand (zone III)	cum	0.2805	1120.00	314.16
2203	Carriage of coarse sand	cum	0.2805	106.64	29.91
0367	Portland Cement (0.2833 cum)	tonne	0.264	5240.00	1383.36
2209	Carriage of cement	tonne	0.264	94.80	25.03
	LABOUR:				
0114	Beldar	day	0.79	297.00	234.63
0115	Coolie	day	0.56	297.00	166.32
0101	Bhisti	day	0.60	328.00	196.80
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
9999	Scaffolding	L.S.	30.16	1.70	51.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	9.49	1.70	16.13
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.05	800.00	40.00
0012	Vibrator (Needle type 40 mm)	day	0.05	325.00	16.25
	Extra for lifting materials upto floor five level				
0115	Coolie	day	0.18	297.00	53.46
	Extra for restricted working in fins				
0123	Mason (brick layer) 1 st class	day	0.05	393.00	19.65
0124	Mason (brick layer) 2nd class	day	0.05	361.00	18.05
0114	Beldar	day	0.10	297.00	29.70
0101	Bhisti	day	0.15	328.00	49.20
	TOTAL				3394.47
	Add Water Charges @ 1%				33.94
	TOTAL				3428.41
	Add CPOH @ 15%				514.26
	Cost of 0.66 cum				3942.67
	Cost of 1 cum				5973.74
	Say				5973.75

5.9 Centering and shuttering including strutting, propping etc. and removal of form for.

5.9.1 Foundations, footings, bases of columns, etc. forma ss concrete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for footing size 2.7mx2.7mx 1.00m Contact area = 10.8 sqm.				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.34	1050.00	357.00
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = 4x0.85/40 = 0.085				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1160.00	197.20
	Qty taken for cost of using once = 8x0.85/40 = 0.17				
7328	Double clip (bridge clip)	each	0.34	97.00	32.98
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7329	Single clip	each	0.17	77.00	13.09
	Qty taken for cost of using once = 8x0.85/40 = 0.17				
7330	M.S. tube 40 mm dia	metre	0.2295	280.00	64.26
	Qty taken for cost of using once = 10.8x0.85/40 = 0.2295				
9999	Assembly nuts & bolts	L.S.	22.10	1.70	37.57
	Qty taken for cost of using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	0.75	393.00	294.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.50	297.00	445.50
9999	Shuttering oil	L.S.	52.00	1.70	88.40
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				1733.05
	Add Water Charges @ 1%				17.33
	TOTAL				1750.38
	Add CPOH @ 15%				262.56
	Cost of 10.8 sqm				2012.94
	Cost of 1 sqm				186.38
	Say				186.40

5.9.2 Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Details for 7.9m long and 1,00m high wall Area of contact 2x7.9x 1.0 = 15.8 sqm.				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24Nos. Qty taken for cost of using once = 24x 0.85/40 = 0.51	each	0.51	1050.00	535.50
7327	100 mm channel shoulder 2.5 m long 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1160.00	197.20
7328	Double clip (bridge clip) 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	97.00	49.47
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	280.00	190.40
9999	Nut & Bolts Qty taken for cost of using once = 1300x0.85/40 = 27.62	L.S.	27.62	1.70	46.95
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	3.50	393.00	1375.50
0114	Beldar	day	6.00	297.00	1782.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Shuttering oil	L.S.	78.00	1.70	132.60
9999	Sundries	L.S.	52.00	1.70	88.40
	TOTAL				4550.26
	Add Water Charges @ 1%				45.50
	TOTAL				4595.76
	Add CPOH @ 15%				689.36
	Cost of 15.8 sqm				5285.12
	Cost of 1 sqm				334.50
	Say				334.50

5.9.3 Suspended floors, roofs, landings, balconies and access platform.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m. MATERIAL: Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost 1. Plates (size 0.75x0.60) Angle 40x40x5mm 2x0.75= 1.50 m 2x0.60= 1.20 m = 2.70 m @ 3.00 kg/m = 8.10 kg sheet 1.6 mm thick 0.75x0.60 = 0.45 sqm 0.45 sqm @ 12.55kg/sqm = 5.65kg Weight of one plate = 13.75kg Add for wastage @ 5% = 0.69 kg Total = 14.44kg Total weight of all plates = 5x6x14.44 = 433.20 kg. Qty taken for cost using once = 433.2x 0.85/40 =9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	66.85	615.39 A
7342	Adjustable span ESO+SI (2.35-3.40) Qty taken for cost using once = 5x0.85/40 = 0.1063	each	0.1063	1900.00	201.97
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost using once = 6x0.85/40 = 0.1275	each	0.1275	1200.00	153.00
9999	Assembly nut & bolts etc. Qty taken for cost using once = 1040x 0.85/40 = 22.10	L.S.	22.10	1.70	37.57
9999	Carriage	L.S.	130.00	1.70	221.00
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	393.00	1179.00
0114	Beldar	day	6.00	297.00	1782.00
9999	Shuttering oil	L.S.	78.00	1.70	132.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, paper tape etc	L.S.	49.70	1.70	84.49
	TOTAL				4407.02
	Add Water Charges @ 1% except on A i.e on (4,407.02 - 615.39 =) 3,791.63				37.92
	TOTAL				4444.94
	Add CPOH @ 15% except on A i.e on (4,444.94 - 615.39 =) 3,829.55				574.43
	Cost of 13.5 sqm				5019.37
	Cost of 1 sqm				371.81
	Say				371.80

5.9.4 Shelves (Cast in situ).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m.				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
	1. Plates (size 0.75 x 0.60) Angle 40x40x5mm				
	2x0.75= 1.50 m				
	2x0.60 = 1.20 m				
	= 2.70 m @ 3.00 kg/m = 8.1 kg sheet				
	1.6 mm thick				
	0.75x0.60 = 0.45 sqm				
	0.45 sqm @ 12.55kg/sqm = 5.65kg				
	Weight of one plate = 13.75kg				
	Add for wastage @ 5% = 0.69 kg				
	Total = 14.44kg				
	Total weight of all plates = 5x6x14.44 = 433.20 kg.				
	Qty taken for cost using once = 433.2x 0.85/40 = 9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	66.85	615.39 A
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1900.00	201.97
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	22.10	1.70	37.57
	Qty taken for cost using once = 1040x 0.85/40 = 22.10				
9999	Carriage	L.S.	130.00	1.70	221.00
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	393.00	1179.00
0114	Beldar	day	6.00	297.00	1782.00
9999	Shuttering oil	L.S.	78.00	1.70	132.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, paper tape etc	L.S.	49.70	1.70	84.49
	TOTAL				4407.02
	Add Water Charges @ 1% except on A i.e on (4,407.02 - 615.39 =) 3,791.63				37.92
	TOTAL				4444.94
	Add CPOH @ 15% except on A i.e on (4,444.94 - 615.39 =) 3,829.55				574.43
	Cost of 13.5 sqm				5019.37
	Cost of 1 sqm				371.81
	Say				371.80

5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor Cubical contents 6.60x0.5x0.3 = 0.99 cum 1x1.30x6.00 = 7.80 sqm. MATERIAL: Assuming shuttering will become un-serviceable after use of 40 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material 1. Steel plates for side and bottom (plate size 1.20 x 0.50m) Angle 40x40x5mm 2x1.20 = 2.40 m 3x0.50= 1.50 m Total 3.90 m @ 3.00 kg/m = 11.70 kg sheet 1.6 mm thick 1.20m x 0.50 m= 0.60 sqm. 0.60 sqm @ 12.55 kg/sqm. = 7.53 kg. Weight of one plate = 19.23 kg. Add for wastage 5% 0.96 kg. Total =20.19 kg. Total weight of all plates 3x5x20.19 = 302.85 kg Qty taken for cost of using once = 302.85 x 85/40 = 6.4356 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	6.4356	66.85	430.22 A
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost of using once = 6x0.85/40 = 0.1275 m	each	0.1275	1200.00	153.00
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = 5/0.85/40 = 0.1063 m	each set	0.1063	422.00	44.86
9999	Assembly nut & bolts etc. Qty taken for cost of using once = 1040x 0.85/40 = 22.10	L.S.	22.10	1.70	37.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	1.25	393.00	491.25
0114	Beldar	day	2.50	297.00	742.50
9999	Shuttering oil	L.S.	39.00	1.70	66.30
9999	Sundries, paper tape etc	L.S.	24.61	1.70	41.84
	TOTAL				2140.14
	Add Water Charges @ 1% except on A i.e on (2,140.14 - 430.22 =) 1,709.92				17.10
	TOTAL				2157.24
	Add CPOH @ 15% except on A i.e on (2,157.24 - 430.22 =) 1,727.02				259.05
	Cost of 7.80 sqm				2416.29
	Cost of 1 sqm				309.78
	Say				309.80

5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4.5 sqm. Siize of column 450x450mm and 2.5m high Area of contact = 4x0.45x2.5 = 4.5 sqm.				
	MATERIAL:				
	Assuming shuttering will become unserviceable after use of 40 times				
	Add maintenance charges @ 10% of cost of material				
	Less salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm	each	0.17	1040.00	176.80
	Qty taken for cost of using once = 8x0.85/40 = 0.17				
7332	Corner angle 45x45x5 mm 2.50 m long	each	0.085	340.00	28.90
	Qty taken for cost of using once = 4x0.85/40 =0.085				
7333	Column clamp 450x1070 mm	each	0.1063	1220.00	129.69
	Qty taken for cost of using once = 5x0.85/40 =0.1063				
7334	Prop 2 m (2-3.5 m)	each	0.085	830.00	70.55
	Qty taken for cost of using once = 4x0.85/40 =0.085				
9999	Assembly nut & bolts etc.	L.S.	27.62	1.70	46.95
	Qty taken for cost of using once = 1300x 0.85/40 = 27.62				
9999	Carriage	L.S.	52.00	1.70	88.40
	LABOUR:				
0116	Fitter (grade 1)	day	1.00	393.00	393.00
0114	Beldar	day	2.00	297.00	594.00
9999	Shuttering oil	L.S.	39.00	1.70	66.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	26.00	1.70	44.20
	TOTAL				1638.79
	Add Water Charges @ 1%				16.39
	TOTAL				1655.18
	Add CPOH @ 15%				248.28
	Cost of 4.50 sqm				1903.46
	Cost of 1 sqm				422.99
	Say				423.00

5.9.7 Stairs, (excluding landings) except spiral-staircases.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.79 sqm. Details of staircase, 3.40m clear span including 1 m landing. MATERIAL: (i) Cost of plank 38mm (2nd class kail wood) Waist 2.69x1.30 = 3.50sqm. Side shuttering of steps and side of waist- Steps = 8x1.30x1.15= 1.56 sqm Face of landing 1x1.30x0.15 = 0.20 sqm. Side of waist 2.69x0.13 =0.35 sqm. Side of steps- 8x0.50x0.30x0.15 = 0.18sqm. Total = 5.79 sqm. Wastage 5% = 0.29sqm. Total = 6.08 sq. Cubical content-6.08x0.038 = 0.231 cum = 231 cudm Qty taken for cost using once = 231/8= 28.875cudm				
1198	Second class kail wood in planks (ii) Batten 100mm x 75mm 4x1.30x0.100x0.075=0.039 cum = 39 cudm Qty taken for cost using once = 39/8 = 4.875 cudm	10 cudm	28.875	260.00	750.75
1197	Second class kail wood in scantling 2x4x0.80 = 6.40m Qty taken for cost using once = 6.4/8 = 0.8 m	10 cudm	4.875	260.00	126.75
0302	Safeda ballies 125 mm diameter Planks = 0.231 cum. Battens = 0.039 cum. Bailies 6.4x3.142/4x(0.125)2 = 0.079cum. Total =0.349 cum. Qty taken for cost using once = 0.349/8 = 0.04363 cum	metre	0.80	42.00	33.60
2204	Carriage of timber LABOUR: For assembling, erection, dismantling and cleaning	cum	0.04363	121.88	5.32
0112	Carpenter 2nd class	day	1.75	361.00	631.75
0114	Beldar	day	1.00	297.00	297.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	16.12	1.70	27.40
	TOTAL				1872.57
	Add Water Charges @ 1%				18.73
	TOTAL				1891.30
	Add CPOH @ 15%				283.70
	Cost of 5.79 sqm				2175.00
	Cost of 1 sqm				375.65
	Say				375.65

5.9.8 Spiral staircases (including landing).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.28 sqm (For 10 steps).				
	Treads				
	10x0.70x0.20(av.) = 1.40 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	1.40	309.80	433.72 A
	Riser				
	2x 10x0.70x0.23 = 3.22 sqm				
5.9.2	Rate as per Item Number 5.9.2 of SH: Reinforced cement concrete work	sqm	3.22	334.50	1077.09 A
	Newal Post (Column)				
	10x3.14x0.232 = 1.66 sqm				
5.9.7	Rate as per Item Number 5.9.7 of SH: Reinforced cement concrete work	sqm	1.66	375.65	623.58 A
	TOTAL				2134.39
	Cost of 6.28 sqm				2134.39
	Cost of 1 sqm				339.87
	Say				339.85

5.9.9 Arches, domes, vaults up to 6 m span.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a semicircular arch 3.6m clear span and 3.6m long. Area of centering = 22x1.8x3.6=20.37sqm.				
	MATERIAL:				
	Frame work in 2nd class kail wood				
	Tie-1x3.6x0.15x0.20 = 0.108cum.				
	Struts-3xl.8x0.10x0.10 =0.054cum				
	Struts-2x2.55x0.10x0.10=0.051 cum.				
	Ribs-4xl.38x.075x0.075=0.031cum.				
	Total = 0.244 cum.				
	Quantity for 7 such frames				
	7x0.244 =1.708cum.				
	Strips 5cmx2.5cm = 7.5cm center to center				
	5.66/0.075x0.05x0.025x3.6 = 0.342cum.				
	Total = 2.050 cum = 2050 cudm				
	Qty taken for cost using once = 2050/8 = 256.25 cudm				
1197	Second class kail wood in scantling	10 cudm	256.25	260.00	6662.50
0302	Safeda ballies 125 mm diameter	metre	12.60	42.00	529.20
	7x4x3.6= 100.8m				
	Qty taken for cost using once = 100.8/8 = 12.60				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0992	Galvanised steel plain sheets 20.37 sqm = 116kg. Or 1.16 quintal Qty taken for cost using once =1.16/8 = 0.145 qtl CARRIAGE: Kail wood = 2.05cum. Bailies- 100.8x(. 125)2/4x3.142 = 1.24cum. Total = 3.29 cum.- Qty taken for cost using once = 3.29/8 = 0.4112 cum	quintal	0.145	5200.00	754.00
2204	Carriage of timber G.I. Sheet = 0.116 t Qty taken for cost using once = 0.116/8 = 0.0145 t	cum	0.4112	121.88	50.12
2302	Carriage of G.I.sheet and accessories LABOUR:	tonne	0.0145	94. 80	1.37
0112	Carpenter 2nd class	day	16.00	361.00	5776.00
0114	Beldar	day	13.00	297.00	3861.00
9999	Sundries	L.S.	11.70	1.70	19.89
	TOTAL				17654.08
	Add Water Charges @ 1%				176.54
	TOTAL				17830.62
	Add CPOH @ 15%				2674.59
	Cost of 20.37 sqm				20505.21
	Cost of 1 sqm				1006.64
	Say				1006.65

5.9.10 Extra for arches, domes, vaults exceeding 6 m span.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 33.31 sqm. Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m 2R-2=4+4 tan-1 (4/3) = 53.28° 2x53.28°= 106° Surface area =2x22/7x5x3.6x106/360=33.31 sqm. Arc=9.25m MATERIAL: Tie-2x8x 0.18x0.05 =0.144cum Struts-2x2.5x0.1x0.1 =0.050cum. Struts-2xl .77x0.1 x0. 1 =0.035cum. Ribs-6x 1.54x0.23x0.1 =0.213cum. Struts-2x 1.72x0.1 x0. 1 =0.034cum. Total=0.476cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For four such frames =0.476x4= 1.904 cum. laggings-75x3.6x0.125x0.075=2.531cum. Tie-2x3.6x0.225x0.038=0.062cum. Brace-3x2x2.14x0.225x0.038=0.110cum Brace-3x4x3.8x0.225x0.038=0.390 cum Sleepers-4x3.6x0.20x0.15=0.432 cum Sleepers-2x4x3.6x0. 175x0.075=0.378 Vertical post-4x4x-3.6x0.15x0.15=1.296 Total =7.103cum. or 7103 cudm Qty taken 1/8th of qty for cost using once =7.103/8 = cum = 887.9 Cudm				
1197	Second class kail wood in scantling	10 cudm	887.90	260.00	23085.40
2204	Carriage of timber	cum	0.8879	121.88	108.22
	Fittings: 3 way straps 50mmxl 0mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmxl0mm = 8 Nos. @0.25cm each = 2m = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken l/8th of qty for cost using once = 0.702/8 = 0.08775				
1225	Mild steel flat strap fitting	quintal	0.0878	4450.00	390.71
	Bolts 160 Nos. 254 mm long 16mm dia.- 160x.254x 1.58=64.21 kg=0.64q. Qty taken l/8th of qty for cost using once =0.64/8 = 0.08				
1034	Bolts and nuts up to 300 mm in length	quintal	0.08	5600.00	448.00
2302	Carriage of G.I.sheet and accessories 0.1342t	tonne	0.0168	94.80	1.59
	Qty taken l/8th of qty for cost using once = 0.1342/8 = 0.01677 cum				
	LABOUR:				
0112	Carpenter 2nd class	day	28.00	361.00	10108.00
0114	Beldar	day	24.00	297.00	7128.00
9999	Sundries	L.S.	134.55	1.70	228.74
	Less cost of shuttering etc. for an arch exceedin 6m span i.e. for an average of 8m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	1006.65	-33531.51A
	TOTAL				7967.15
	Add Water Charges @ 1% except on A i.e on [7,967.15 - (-33,531.51)] =) 41,498.66				414.99
	TOTAL				8382.14
	Add CPOH @ 15% except on A i.e on [8,382.14 - (-33,531.51)] =) 41,913.65				6287.05
	Cost of 33.31 sqm				14669.19
	Cost of 1 sqm				440.38
	Say				440.40

5.9.11 Chimneys and shafts.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.80 sqm.				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	1050.00	535.50
7327	100 mm channel shoulder 2.5 m long 4x2 = 8 Qty taken for cost of using once = 8x0.85/40= 0.17	each	0.17	1160.00	197.20
7328	Double clip (bridge clip) 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40= 0.51	each	0.51	97.00 4	9.47
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40= 0.255	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40= 0.68	metre	0.68	280.00	190.40
9999	Nut & Bolts Qty taken for cost of using once = 1300x0.85/40= 27.63	L.S.	27.63	1.70	46.97
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	3.50	393.00	1375.50
0114	Beldar	day	6.00	297.00	1782.00
9999	Shuttering oil	L.S.	78.00	1.70	132.60
9999	Sundries	L.S.	52.00	1.70	88.40
	TOTAL				4550.28
	Add Water Charges @ 1%				45.50
	TOTAL				4595.78
	Add CPOH @ 15%				689.37
	Cost of 15.80 sqm				5285.15
	Cost of 1 sqm				334.50
	Say				334.50

5.9.12 Well steining.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 26.39 sqm. Surface area Outside area =22/7x4.40x1.00 - 13.82sqm = 26.39 sqm MATERIAL: Assuming that the timber will become unserviceable after being used 8 times Planks 38 mm (Second class kail wood)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	26.39x0.038= 1.00cum. Wastage 20% = 0.20cum. Total = 1.20cum. or 1200 cudm. Qty for cost using once = 1200/8=150 cudm				
1198	Second class kail wood in planks 2nd class kail wood battens Inside = 2x25x0.50x0.075x0.038 = 0.0712cum. Outside = 2x28x0.50x0.075x0.038 = 0.0798cum Total = 0.1510cum. Wastage 5% = 0.0076 cum = 0.1586cum. or 158.60 cudm Qty for cost using once = 0.1586/8= 0.0198 cudm	10 cudm	150.00	260.00	3900.00 P
1197	Second class kail wood in scantling	10 cudm	0.0198	260.00	0.51 Q
0302	Safeda ballies 125 mm diameter Inside: 25x1.00 = 25.00m Outside: 28x1.00 = 28.00m Total = 53.00m Qty for cost using once = 53/8 =6.625 m	metre	6.625	42.00	278.25 R
	Add for carriage, labour for erection and dismantling etc. @ 1/6th of the cost of material (P + Q + R) / 6 = (3900.00 + 0.51 + 278.25) / 6				696.46
	TOTAL				4875.22
	Add Water Charges @ 1%				48.75
	TOTAL				4923.97
	Add CPOH @ 15%				738.60
	Cost of 26.39 sqm				5662.57
	Cost of 1 sqm				214.57
	Say				214.55

5.9.13 Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for fins 4 vertical fins 4 metre high and at 1 metre centres, with two horizontal fins all projecting 60cm from face of wall and 5 cm thick-i.e.4x4x1.215+2x3x 0.65=23.90 sqm. MATERIAL:				
1198	Second class kail wood in planks 38mm thick- 4x4x1.25=20.00 2x3x0.65 =3.90 Total = 23.90 Wastage @ 5% = 1.20 Total = 25.10sqm. 25.10x0.038=.954 cum or 954 cudm Qty for cost using once = 954/8 = 119.25 cudm	10 cudm	119.25	260.00	3100.50
1197	Second class kail wood in scantling 4x2x5x0.60x0.075x0.050=0.090 3x2x5x1.00x0.075x0.050=0.112 2x6x0.60x0.075x0.100=0.054 = 0.256 Cum.	10 cudm	33.625	260.00	874.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wastage® 5% =0.013 cum = 0.269 cum= 269 cudm Qty for cost using once = 269/8 = 33.625 cudm				
0302	Safeda ballies 125 mm diameter 2x2x6x4.00 =96m Wastage @5% = 4.8m Total= 100.8 m Qty for cost using once = 100.8/8 = 12.6 m	metre	12.60	42.00	529.20
2204	Carriage of timber Planks = 0.954 Battens = 0.269 Bailies 100.8x(.125)2/4x3.142=1.238cum. Total = 2.461 cum Qty for cost using once = 2.461/8 = 0.3076 cum	cum	0.3076	121.88	37.49
	LABOUR: For assembling, erection, dismantling and cleaning				
0112	Carpenter 2nd class	day	11.00	361.00	3971.00
0114	Beldar	day	11.00	297.00	3267.00
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				11916.68
	Add Water Charges @ 1%				119.17
	TOTAL				12035.85
	Add CPOH @ 15%				1805.38
	Cost of 25.10 sqm				13841.23
	Cost of 1 sqm				551.44
	Say				551.45

5.9.14 Extra for shuttering in circular work (20% of respective centering and shuttering items).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm Extra for shuttering in circular work 20% of respective centring and shuttering				
	1 x 20 = 1 x 20				20.00
	Cost of 1 sqm				20.00
	Say				20.00

5.9.15 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for footing size 2.7mx2.7mx l.00m Contact area = 10.80 sqm. MATERIAL: Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7319	Wall form panel 1250x500 mm Qty taken for cost of using once = 16x 0.85/40= 0.34	each	0.34	1050.00	357.00
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = 4x0.85/40 =0.085	each	0.085	300.00	25.50
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = 8x0.85/40 =0.17	each	0.17	1160.00	197.20
7328	Double clip (bridge clip) Qty taken for cost of using once = 16x 0.85/40= 0.34	each	0.34	97.00	32.98
7329	Single clip Qty taken for cost of using once = 8x0.85/40 =0.17	each	0.17	77.00	13.09
7330	M.S. tube 40 mm dia 4x2.7m = 10.8m Qty taken for cost of using once =10.8x0.85/40 =0.2295	metre	0.2295	280.00	64.26
9999	Assembly nut & bolts etc. Qty taken for cost of using once =1040x 0.85/40 = 22.10	L.S.	22.10	1.70	37.57
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	0.75	393.00	294.75
0114	Beldar	day	1.50	297.00	445.50
9999	Shuttering oil	L.S.	52.00	1.70	88.40
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				1733.05
	Add Water Charges @ 1%				17.33
	TOTAL				1750.38
	Add CPOH @ 15%				262.56
	Cost of 10.80 sqm				2012.94
	Cost of 1 sqm				186.38
	Say				186.40

5.9.16 Edges of slabs and breaks in floors and walls.

5.9.16.1 Under 20 cm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a 3mx3m slab 15cms thick 12m edge Length. MATERIAL: Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planks 30mm thick (2nd class Kail wood or equivalent local soft wood) 4x3x0.15x0.030=0.054cum Wastage @5% = 0.003 cum. Total = 0.057 cum 57 cudm Qty taken for cost of using once = 57/8 = 7.125 cudm	10 cudm	7.125	260.00	185.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling (ii) Battens 75mmxl00mm (2nd class Kail wood) Horizontal 2x4x0.075x0.1x0.5=0.030 Horizontal 2x4x0.075x0.1 x 1.5=0.090 (iii) Vertical battens 16x0.15x0.075x0.030M=0.0054 (iv) Struts 16x0.25x0.075x0.075=0.0225 Total = 0.1479 Wastage @5% =0.0074 Total = 0.1553 cum= 155 cudm Qty taken for cost ef using once = 155/8 =19.375 cudm	10 cudm	19.375	260.00	503.75
2204	Carriage of timber Planks = 0.057 cum. Battens = 0.155 cum. Total = 0.212 cum. Qty taken for cost of using once = 0.212/8 = 0.0265 cum	cum	0.0265	121.88	3.23
	LABOUR: For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	0.81	361.00	292.41
0114	Beldar	day	0.54	297.00	160.38
9999	Sundries	L.S.	5.20	1.70	8.84
	TOTAL				1153.86
	Add Water Charges @ 1%				11.54
	TOTAL				1165.40
	Add CPOH @ 15%				174.81
	Cost of 12 metre				1340.21
	Cost of 1 metre				111.68
	Say				111.70

5.9.16.2 Above 20 cm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4mx4xslab 25cms thick 16 metre edge length Shuttering surface area = 16 x 0.25 = 4 sqm. MATERIAL:				
1198	Second class kail wood in planks 38mm thick 4x4x0.25x0.038 = 0.152 Wastage @ 5% = 0.008 Total = 0.160 cum. = 160 cudm Qty taken for cost of using once = 160/8 = 20 cudm	10 cudm	20.00	260.00	520.00
1197	Second class kail wood in scantling (ii) Battens 6x2x0.60x0.075x0.100=0.054 5x2x1.5x0.075x0.100=0.113 Total =0.167 Wastage @ 5% = 0.008 Total =0.175 cum. = 175 cudm	10 cudm	21.88	260.00	568.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost of using once = 175/8 = 21.88 cudm				
2204	Carriage of timber Planks = 0.16 cum. Battens = 0.175 cum. Total = 0.335 cum. Qty taken for cost of using once = 0.335/8 = 0.0419 cum	cum	0.0419	121.88	5.11
	LABOUR: For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	0.75	297.00	222.75
9999	Sundries	L.S.	6.50	1.70	11.05
	TOTAL				1688.79
	Add Water Charges @ 1%				16.89
	TOTAL				1705.68
	Add CPOH @ 15%				255.85
	Cost of 4.00 sqm				1961.53
	Cost of 1 sqm				490.38
	Say				490.40

5.9.17 Cornices and mouldings.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10m long moulding 10cm projection, 20cm depth and 40cm girth Area in contact 10x0.40 = 4.00 sqm. MATERIAL: Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planking 30mm thick = 4sqm. Extra & Wastage 20% = 0.8 sqm. Total = 4.8 sqm. 4.8x0.038 = 0.182 cum = 182 cudm Qty taken for cost using once = 182/8 = 22.75 cudm	10 cudm	22.75	260.00	591.50
1197	Second class kail wood in scantling (ii) Battens-Joining to Planking 1x10x0.1x0.075 = 0.075 cum. From bottom shuttering 10xl.5x0.lx0.075 = 0.113 cum. Walls 10x0.4mx0.1x0.075 = 0.030 cum. Total = 0.218 cum = 218 cudm Qty taken for cost using once = 218/8 = 27.25 cudm	10 cudm	27.25	260.00	708.50
2447	Hollock ballies 125 mm diameter (iii) Bailies 125 mm dia. Slant 10x0.3 =3.00 m Verticals 6x3.5= 21.00m Total = 24.00 m	metre	3.15	35.00	110.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wastage @ 5% = 1.20 m Total = 25.20 m Qty taken for cost using once = 25.2/8 = 3.15m				
2204	Carriage of timber Planking = 0.188 cum. Battens & Wales = 0.218 cum. Bailies 25.2x22/7x(0.125)2/4 = 0.310 cum. Total = 0.710 cum. Qty taken for cost using once Total = 0.710 cum. Qty taken for cost using once = 0.71/8= 0.0888 cum	cum	0.0888	121.88	10.82
	LABOUR: Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.63	361.00	227.43
0114	Beldar	day	0.63	297.00	187.11
9999	Sundries	L.S.	6.50	1.70	11.05
	TOTAL				1846.66
	Add Water Charges @ 1%				18.47
	TOTAL				1865.13
	Add CPOH @ 15%				279.77
	Cost of 4.00 sqm				2144.90
	Cost of 1 sqm				536.23
	Say				536.20

5.9.18 Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a bracket 1.20m projected Front area 0.50x0.60m End area 0.50x0.75m Area in contact with concrete 2x{(0.60+0.75)/ 2x1.2}= 1.62 sqm Front 0.5x0.6 = 0.30 sqm. Bottom 0.5x1.21 = 0.605 sqm. Total = 2.525 sqm. MATERIAL: Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks or equivalent local soft wood (i) Plank 30mm thick. Sides 2{(0.60"0.75)/2xl.238} = 1.6713 sqm Battens 0.576x1.21 =0.697 Front 0.5x0.638 =0.319 Total = 2.687 sqm. Cubical contents 2.687x0.038 =0.102 cum. Wastage @ 5% = 0.005 cum. Total =0.107 cum. Qty taken for cost using once = 107/8 = 13.375 cudm	10 cudm	13.375	260.00	347.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling (ii) Battens-0.05x0.05 2x1.238 = 2.476m 2x1.21 = 2.42m 2x0.688 = 1.376m 2x0.838 = 1.676m 3x0.5 = 1.50m Total = 9.448m Total = 9.448m Cubical contents 9.448x0.05x0.05 = 0.024 cum Wastage 5% = 0.0012 cum. Total = 0.0252 cum = 25.2 cudm Qty taken for cost using once = 25.2/8 = 3.15 cudm	10 cudm	3.15	260.00	81.90
2447	Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. 1x2.5 = 2.50m 1x2.65 = 2.65m Total = 5.15 m Wastage 5% = 0.26m Total =5.41 m Qty taken for cost using once = 5.41/8= 0.6763 m	metre	0.6763	35.00	23.67
2204	Carriage of timber Planks =0.107 cum. Battens = 0.0252 cum Baillies 5.41x22/7x(0.125)2/4 = 0.066 cum Total = 0.198 cum Qty taken for cost using once = 0.198/8 = 0.0248 cudm	cum	0.0248	121.88	3.02
	LABOUR: Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	0.80	297.00	237.60
9999	Sundries	L.S.	7.15	1.70	12.16
	TOTAL				994.90
	Add Water Charges @ 1%				9.95
	TOTAL				1004.85
	Add CPOH @ 15%				150.73
	Cost of 2.525 sqm				1155.58
	Cost of 1 sqm				457.66
	Say				457.65

5.9.19 Weather shade, Chajjas, corbels etc., including edges.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a weather shade Area of centring and shuttering = 0.954 sqm. For a weather shade over a window of size 1.5mxl.2m Size of weather shade 1.80x0.45m Thickness at front = 0.05m Thickness at fixed edge = 0.07m Area in contact with concrete Bottom 1x0.45x1.80 = 0.810				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1x0.05x1.80 = 0.094 2x0.45x0.06 = 0.027 Total = 0.954 sqm MATERIAL Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planking 38mm thick. Bottom 1x1.876x0.488 = 0.915 sqm. 1x1.876x0.05 =0.94 sqm. 2x0.45x0.06 = 0.027 sqm. Total =1.036 sqm. Add 5% wastage = 0.052 sqm. Total = 1. 088 sqm. Cubic contents 1.088x0.038 =0.041 cum = 41 cudm Qty taken for cost using once = 41/8 = 5.125 cudm	10 cudm	5.125	260.00	133.25
1197	Second class kail wood in scantling (ii) Battens- 2x0.60x0.075x0.10 = 0.009 Ends with bearing center 1x0.45x0.075x0.10 = 0.003 Total = 0.012 cum = 12 cudm Qty taken for cost using once =12/8=1.50 cudm	10 cudm	1.50	260.00	39.00
2447	Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. 2x2.1 =4.2m Wastage 5% = 0.21m Total = 4.41 m Qty taken for cost using once = 4.41/8 = 0.5513 m	metre	0.5513	35.00	19.30
2204	Carriage of timber Plank = 0.041 cum. Battens = 0.012 cum. Bailies 4.41x22/7x(0.125)2/4 = 0.054 cum. Total = 0.107 cum Qty taken for cost using once = 0.107/8 = 0.01338 cum LABOUR: Labour for assembling, erection, dismantling & cleaning	cum	0.01338	121.88	1.63
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	5.20	1.70	8.84
	TOTAL				384.57
	Add Water Charges @ 1%				3.85
	TOTAL				388.42
	Add CPOH @ 15%				58.26
	Cost of 0.954 sqm				446.68
	Cost of 1 sqm				468.22
	Say				468.20

5.9.20 Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room 4.50x3 = 13.50 sqm, height 3.50 m.				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
10.1	Rate as per Item Number 10.1 of SH:	kg	5.425	66.85	362. 66 A
	Steel work				
	1. Plates (size 0.75x0.60)				
	Angle 40x40x5mm				
	2x0.75= 1.50 m				
	2x0.60= 1.20 m				
	= 2.70m@3.00kg/m = 8.10 kg				
	Weight of one plate =8.1kg				
	Add for wastage @ 5% = 0.41 kg				
	Total = 8.51 kg				
	Total weight of all plates = 5x6x8.51 = 255.30 kg				
	Qty taken for cost using once.= 255.30x0.85/40 = 5.425 kg				
	Welding length = (30x32)/40=24 cm				
1215	Welding by electric plant	cm	24.00	1.80	43.20
8659	Water proof ply 12 mm thick	sqm	1.77	650.00	1150.50
	1x4.50x3.00=13.50sqm Add wastage				
	5% =0.68sqm				
	Total 14.18sqm				
	Qty taken for cost using once 14.18/8 = 1.77sqm				
0112	Carpenter 2nd class	day	0.125	361.00	45.12
0114	Beldar	day	0.125	297.00	37.12
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5600.00	11.76
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1900.00	201.97
	Qty taken for cost using once = 5x0.85/40 = 0.10625				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	12.63	1.70	21.47
9999	Carriage	L.S.	130.00	1.70	221.00
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	393.00	1179.00
0114	Beldar	day	6.00	297.00	1782.00
9999	Shuttering oil	L.S.	78.00	1.70	132.60
9999	Sundries	L.S.	52.00	1.70	88.40
	TOTAL 5429.80				
	Add Water Charges @ 1% except on A i.e on (5,429.80 - 362.66 =) 5,067.14				50.67
	TOTAL				5480.47
	Add CPOH @ 15% except on A i.e on (5,480.47 - 362.66 =) 5,117.81				767.67
	Cost of 13.50 sqm				6248.14
	Cost of 1 sqm				462.83
	Say				462.85

5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor. Cubical contents 6.60x0.5x0.3 = 0.99 cum 1x1.30x6.00 = 7.80 sqm MATERIAL: Assuming shuttering will become unserviceable after use of 8 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material				
10.1	Rate as per Item Number 10.1 of SH: Steel work Steel plates for side and bottom (plate size 1.20 x 0.50m) Angle 40x40x5mm (both sides) & bottom 2x(2x1.20) = 4.80 +(2x1.2) =7.20m 2x(3x0.50)=3.00+(3x0.30)=3.9m 11.10 m @ 3.00 kg/m =33.30 kg Add for wastage =1.67kg. Total =34.97 kg. Total weight of all plates 5x34.97 = 174.85 kg Qty taken for cost of using once = 174.85x 0.85/40 =3.72 kg Welding length 480/40= 12 cm	kg	3.72	66.85	248.68 A
1215	Welding by electric plant	cm	12.00	1.80	21.60
8659	Water proof ply 12 mm thick 1x1.30x6.00 = 7.80 sqm Add 5% wastage = 0.39 sqm Total = 8.19 sqm Qty taken for cost of using once 8.19/8 sqm = 1.02 sqm	sqm	1.02	650.00	663.00
0112	Carpenter 2nd class	day	0.125	361.00	45.12
0114	Beldar	day	0.125	297.00	37.12
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5600.00	11.76
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost of using once = 6 x0.85/40 =0.1275 m	each	0.1275	1200.00	153.00
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063m	each set	0.1063	422.00	44.86
9999	Assembly nut & bolts etc.	L.S.	11.05	1.70	18.78
9999	Carriage	L.S.	78.00	1.70	132.60
	LABOUR:				
0116	Fitter (grade 1)	day	1.25	393.00	491.25
0114	Beldar	day	2.50	297.00	742.50
9999	Shuttering oil	L.S.	39.00	1.70	66.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries, paper tape etc	L.S.	26.00	1.70	44.20
	TOTAL				2720.77
	Add Water Charges @ 1% except on A i.e on (2,720.77 - 248.68 =) 2,472.09				24.72
	TOTAL				2745.49
	Add CPOH @ 15% except on A i.e on (2,745.49 - 248.68 =) 2,496.81				374.52
	Cost of 7.80 sqm				3120.01
	Cost of 1 sqm				400.00
	Say				400.00

5.10 Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-Charge.

5.10.1 12 mm dia & 100 mm length.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for wall length 7.90m x 1m (24 sets).				
	MATERIAL:				
7320	Tie bolt 12 mm dia 100 mm length	each	24.00	50.00	1200.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.70	22.10
	LABOUR:				
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				2898.30
	Add Water Charges @ 1%				28.98
	TOTAL				2927.28
	Add CPOH @ 15%				439.09
	Cost of 24 sets				3366.37
	Cost of each set				140.27
	Say				140.25

5.10.2 12 mm dia & 150 mm length.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for wall length 7.90m x 1 m (24 sets).				
	MATERIAL:				
7321	Tie bolt 12 mm dia 150 mm length	each	24.00	60.00	1440.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.70	22.10
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				3138.30
	Add Water Charges @ 1%				31.38
	TOTAL				3169.68
	Add CPOH @ 15%				475.45
	Cost of 24 sets				3645.13
	Cost of each set				151.88
	Say				151.90

5.10.3 20 mm dia & 150 mm length.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for wall length 7.90m x 1 m (24 sets).				
	MATERIAL:				
7322	Tie bolt 20 mm dia 150 mm length	each	24.00	75.00	1800.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.70	22.10
	LABOUR:				
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				3498.30
	Add Water Charges @ 1%				34.98
	TOTAL				3533.28
	Add CPOH @ 15%				529.99
	Cost of 24 sets				4063.27
	Cost of each set				169.30
	Say				169.30

5.10.4 20 mm dia & 225 mm length.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for wall length 7.90m x 1 m (24 sets).				
	MATERIAL:				
7323	Tie bolt 20 mm dia 225 mm length	each	24.00	90.00	2160.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.70	22.10
	LABOUR:				
9999	Sundries	L.S.	26.00	1.70	44.20
	TOTAL				3858.30
	Add Water Charges @ 1%				38.58
	TOTAL				3896.88
	Add CPOH @ 15%				584.53
	Cost of 24 sets				4481.41
	Cost of each set				186.73
	Say				186.75

5.11 Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).

5.11.1 Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room of size 6mx 4.8m = 28.8 sqm.				
	MATERIAL:				
	Assuming that shuttering material will become unserviceable after use 40 times				
	Less salvage value of material after full use @ 25% of cost material				
	Add 10% of cost of material for maintenance				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7345	Prop 4 m Qty taken for cost using once = 21 x0.85/ 40 = 0.4463 Deduct the rate of 3m prop	each	0.4463	1170.00	522.17
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost using once = 21x0.85/ 40 = 0.4463 Difference of rate between 4m prop and 3m prop	each	-0.4463	1200.00	-535.56
7330	M.S. tube 40 mm dia Bracing MS tube 40mm 7x4.8m = 33.60m 3x6.0m= 18.00m Total = 51.60m Qty taken for cost using once = 51.6x0.85/ 40= 1.0965	metre	1.0965	280.00	307.02
7346	Double coupler (40x40) Qty taken for cost using once = 21 x0.85/ 40 =0.4463	each	0.4463	55.00	24.55
9999	Carriage LABOUR:	L.S.	65.00	1.70	110.50
0116	Fitter (grade 1)	day	3.00	393.00	1179.00
0114	Beldar	day	6.00	297.00	1782.00
9999	Sundries	L.S.	130.00	1.70	221.00
	TOTAL				3610.68
	Add Water Charges @ 1%				36.11
	TOTAL				3646.79
	Add CPOH @ 15%				547.02
	Cost of 28.8 sqm				4193.81
	Cost of 1 sqm				145.62
	Say				145.60

5.12 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum. MATERIAL: Cement concrete 1:2:4 in string or lacing course etc				
4.5.2	Rate as per Item Number 4.5.2 of SH: Concrete work (NB : Rate has been taken including cost of fixing in CM 1:2 as precast members are to be fixed in CM 1:2)(1 cement: 2 coarse sand) as per CPWD specifications LABOUR: Extra labour for laying CC in RCC work	cum	1.00	5668. 70	5668.70 A
0114	Beldar	day	0.10	297.00	29.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.20	328.00	65.60
0123	Mason (brick layer) 1 st class	day	0.04	393.00	15.72
0124	Mason (brick layer) 2nd class	day	0.04	361.00	14.44
0128	Mate	day	0.04	328.00	13.12
	TOTAL				5807.28
	Add Water Charges @ 1% except on A i.e on (5,807.28 - 5,668.70 =) 138.58				1.39
	TOTAL				5808.67
	Add CPOH @ 15% except on A i.e on (5,808.67 - 5,668.70 =) 139.97				21.00
	Cost of 1 cum				5829.67
	Say				5829.65

5.13 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5 m clear span up to floor five level, including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a lintel Qty = 0.054 cum.				
	MATERIAL:				
	1.5m clear span = 1.8x0.20x0.15 = 0.054 cum.				
	Cement Concrete 1:2:4				
4.2.3	Rate as per Item Number 4.2.3 of SH : Concrete work	cum	0.054	5822.15	314.40 A
	Centring and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.60	186.40	111.84 A
	LABOUR:				
0114	Beldar	day	0 .005	297.00	1.48
0101	Bhisti	day	0.01	328.00	3.28
0123	Mason (brick layer) 1 st class	day	0.002	393.00	0.79
0124	Mason (brick layer) 2nd class	day	0.002	361.00	0.72
0128	Mate	day	0.002	328.00	0.66
	TOTAL				433.17
	Add Water Charges @ 1% except on A i.e on (433.17 - 426.24 =) 6.93				0.07
	TOTAL				433.24
	Add CPOH @ 15% except on A i.e on (433.24 - 426.24 =) 7.00				1.05
	Cost of 0.054 cum				434.29
	Cost of 1 cum				8042.41
	Say				8042.40

5.14 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one 1 x 0.20 x 0.15 = 0.03 cum.				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.03	492 1.70	147.65 A
	Extra labour for lifting				
	0.45 x 0.03 x 2.5 = 0.034				
0115	Coolie	day	0.034	297.00	10.10
9999	Mortar and labour for hoisting and for fixing	L.S.	2.73	1.70	4.64
	Centring and shuttering				
4:3:1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.36	186.40	67.10 A
	53.82x0.03				
9999	Add for extra labour for hoisting	L.S.	1.61	1.70	2.74
	LABOUR:				
	Add Extra labour for moulding				
0123	Mason (brick layer) 1 st class	day	0.0174	393.00	6.84
	0.58x0.03				
0124	Mason (brick layer) 2nd class	day	0.0174	361.00	6.28
	0.58x0.03				
0115	Coolie	day	0.045	297.00	13.36
	1.5x0.03				
0101	Bhisti	day	0.0018	328.00	0.59
	0.06x0.03				
	Extra labour for laying CC in RCC				
0114	Beldar	day	0.003	297.00	0.89
	0.1x0.03				
0101	Bhisti	day	0.006	328.00	1.97
	0.2x0.03				
0123	Mason (brick layer) 1 st class	day	0.0012	393.00	0.47
	0.04x0.03				
0124	Mason (brick layer) 2nd class	day	0.0012	361.00	0.43
	0.04x0.03				
0128	Mate	day	0.0012	328.00	0.39
	0.04x0.03				
	TOTAL				263.45
	Add Water Charges @ 1% except on A i.e on (263.45 - 214.75 =) 48.70				0.49
	TOTAL				263.94
	Add CPOH @ 15% except on A i.e on (263.94 - 214.75 =) 49.19				7.38
	Cost of 0.03 cum				271.32
	Cost of 1 cum				9044.00
	Say				9044.00

5.15 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam 6.60m long 0.50m deep and 0.30m wide = 6.60x0.50x 0.30 = 0.99 cum.				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.99	4921.70	4872.48 A
	Centring and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	6.90	186.40	1286.16 A
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	1.11	297.00	329.67
	LABOUR:				
	Extra labour for laying cement concrete in RCC work				
0114	Beldar 0.10x0.99	day	0.099	297.00	29.40
0101	Bhisti 0.20x0.99	day	0.198	328.00	64.94
0123	Mason (brick layer) 1 st class 0.04x0.99	day	0.0396	393.00	15.56
0124	Mason (brick layer) 2nd class 0.04x0.99	day	0.0396	361.00	14.30
0128	Mate 0.04x0.99	day	0.0396	328.00	12.99
9999	Cement mortar 1:3 for fixing	L.S.	89.70	1.70	152.49
9999	Labour for hoisting, Transporting and setting in position	L.S.	269.10	1.70	457.47
	TOTAL				7235.46
	Add Water Charges @ 1% except on A i.e on (7,235.46 - 6,158.64 =) 1,076.82				10.77
	TOTAL				7246.23
	Add CPOH @ 15% except on A i.e on (7,246.23 - 6,158.64 =) 1,087.59				163.14
	Cost of 0.99 cum				7409.37
	Cost of 1 cum				7484.21
	Say				7484.20

5.16 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shelf 0.90x0.45x0.04m thick = 0.90x0.45x0.04m = 0.0162 cum.				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.0162	4921.70	79.73 A
	Finisihing				
13.18	Rate as per Item Number 13.18 of SH: Finishing	sqm	0.85	36.35	30.90 A
	Centring and shuttering: 2x(0.90+0.45)x0.04 = 0.108 sqm				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.108	186.40	20.13 A
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.018	297.00	5.35
	LABOUR:				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	Beldar	day	0.016	297.00	4.75
0101	Bhisti	day	0.0032	328.00	1.05
0123	Mason (brick layer) 1 st class	day	0.0006	393.00	0.24
0124	Mason (brick layer) 2nd class	day	0.0006	361.00	0.22
0128	Mate	day	0.0006	328.00	0.20
9999	Cement mortar 1:3 for fixing	L.S.	4.42	1.70	7.51
9999	Labour for hoisting, Transporting and setting	L.S.	13.52	1.70	22.98
	TOTAL				173.06
	Add Water Charges @ 1% except on A i.e on (173.06 - 130.76 =) 42.30				0.42
	TOTAL				173.48
	Add CPOH @ 15% except on A i.e on (173.48 - 130.76 =) 42.72				6.41
	Cost of 0.0162 cum				179.89
	Cost of 1 cum				11104.32
	Say				11104.30

5.17 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4 RCC vertical fins 4m high at lm centre to centre with two horizontal fins, all projecting 60cm from faceof wall and 5 cm thick cubical contents = 0.66 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Cement concrete I:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.66	4921.70	3248.32 A
	Centering and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	2.56	186.40	477.18 A
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.75	297.00	222.75
	LABOUR:				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	Beldar	day	0.066	297.00	19.60
0101	Bhisti	day	0.132	328.00	43.30
0123	Mason (brick layer) 1 st class	day	0.0264	393.00	10.38
0124	Mason (brick layer) 2nd class	day	0.0264	361.00	9.53
0128	Mate	day	0.0264	328.00	8.66
9999	Cement mortar 1:2 for fixing	L.S.	17.94	1.70	30.50
9999	Labour for hoisting, Transporting and setting	L.S.	71.76	1.70	121.99
9999	Sundries	L.S.	17.94	1.70	30.50
	TOTAL				4222.71
	Add Water Charges @ 1% except on A i.e on (4,222.71 - 3,725.50 =) 497.21				4.97
	TOTAL				4227.68
	Add CPOH @ 15% except on A i.e on (4,227.68 - 3,725.50 =) 502.18				75.33
	Cost of 0.66 cum				4303.01
	Cost of 1 cum				6519.71
	Say				6519.70

5.18 Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.

5.18.1 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.00mx0.75m = 1.50 sqm of jali Compld Description Unit				
0768	Cement Concrete Jali 50 mm thick	sqm	1.50	210.00	315.00
9999	Mortar for fixing	L.S.	6.24	1.70	10.61
9999	Carriage and sundries	L.S.	6.20	1.70	10.54
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.30	393.00	117.90
0124	Mason (brick layer) 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.08	297.00	320.76
	TOTAL				883.11
	Add Water Charges @ 1%				8.83
	TOTAL				891.94
	Add CPOH @ 15%				133.79
	Cost of 1.50 sqm				1025.73
	Cost of 1 sqm				683.82
	Say				683.80

5.18.2 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.2mx0.60m = 0.75 sqm of jali.				
0769	Cement Concrete Jali 40 mm thick	sqm	0.75	180.00	135.00
9999	Mortar for fixing	L.S.	3.64	1.70	6.19
9999	Carrriage and sundries	L.S.	3.64	1.70	6.19
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				386.36
	Add Water Charges @ 1%				3.86
	TOTAL				390.22
	Add CPOH @ 15%				58.53
	Cost of 0.75 sqm				448.75
	Cost of 1 sqm				598.33
	Say				598.35

5.18.3 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.375 cum.				
0770	Cement Concrete Jali 25 mm thick	sqm	0.375	150.00	56.25
9999	Mortar for fixing	L.S.	1.82	1.70	3.09
9999	Carriage and sundries	L.S.	1.82	1.70	3.09
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	0.25	297.00	74.25
	TOTAL				181.92
	Add Water Charges @ 1%				1.82
	TOTAL				183.74
	Add CPOH @ 15%				27.56
	Cost of 0.375 sqm				211.30
	Cost of 1 sqm				563.47
	Say				563.45

5.19 Encasing rolled steel sections, in beams and columns, with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering complete but excluding cost of reinforcement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.424 cum Consider 2 R.S. Joists (150mmx80mm) 4.88m long placed 30cm apart centre to centre Overall dimensions of the beam 43cmx20cm MATERIAL: Concrete work : 4.93x0.43x0.20 = 0.424 cum For 1:2:4 Cement Concrete (1 cement: 2 coarse sand : 4 stone aggregate 20mm nominal size)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.424	4921.70	2086.80 A
	Extra labour for laying C.C. in RCC work				
0114	Beldar	day	0.042	297.00	12.47
0101	Bhisti	day	0.085	328.00	27.88
0123	Mason (brick layer) 1 st class	day	0.017	393.00	6.68
0124	Mason (brick layer) 2nd class	day	0.017	361.00	6.14
0128	Mate	day	0.017	328.00	5.58
	Form work-				
	4.93x0.83 girth = 4.09 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	4.09	309.80	1267.08 A
9999	Sundries and for lifting materials	L.S.	21.58	1.70	36.69
	TOTAL				3449.32
	Add Water Charges @ 1% except on A i.e on (3,449.32 - 3,353.88 =) 95.44				0.95
	TOTAL				3450.27
	Add CPOH @ 15% except on A i.e on (3,450.27 - 3,353.88 =) 96.39				14.46
	Cost of 0.424 cum				3464.73
	Cost of 1 cum				8171.53
	Say				8171.55

5.20 Encasing rolled steel section in grillages with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering but excluding cost of expanded metal and hangers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for the grillage 3.50mx3.50mx 1.00m Cement concrete 1:2:4: 3.50mx3.50x 1.00=12.25cum.				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	12.25	4921.70	60290.82 A
	Extra labour for laying C.C. in RCC work				
0114	Beldar	day	1.225	297.00	363.83
0101	Bhisti	day	2.45	328.00	803.60
0123	Mason (brick layer) 1 st class	day	0.49	393.00	192.57
0124	Mason (brick layer) 2nd class	day	0.49	361.00	176.89
0128	Mate	day	0.49	328.00	160.72
	Shuttering :				
	2(3.50+3.50)x1.00= 14.00 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	14.00	309.80	4337.20 A
	TOTAL				66325.63
	Add Water Charges @ 1% except on A i.e on (66,325.63 - 64,628.02 =) 1,697.61				16.98
	TOTAL				66342.61
	Add CPOH @ 15% except on A i.e on (66,342.61- 64,628.02 =) 1,714.59				257.19
	Cost of 12.25 cum				66599.80
	Cost of 1 cum				5436.72
	Say				5436.70

5.21 Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Expanded metal 20 mm x 60 mm and 1.6 mm thick = 10 sqm				
	wastage 5 % = 0.50 sqm				
	Total =10.50 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	10.50	290.00	3045.00
9999	Carriage of expended metal	L.S.	13.52	1.70	22.98
9999	Wire for tieing	L.S.	13.52	1.70	22.98
	Cost of bending and placing in position				
0102	Blacksmith 1 st class	day	0.25	393.00	98.25
0114	Beldar	day	0.25	297.00	74.25
	TOTAL				3263.46
	Add Water Charges @ 1%				32.63
	TOTAL				3296.09
	Add CPOH @ 15%				494.41
	Cost of 10 sqm				3790.50
	Cost of 1 sqm				379.05
	Say				379.05

5.22 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.

5.22.1 Mild steel and Medium Tensile steel bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004`	Average rate of Mild steel round bars for reinforcement	quintal	1.05	4500.00	4725.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.80	9.95
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26. 91	1.70	45.75
	TOTAL				5514.90
	Add Water Charges @ 1%				55.15
	TOTAL				5570.05
	Add CPOH @ 15%				835.51
	Cost of 100 kilogram				6405.56
	Cost of 1 kilogram				64.06
	Say				64.05

5.22.2 Hard drawn steel wire.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	5500.00	5775.00
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	94.80	9.95
	LABOUR:				
	For cutting and laying in position etc				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				6520.70
	Add Water Charges @ 1%				65.21
	TOTAL				6585.91
	Add CPOH @ 15%				987.89
	Cost of 100 kilogram				7573.80
	Cost of 1 kilogram				75.74
	Say				75.75

5.22.3 Cold twisted bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.80	9.95
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26.91	1.70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.22.4 Hot rolled deformed bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % =0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.80	9.95
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26.91	1.70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.22.5 Hard drawn steel wire fabric.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Hard drawn steel wire fabric 100kg/7.75kg = 12.903 sqm				
	Wastage 5 % = 0.64 sqm				
	Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5825.64
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	94.80	9.95
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	1.50	297.00	445.50
9999	Sundries and binding wire	L.S.	13. 52	1.70	22.98
	TOTAL				6420.47
	Add Water Charges @ 1%				64.20
	TOTAL				6484.67
	Add CPOH @ 15%				972.70
	Cost of 100 kilogram				7457.37
	Cost of 1 kilogram				74.57
	Say				74.55

5.22.6 Thermo-Mechanically Treated bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
	Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.80	9.95
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.22A Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.

5.22A.1 Mild steel and Medium Tensile steel bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcement	quintal	1.05	4500.00	4725.00
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.70	44.20
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26.91	1.70	45.75
	MATERIAL:				
	TOTAL				5514.90
	Add Water Charges @ 1%				55.15
	TOTAL				5570.05
	Add CPOH @ 15%				835.51
	Cost of 100 kilogram				6405.56
	Cost of 1 kilogram				64.06
	Say				64.05

5.22A.2 Hard drawn steel wire.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	Wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	5500.00	5775.00
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05q = 0.105 tonne				
	LABOUR:				
	For cutting and laying in position etc				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				6520.70
	Add Water Charges @ 1%				65.21
	TOTAL				6585.91
	Add CPOH @ 15%				987.89
	Cost of 100 kilogram				7573.80
	Cost of 1 kilogram				75.74
	Say				75.75

5.22A.3 Cold twisted bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26.91	1.70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.22A.4 Hot rolled deformed bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % =0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and binding wire	L.S.	26.91	1 .70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.22A.5 Hard drawn steel wire fabric.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Hard drawn steel wire fabric 100kg/7.75kg = 12.903 sqm.,				
	Wastage 5 % = 0.64 sqm				
	Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5825.64
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05q = 0.105 tonne				
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	1.50	297.00	445.50
9999	Sundries and binding wire	L.S.	13.52	1.70	22.98
	TOTAL				6420.47
	Add Water Charges @ 1%				64.20
	TOTAL				6484.67
	Add CPOH @ 15%				972.70
	Cost of 100 kilogram				7457.37
	Cost of 1 kilogram				74.57
	Say				74.55

5.22A.6 Thermo-Mechanically Treated bars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal.				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
	Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4700.00	4935.00
2205	Carriage of steel	tonne	0.105	94.80	9.95
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.70	44.20
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				5724.90
	Add Water Charges @ 1%				57.25
	TOTAL				5782.15
	Add CPOH @ 15%				867.32
	Cost of 100 kilogram				6649.47
	Cost of 1 kilogram				66.49
	Say				66.50

5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Cement mortar 1:3 (cement:3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.072	3844.80	276.83
0155	Mason (average)	day	0.51	377.00	192.27
0115	Coolie	day	0.75	297.00	222.75
0101	Bhisti	day	0.92	328.00	301.76
9999	Extra for removing burrs, cleaning with wire brushes pock marking with pointed tool etc. complete	L.S.	13.39	1.70	22.76
9999	Scaffolding and Sundries	L.S.	11.70	1.70	19.89
	TOTAL				1036.26
	Add Water Charges @ 1%				10.36
	TOTAL				1046.62
	Add CPOH @ 15%				156.99
	Cost of 10 sqm				1203.61
	Cost of 1 sqm				120.36
	Say				120.35

5.24 Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Cement mortar 1:2 (1 Cement: 2 Coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0 .03	5107.40	153.22
	Finishing (Floating coat) with				
0367	Portland Cement	tonne	0.0213	5240.00	111.61
2209	Carriage of cement	tonne	0.0213	94.80	2.02
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	393.00	78.60
0124	Mason (brick layer) 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	0.25	297.00	74.25
9999	Spreading earth on floor (7.5mm thick)	L.S.	35. 49	1.70	60.33
	Spreading sand 15mm thick on floor				
0983	Fine sand (zone IV)	cum	0.15	650.00	97.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.15	106.64	16.00
9999	Disposal of earth spread over floor protection	L.S.	5.33	1.70	9.06
9999	Sundries	L.S.	6.24	1.70	10.61
	TOTAL				685.40
	Add Water Charges @ 1%				6.85
	TOTAL				692.25
	Add CPOH @ 15%				103.84
	Cost of 10 sqm				796.09
	Cost of 1 sqm				79.61
	Say				79.60

5.25 Providing and fixing in position copper plate as per design for expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.56 kg.				
	Considering 3.0 m length, width 250mm and 1.6 mm thick = 0.750 sqm copper plate.				
	Weight of copper plate @ 14.08 kg/m2 10.56kg				
0967	Copper plate	kilogram	10.56	270.00	2851.20
	LABOUR:				
0103	Blacksmith 2nd class	day	0.25	361.00	90.25
9999	Sundries	L.S.	6.24	1.70	10.61
	TOTAL				2952.06
	Add Water Charges @ 1%				29.52
	TOTAL				2981.58
	Add CPOH @ 15%				447.24
	Cost of 10.56 kilogram				3428.82
	Cost of 1 kilogram				324.70
	Say				324.70

5.26 Providing and filling in position, blown bitumen in expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a joint of 300m length 2.5cm width and 15cm depth Cubical content of joint: 300x0.025x0.150=1.125cum.				
	MATERIAL:				
	Bitumen 85/25 @ 1050kg per cum.				
	1.25x1050kg = 1181.25kg				
	Add wastage @ 5% = 59.06 kg.				
	= 1240.31 kg = 1.2401				
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	1.24	37000.00	45880.00
2211	Carriage of tar / bitumen	tonne	1.24	106.64	132.23
0370	Coal (steam)	quintal	2.48	400.00	992.00
	for heating of bitumen @ 2.0 quintal per tonne of bitumen.				
	1.240x2.0=2.48q=0.248t				
	2200 Carriage of steam coal	tonne	0.248	121.88	30.23
	LABOUR:				
	Labour for heating, mixing and filling				
0123	Mason (brick layer) 1 st class	day	2.52	393.00	990.36
0124	Mason (brick layer) 2nd class	day	2.52	361.00	909.72
0114	Beldar	day	8.06	297.00	2393.82
9999	Sundries	L.S.	121.16	1.70	205.97
	TOTAL				51534.33
	Add Water Charges @ 1%				515.34
	TOTAL				52049.67
	Add CPOH @ 15%				7807.45
	Cost of 300m length 2.5cm width and 15cm depth per cm depth per cm width per 100 m				59857.12
	Say				532.06
					532.05

5.27 Providing and filling in position bitumen mix filler of Proportion 80 kg of hot bitumen, 1 kg of cement and 0.25 cubic metre of coarse sand for expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 300m length 2.5cm width and 15cm depth Cubical content of joints: 300x0.150x0.025= 1.125cum.				
	MATERIAL:				
	Bitumen S-90 = 256.30 kg per cum				
	256.30xl.125 = 288.34 kg				
	Add for wastage @ 5% = 14.42 kg				
	Total = 302.76 kg. or = 0.303 tonne				
0309`	Paving bitumen of grade VG-10 of approved quality	tonne	0.303	40000.00	12120.00
2211	Carriage of tar / bitumen	tonne	0.303	106.64	32.31
0370	Coal (steam)	quintal	0.606	400.00	242.40
	for heating of bitumen @ 2.0 quintal per tonne of bitumen, i.e.				
	0.303x2.0=0.606q				
2200	Carriage of steam coal	tonne	0.061	121.88	7.43
0367	Portland Cement	tonne	0.0036	5240.00	18.86
	1/80x228.34=3.6 kg = 0.0036 Tonne				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	0.0036	94.80	0.34
0982	Coarse sand (zone III)	cum	0.90	1120.00	1008.00
	1/4th of the quantity of cement in kg = 3.6/4 = 0.90 cum				
2203	Carriage of coarse sand	cum	0.90	106.64	95.98
	LABOUR:				
	for heating and filling				
0123	Mason (brick layer) 1 st class	day	2.52	393.00	990.36
0124	Mason (brick layer) 2nd class	day	2.52	361.00	909.72
0114	Beldar	day	8.06	297.00	2393.82
9999	Sundries	L.S.	121.16	1.70	205.97
	TOTAL				18025.19
	Add Water Charges @ 1%				180.25
	TOTAL				18205.44
	Add CPOH @ 15%				2730.82
	Cost of 300m length 2.5cm wide and 15cm depth Cost per cm depth per cm width				20936.26
	per 100m				186.10
	Say				186.10

5.28 Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838, including cost of primer, sealing compound in expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for for joint 100m long 10cm deep and 12mm thick.				
	MATERIAL:				
	(i) Impregnated fibre board lxl00x0.075=7.5sqm				
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	7.50	350.00	2625.00
	(ii) Primere 80m/litter 100m=100/80 x1=1.25 lit				
0316	Bitumen solution primer of approved litre quality		1.25	45.00	56.25
	(iii) Sealing compound @ 3 m per litre for 100m = 100/3x1 =33.3 litres				
	Wastage @ 5% = 1.67				
	Total = 35.00 litre				
	(1 litre = 0.9 kg) = 35.00x0.9 = 31.5 kg				
0314	Bitumen hot sealing compound : grade A	kilogram	31.50	26.00	819.00
9999	Carriage	L.S.	26.91	1.70	45.75
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				3756.48
	Add Water Charges @ 1%				37.56
	TOTAL				3794.04
	Add CPOH @ 15%				569.11
	Cost of 100m long 10cm deep				4363.15
	Cost per cm depth per 100m				436.32
	Say				436.30

5.29 Providing and fixing sheet covering over expansion joints with iron screws as per design.

5.29.1 Non-asbestos fibre cement board 6mm thick as per IS : 14862.

5.29.1.1 150 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.00m length.				
	MATERIAL:				
0236	Non- Asbestos Multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	0.47	200.00	94.00
2273	Carriage of A.C.sheet and accessories 0.45sqm = 0.0049 tonne	tonne	0.0049	94.80	0.46
9999	50mm iron screws with washer and raw plugs	L.S.	40.30	1.70	68.51
	LABOUR:				
0112	Carpenter 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				294.57
	Add Water Charges @ 1%				2.95
	TOTAL				297.52
	Add CPOH @ 15%				44.63
	Cost of 3.00 metre				342.15
	Cost of 1 metre				114.05
	Say				114.05

5.29.1.2 200 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.00 m length.				
	MATERIAL:				
0236	Non- Asbestos Multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	0.63	200.00	126.00
2273	Carriage of A.C.sheet and accessories 0.60sqm. = 0.0065 tonne	tonne	0.0065	94.80	0.62
9999	50mm iron screws with washer and rawl	L.S.	53.82	1.70	91.49
	LABOUR:				
0112	Carpenter 2nd class	day	0.27	361.00	97.47
0114	Beldar	day	0.27	297.00	80.19
	TOTAL				395.77
	Add Water Charges @ 1%				3.96
	TOTAL				399.73
	Add CPOH @ 15%				59.96
	Cost of 3.00 metre				459.69
	Cost of 1 metre				153.23
	Say				153.25

5.29.2 Aluminium fluted strips 3.15 mm thick.

5.29.2.1 150 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
2391	Strips-Aluminium fluted 3.15 mm thick and 150mm wide	metre	1.00	228.00	228.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	6.00	35.00	2.10
9999	Carriage of materials	L.S.	1.04	1.70	1.77
	LABOUR:				
0112	Carpenter 2nd class	day	0.067	361.00	24.19
0114	Beldar	day	0.067	297.00	19.90
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				279.05
	Add Water Charges @ 1%				2.79
	TOTAL				281.84
	Add CPOH @ 15%				42.28
	Cost of 1 metre				324.12
	Say				324.10

5.29.2.2 200 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
2392`	Strips Aluminium fluted 3.15 mm thick and 200mm wide	metre	1.00	323.00	323.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	6.00	35.00	2.10
9999	Carriage of materials	L.S.	1.30	1.70	2.21
	LABOUR:				
0112	Carpenter 2nd class	day	0.089	361.00	32.13
0114	Beldar	day	0.089	297.00	26.43
9999	Sundries	L.S.	2.34	1.70	3.98
	TOTAL				389.85
	Add Water Charges @ 1%				3.90
	TOTAL				393.75
	Add CPOH @ 15%				59.06
	Cost of 1 metre				452.81
	Say				452.80

5.30 Add for plaster drip course / groove in plastered surface or moulding to R.C.C. projections.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 metre long throating or plaster or moulding.				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.50	393.00	196.50
0124	Mason (brick layer) 2nd class	day	0.50	361.00	180.50
0115	Coolie	day	1.00	297.00	297.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Add for material (cement mortar etc.)	L.S.	26.91	1.70	45.75
	TOTAL				719.75
	Add Water Charges @ 1%				7.20
	TOTAL				726.95
	Add CPOH @ 15%				109.04
	Cost of 30 metre				835.99
	Cost of 1 metre				27.87
	Say				27.85

5.31 Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. Note:- The quantity will be calculated by multiplying the depth measured from the subsoil water level upto the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under subsoil water conditions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for depth of water 0.30m.				
	Quantity of concrete = 14 cum.				
	Analysis same as per item number 4.15				
	Pumping hours = 3 hrs. or 0.375 day				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	550.00	206.25
	for cleaning slush				
0114	Beldar	day	4.00	297.00	1188.00
	TOTAL				1394.25
	Add Water Charges @ 1%				13.94
	TOTAL				1408.19
	Add CPOH @ 15%				211.23
	Cost of 14cum. per 0.30m depth				1619.42
	Cost of 1 cum				385.58
	Say				385.60

5.32 Extra for laying reinforced cement concrete in or under foul positions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Analysis same as per item number 4.16				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	393.00	7.86
0124	Mason (brick layer) 2nd class	day	0.02	361.00	7.22
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	0.15	297.00	44.55
	TOTAL				133.88
	Add Water Charges @ 1%				1.34
	TOTAL				135.22
	Add CPOH @ 15%				20.28
	Cost of 1 cum				155.50
	Say				155.50

5.33 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.

Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.

5.33.1 All work upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	38.00	62.70
	Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				4911.28
	Add Water Charges @ 1%				49.11
	TOTAL				4960.39
	Add CPOH @ 15%				744.06
	Cost of 1 cum				5704.45
	Say				5704.45

5.33.2 All work above plinth level upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0 .85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	38.00 6	2.70
	Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
	0115 Coolie	day	1.88	297.00	558.36
	TOTAL				5469.64
	Add Water Charges @ 1%				54.70
	TOTAL				5524.34
	Add CPOH @ 15%				828.65
	Cost of 1 cum				6352.99
	Say				6353.00

5.34 Extra for providing richer mixes at all floor levels.
Note:- Excess/ less cement over the specified cement content used is payable/ recoverable separately.

5.34.1 Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum .				
	Cement for M-30 mix = 0.340 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.010 t				
0367	Portland Cement	tonne	0.01	5240.00	52.40
2209	Carriage of cement	tonne	0.01	94.80	0.95
	Plasticizer for M-30 mix = 1.70 kg				
	Plasticizer for M-25 mix =1.65 kg				
	Difference = 0.05 kg				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7318	Plasticizer / super plasticizer	kilogram	0 .05	38.00	1.90
	TOTAL				55.25
	Add Water Charges @ 1%				0.55
	TOTAL				55.80
	Add CPOH @ 15%				8.37
	Cost of 1 cum				64.17
	Say				64.15

5.34.2 Providing M-35 grade concrete instead of M-25 grade BMC/RMC. (Note : Cement content considered in M-35 is @ 350 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum .				
	Cement for M-35 mix = 0.350 t				
	Cement for M-25 mix = 0.330 t				
	Difference 0.020 t				
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.02	94.80	1.90
	Plasticizer for M-35 mix = 1.75 kg				
	Plasticizer for M-25mix = 1.65 kg				
	Difference = 0.10 kg				
7318	Plasticizer / super plasticizer	kilogram	0.10	38.00	3.80
	TOTAL				110.50
	Add Water Charges @ 1%				1.10
	TOTAL				111.60
	Add CPOH @ 15%				16.74
	Cost of 1 cum				128.34
	Say				128.35

5.34.3 Providing M-40 grade concrete instead of M-25 grade BMC/RMC.(Note : Cement content considered in M-40 is @ 360 kg/cum).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum .				
	Cement for M-40 mix = 0.360 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.030 t				
0367	Portland Cement	tonne	0.03	5240.00	157.20
2209	Carriage of cement	tonne	0.03	94.80	2.84
	Plasticizer for M-40 mix =1.8 kg				
	Plasticizer for M-25mix = 1.65 kg				
	Difference = 0.15 kg				
7318	Plasticizer / super plasticizer	kilogram	0.15	38.00	5.70
	TOTAL				165.74
	Add Water Charges @ 1%				1.66
	TOTAL				167.40
	Add CPOH @ 15%				25.11
	Cost of 1 cum				192.51
	Say				192.50

5.35 Add for using extra cement in the items of design mix over and above the specified cement content therein.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 qunital.				
0367	Portland Cement	tonne	0.10	5240.00	524.00
2209	Carriage of cement	tonne	0.10	94.80	9.48
	TOTAL				533.48
	Add Water Charges @ 1%				5.33
	TOTAL				538.81
	Add CPOH @ 15%				80.82
	Cost of 1 quintal				619.63
	Say				619.65

5.36 Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular as per design and shape for floors and roofs in 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints in cement mortar 1:2 (1 cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but excluding the cost of reinforcement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.38 cum. Consider a waffle 09. x 0.9 x 0.3m Total area covered 4.548 x 3.636 = 16.54 sqm. Cement concrete in 1unit Top 0.8 x 0.8 x 0.035 = 0.0224 sides 2(0.8 x 0.265 x 0.0325) = 0.0138 2(0.735 x 0.265 x 0.0325) = 0.0127 Total = 0.0489 Flange 4 x 0.85 x 0.05 x 0.035 = 0.0060 Total = 0.0549 Add for Fillets 25% = 0.0137 Total = 0.069 cum. Quantity for 20 such units = 1.38 cum				
5.2.2	Rate as per Item Number 5.2.2 of SH: Reinforced cement concrete work (i) Shuttering and centring Face in contact 4 x 0.8 x 0.265 = 0.848 Inner 4 x 0.735 x 0.265 = 0.779 Top (inside) 1 x 0.735 x 0.735 = 0.540 Flange 4 x 0.9 x 0.035 = 0.126 Total = 2.293 sqm. Quantity 20 such units 45.86 sqm	cum	1.38	6319.20	8720.50 A
5.9.15	Rate as per Item Number 5.9.15 of SH: Reinforced cement concrete work Hooks for lifting 2 x 1.5 = 3.0 m 4 x 0.01 = 0.04 m = 3.04 m @ 3 kg per m 9.12 kg or 0.009 t	sqm	45.86	186.40	8548.30 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) 10 mm dia. Bolts 60 mm long with nuts and washers 2 x 2 = 4Nos				
10.2	Rate as per Item Number 10.2 of SH: Steel work	kg	9.00	73.65	662.85 A
9999	Including carriage of bolts	L.S.	13.00	1.70	22.10
9999	Sundries	L.S.	79.95	1.70	135.92
	(iv) Transportation and erection labour for 20 units				
0126	Mason (for ornamental stone work) 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	6.00	297.00	1782.00
	(v) Cost of pointing flush or deep ruled in cement mortar 1:2 (1 Cement : 2 fine sand)				
13.35.1	Rate as per Item Number 13.35.1 of SH: Finishing	sqm	16.54	78.15	1292.60 A
	TOTAL				21557.27
	Add Water Charges @ 1% except on A i.e on (21,557.27 - 19,224.25 =) 2,333.02				23.33
	TOTAL				21580.60
	Add CPOH @ 15% except on A i.e on (21,580.60 - 19,224.25 =) 2,356.35				353.45
	Cost of 1.38 cum				21934.05
	Cost of 1 cum				15894.24
	Say				15894.25

5.37 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note:- Cement content considered in this item is @ 330 kg/ cum. Excess/ less cement used as per design mix is payable/ recoverable separately.

5.37.1 All work upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	38.00	62.70
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer km /	cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	Labour for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				5211.28
	Add Water Charges @ 1%				52.11
	TOTAL				5263.39
	Add CPOH @ 15%				789.51
	Cost of 1 cum				6052.90
	Say				6052.90

5.37.2 All work above plinth level upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1200.00	684.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	106.64	90.64
0982	Coarse sand (zone III)	cum	0.425	1120.00	476.00
2203	Carriage of coarse sand	cum	0.425	106.64	45.32
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	38.00	62.70
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/ cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	Labour for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5769.64
	Add Water Charges @ 1%				57.70
	TOTAL				5827.34
	Add CPOH @ 15%				874.10
	Cost of 1 cum				6701.44
	Say				6701.45

5.38 Extra for R.C.C. / B.M.C / R.M.C. work above floor V level for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	TOTAL				150.00
	Add Water Charges @ 1%				1.50
	TOTAL				151.50
	Add CPOH @ 15%				22.72
	Cost of 1 cum				174.22
	Say				174.20

5.40 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note:- (1) Cement content considered in this item is @330 kg/ cum. Excess/ less cement used as per design mix is payable /recoverable separately.
(2) Fly ash conforming to grade I of IS: 3812 (part-1) only be used as part replacement of OPC as per IS: 456. Uniform blending with cement to be ensured in accordance with clause 5.2 and 5.2.1 of IS: 456 - 2000 in the items of BMC and RMC.

5.40.1 All works up to Plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28
7318	Plasticizer / super plasticizer	kilogram	1 .65	38.00	62.70
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				5138.14
	Add Water Charges @ 1%				51.38
	TOTAL				5189.52
	Add CPOH @ 15%				778.43
	Cost of 1 cum				5967.95
	Say				5967.95

5.40.2 All works above plinth & up to floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1000.00	650.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1200.00	288.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.92	75.35
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.64	25.59
0982	Coarse sand (zone III)	cum	0.37	1120.00	414.40
2203	Carriage of coarse sand	cum	0.37	106.64	39.46
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	106.64	22.39
0367	Portland Cement	tonne	0.33	5240.00	1729.20
2209	Carriage of cement	tonne	0.33	94.80	31.28
7318	Plasticizer / super plasticizer	kilogram	1.65	38.00	62.70
	Production cost, carriage to site, pumping to respective floors and laying in position.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	377.00	64.09
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.90	328.00	295.20
0012	Vibrator (Needle type 40 mm)	day	0.07	325.00	22.75
9999	Sundries	L.S.	13.00	1.70	22.10
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.88	297.00	558.36
	TOTAL				5696.50
	Add Water Charges @ 1%				56.96
	TOTAL				5753.46
	Add CPOH @ 15%				863.02
	Cost of 1 cum				6616.48
	Say				6616.50

5.41 Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.

5.41.1 Non pigmented wet curing compound.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7178	Chemical ASTMC-type I	kg	2.00	110.00	220.00
	Coverage of chemical 5 sqm per kg.				
	Chemical required for 10 sqm = 10 /5 = 2.00 kg				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.46	361.00	166.06
0115	Coolie	day	0.23	297.00	68.31
0101	Bhisti	day	0.10	328.00	32.80
9999	Scaffolding and sundries	L.S.	8.06	1.70	13.70
	Extra labour for clean up process				
0114	Beldar	day	0.75	297.00	222.75
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.00	1.70	136.00
	TOTAL				859.62
	Add Water Charges @ 1%				8.60
	TOTAL				868.22
	Add CPOH @ 15%				130.23
	Cost of 10 sqm				998.45
	Cost of 1 sqm				99.85
	Say				99.85

5.41.2 Pigmented wet curing compound.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details cost for 10 sqm.				
	Based on DAR item 13.44.1				
	MATERIAL:				
7281	Chemical ASTMC-type II	kg	2.00	170.00	340.00
	Coverage of chemical 5 sqm per kg.				
	Chemical required for 10 sqm = 10 /5 = 2 kg				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.46	361.00	166.06
0115	Coolie	day	0.23	297.00	68.31
0101	Bhisti	day	0.10	328.00	32.80
9999	Scaffolding and sundries	L.S.	8.06	1.70	13.70
	Extra labour for clean up process				
0114	Beldar	day	0.75	297.00	222.75
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.00	1.70	136.00
	TOTAL				979.62
	Add Water Charges @ 1%				9.80
	TOTAL				989.42
	Add CPOH @ 15%				148.41
	Cost of 10 sqm				1137.83
	Cost of 1 sqm				113.78
	Say				113.80

5.42 Providing and fixing tapered / parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement – Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works as per direction of Engineer-in-Charge . (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made).

5.42.1 Coupler for 16 mm diameter reinforcement bar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one.				
	MATERIAL:				
2394	Coupler 16 mm dia	each	1.00	67.00	67.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	3.77	1.70	6.41
9999	Tapered / Parallel threading charges	L.S.	17.77	1.70	30.21
	TOTAL				103.62
	Add Water Charges @ 1%				1.04
	TOTAL				104.66
	Add CPOH @ 15%				15.70
	Cost of each				120.36
	Say				120.35

5.42.2 Coupler for 20 mm diameter reinforcement bar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one.				
	MATERIAL:				
2395	Coupler 20 mm dia	each	1.00	88.00	88.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	5.90	1 .70	10.03
9999	Tapered / Parallel threading charges	L.S.	25.17	1.70	42.79
	TOTAL				140.82
	Add Water Charges @ 1%				1.41
	TOTAL				142.23
	Add CPOH @ 15%				21.33
	Cost of each				163.56
	Say				163.55

5.42.3 Coupler for 25 mm diameter reinforcement bar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one.				
	MATERIAL:				
2396	Coupler 25 mm dia	each	1.00	130.00	130.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	8.69	1.70	14.77
9999	Tapered / Parallel threading charges	L.S.	29.61	1.70	50.34
	TOTAL				195.11
	Add Water Charges @ 1%				1.95
	TOTAL				197.06
	Add CPOH @ 15%				9.56
	Cost of each				226.62
	Say				226.60

5.42.4 Coupler for 28 mm diameter reinforcement bar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one.				
	MATERIAL:				
2397	Coupler 28 mm dia	each	1.00	192.00	192.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	12.84	1.70	21.83
9999	Tapered / Parallel threading charges	L.S.	32.57	1.70	55.37
	TOTAL				269.20
	Add Water Charges @ 1%				2.69
	TOTAL				271.89
	Add CPOH @ 15%				40.78
	Cost of each				312.67
	Say				312.65

5.42.5 Coupler for 32 mm diameter reinforcement bar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one.				
	MATERIAL:				
2398	Coupler 32 mm dia	each	1.00	231.00	231.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	15.48	1.70	26.32
9999	Tapered / Parallel threading charges	L.S.	32.57	1.70	55.37
	TOTAL				312.69
	Add Water Charges @ 1%				3.13
	TOTAL				315.82
	Add CPOH @ 15%				47.37
	Cost of each				363.19
	Say				363.20

5.43 Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.

5.43.1 200 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	1.60	275.00	440.00
8647	Stainless steel screws 30 mm x4 mm 100	Nos	6.00	29.00	1.74
9999	Carriage of materials	L.S.	1.30	1.70	2.21
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	361.00	24.19
0114	Beldar	day	0.067	297.00	19.90
9999	Sundries	L.S.	2.34	1.70	3.98
	TOTAL				492.02
	Add Water Charges @ 1%				4.92
	TOTAL				496.94
	Add CPOH @ 15%				74.54
	Cost of 1 metre				571.48
	Say				571.50

5.43.2 300 mm wide.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	2.40	275.00	660.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	6.00	29.00	1.74
9999	Carriage of materials	L.S.	1.30	1.70	2.21
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	361.00	24.19
0114	Beldar	day	0.067	297.00	19.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.34	1.70	3.98
	TOTAL				712.02
	Add Water Charges @ 1%				7.12
	TOTAL				719.14
	Add CPOH @ 15%				107.87
	Cost of 1 metre				827.01
	Say				827.00

5.44 Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge . (Material shall confirm to ASTM 6063).

5.44.1 Floor Joint of 100 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2403	Floor Joint of 100 mm	metre	1.00	4500.00	4500.00
2402	Epoxy adhesive	kg	4.25	150.00	637.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				5453.33
	Add Water Charges @ 1%				54.53
	TOTAL				5507.86
	Add CPOH @ 15%				826.18
	Cost of 1 metre				6334.04
	Say				6334.05

5.44.2 Floor Joint of 150 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2404	Floor Joint of 150 mm	metre	1.00	5000.00	5000.00
2402	Epoxy adhesive	kg	4.50	150.00	675.00
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				5990.83
	Add Water Charges @ 1%				59.91
	TOTAL				6050.74
	Add CPOH @ 15%				907.61
	Cost of 1 metre				6958.35
	Say				6958.35

5.44.3 Floor Joint of 200 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2405	Floor Joint of 200 mm	metre	1.00	5400.00	5400.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				6428.33
	Add Water Charges @ 1%				64.28
	TOTAL				6492.61
	Add CPOH @ 15%				973.89
	Cost of 1 metre				7466.50
	Say				7466.50

5.45 Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221-02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).

5.45.1 Wall Joint of 100 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2409	Wall Joint of 100 mm	metre	1.00	3400.00	3400.00
2402	Epoxy adhesive	kg	4.25	150.00	637.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				4353.33
	Add Water Charges @ 1%				43.53
	TOTAL				4396.86
	Add CPOH @ 15%				659.53
	Cost of 1 metre				5056.39
	Say				5056.40

5.45.2 Wall Joint of 150 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2410	Wall Joint of 150 mm	metre	1.00	3700.00	3700.00
2402	Epoxy adhesive	kg	4.50	150.00	675.00
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				4690.83
	Add Water Charges @ 1%				46.91
	TOTAL				4737.74
	Add CPOH @ 15%				710.66
	Cost of 1 metre				5448.40
	Say				5448.40

5.45.3 Wall Joint of 200 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
2411	Wall Joint of 200 mm	metre	1.00	4000.00	4000.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				5028.33
	Add Water Charges @ 1%				50.28
	TOTAL				5078.61
	Add CPOH @ 15%				761.79
	Cost of 1 metre				5840.40
	Say				5840.40

5.46 Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.

5.46.1 Roof Joint of 100 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL				
2399	Complete Roof Joint of 100 mm	metre	1.00	4500.00	4500.00
2402	Epoxy adhesive	kg	4.25	150.00	637.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				5453.33
	Add Water Charges @ 1%				54.53
	TOTAL				5507.86
	Add CPOH @ 15%				826.18
	Cost of 1 metre				6334.04
	Say				6334.05

5.46.2 Roof Joint of 150 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2400	Complete Roof Joint of 150 mm	metre	1.00	4800.00	4800.00
2402	Epoxy adhesive	kg	4.50	150.00	675.00
9999	Carriage of material etc	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1 st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				5790.83
	Add Water Charges @ 1%				57.91
	TOTAL				5848.74
	Add CPOH @ 15%				877.31
	Cost of 1 metre				6726.05
	Say				6726.05

5.46.3 Roof Joint of 200 mm gap.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 metre.				
	MATERIAL:				
2401	Complete Roof Joint of 200 mm	metre	1.00	5000.00	5000.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9999	Carriage of material etc.	L.S.	124.90	1.70	212.33
	LABOUR:				
0102	Blacksmith 1st class	day	0.05	393.00	19.65
0123	Mason (brick layer) 1st class	day	0.10	393.00	39.30
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				6028.33
	Add Water Charges @ 1%				60.28
	TOTAL				6088.61
	Add CPOH @ 15%				913.29
	Cost of 1 metre				7001.90
	Say				7001.90

5.47 Providing and fixing in position factory made precast RCC M-40 doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc all complete, as per the direction of Engineer in charge. (The cost of hold fast and cc block of 1:3:6 mix is also included in the item.) The frame shall be measured in running meter correct to two places of decimal.

5.47.1 Door frame 125 mm x 60 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.20 metre.				
	MATERIAL:				
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	0.039	5704.45	222.47 AP
5.34.3	Rate as per Item Number 5.34.3 of SH: Reinforced cement concrete work	cum	0.039	192.50	7.51 AQ
	Extra for scatter and smaller work @25 % (P + Q) x 0.25 = (222.47 + 7.51) x 0.25				
1005	Twisted steel/ deformed bars	quintal	0.0468	4700.00	219.96
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	6	60.00	36.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.27	423.00	537.21 A
14.2.1	Rate as per Item Number 14.2.1 of SH: Repairs to Building	each	1.00	719.20	719.20 A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.27	76.65	97.35 A
9999	Sundries	L.S.	100.67	1.70	171.14
	TOTAL				2068.34
	Add Water Charges @ 1% except on A i.e on (2,068.34 - 1,583.74 =) 484.60				4.85
	TOTAL				2073.19
	Add CPOH @ 15% except on A i.e on (2,073.19 - 1,583.74 =) 489.45				73.42
	Cost of 5.20 metre				2146.61
	Cost of 1 metre				412.81
	Say				412.80

5.47.2 Door frame 100 mm x 60 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.20 metre.				
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	0.031	5704.45	176.84 AP
5.34.3	Rate as per Item Number 5.34.3 of SH: Reinforced cement concrete work	cum	0.031	192.50	5.97 AQ
	Extra for scatter and smaller work @25 % (P + Q) x 0.25 = (176.84 + 5.97)x 0.25				45.70
1005	Twisted steel/ deformed bars	quintal	0.0372	4700.00	174.84
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	6.00	60.00	36.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.14	423.00	482.22 A
14.2.1	Rate as per Item Number 14.2.1 of SH: Repairs to Building	each	1.00	719.20	719.20 A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.14	76.65	87.38 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	100.67	1.70	171.14
	TOTAL				1899.29
	Add Water Charges @ 1% except on A i.e on (1,899.29 - 1,471.61 =) 427.68				4.28
	TOTAL				1903.57
	Add CPOH @ 15% except on A i.e on (1,903.57 -1,471.61 =) 431.96				64.79
	Cost of 5.20 metre				1968.36
	Cost of 1 metre				378.53
	Say				378.55

5.47.3 Door frame 85 mm x 60 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.20 metre.				
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	0.027	5704.45	154.02 AP
5.34.2	Rate as per Item Number 5.34.2 of SH: Reinforced cement concrete work	cum	0.027	128.35	3.47 AQ
	Extra for scatter and smaller work @25 % (P + Q) x 0.25 = (154.02 + 3.47)x 0.25				39.37
1005	Twisted steel/ deformed bars	quintal	0.0324	4700.00	152.28
0596	Bright finished or black enameled mild steel butt thinges 75x47x1.70 mm	10 nos	6.00	60.00	36.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.07	423.00	452.61 A
14.2.1	Rate as per Item Number 14.2.1 of SH: Repairs to Building	each	1.00	719.20	719.20 A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.07	76.65	82.02 A
9999	Sundries	L.S.	100.67	1.70	171.14
	TOTAL				1810.11
	Add Water Charges @ 1% except on A i.e on (1,810.11 - 1,411.32 =) 398.79				3.99
	TOTAL				1814.10
	Add CPOH @ 15% except on A i.e on (1,814.10 - 1,411.32 =) 402.78				60.42
	Cost of 5.20 metre				1874.52
	Cost of 1 metre				360.49
	Say				360.50

5.48 Providing and laying Reinforced cement concrete for construction of piers, abutments, portal frames, pier caps and bearing pedestals and seismic arresters over pier/ abutment caps at all locations with specified grade using Ordinary Portland Cement (conforming to strength requirement of IS:8112) including the cost of steel centering and shuttering etc. complete including testing of materials etc. for casting pier & pier cap in one/two stage, necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts and depths true to level and position but excluding the cost of providing reinforcement. Reinforcement shall be measured and paid separately. Cement content considered in this item is 480 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately.

5.48.1 Reinforced Cement Concrete M50.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 120.00.				
5.48X	Annexure for item 5.48.1 Providing M 50 grade reinforced Cement Concrete data for 120.00 cum Add 11 per cent of cost of material, labour and machinery for formwork	each	1.00	561929.40	561929.40 P
	P x 11 /100 = 561929.40 x 11 /100				61812.23
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	P x 1.4 /100 = 561929.40 x 1.4 /100				7867.01
	TOTAL				631608.64
	Add Water Charges @ 1%				6316.09
	TOTAL				637924.73
	Add CPOH @ 15%				95688.71
	Cost of 120.00 cum				733613.44
	Cost of 1 cum				6113.45
	Say				6113.45

5.48.2 Reinforced Cement Concrete M60.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 120.00 cum.				
5.48Y	Annexure for item 5.48.2 Providing M 60 grade reinforced Cement Concrete data for 120.00 cum Add 11 per cent of cost of material, labour and machinery for formwork	each	1.00	664559.60	664559.60 P
	P x 11 /100 = 664559.60 x 11 /100				73101.56
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	P x 1.4 /100 = 664559.60 x 1.4 /100				9303.83
	TOTAL				746964.99
	Add Water Charges @ 1%				7469.65
	TOTAL				754434.64
	Add CPOH @ 15%				113165.20
	Cost of 120.00 cum				867599.84
	Cost of 1 cum				7230.00
	Say				7230.00

5.48.3 Extra for using M50/M60 grade self-compacting Reinforced Cement Concrete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum.				
5.48.3X	Rate as per item no. 5.48.3X	cum	1.00	7862.10	7862.10 P
5.48.2	Rate as per item no. 5.48.2	cum	1.00	7230.00	7230.00 Q
	P - Q = 7862.10 - 7230.00 632.10				
	Cost of 1 cum				632.10
	Say				632.10

5.48.3X M60 grade Self-compacting Reinforced Cement Concrete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 120.00 cum.				
5.48Z	Annexure for item 5.48.3 , Extra for using M 60 grade Self Compacting Reinfroced cement Concrete data for 120.00 cum grade Self Compacting Reinfroced cement Concrete data for 120.00 cum	each	1.00	722659.70	722659.70 P
	Add 11 per cent of cost of material, labour and machinery for formwork				
	P x 11 /100 = 722659.70 x 11 /100				79492.57
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	P x 1.4 /100 = 722659.70 x 1.4 /100				10117.24
	TOTAL				812269.50
	Add Water Charges @ 1%				8122.70
	TOTAL				820392.20
	Add CPOH @ 15%				123058.83
	Cost of 120.00cum				943451.03
	Cost of 1 cum				7862.09
	Say				7862.10

5.48X Annexure for item 5.48.1 , Providing M 50 grade Reinfroced cement Concrete data for 120.00 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for each.				
	RCC Grade M50				
	Unit = 1 cum				
	Taking output = 120 cum				
	MATERIAL:				
0367	Portland Cement	tonne	57.60	5240.00	301824.00
0982	Coarse sand (zone III)	cum	54.00	1120.00	60480.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.80	1200.00	77760.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.20	1050.00	45360.00
7318	Plasticizer / super plasticizer	kilogram	223.20	38.00	8481.60
	LABOUR:				
0128	Mate	day	0.94	328.00	308.32
0123	Mason (brick layer) 1 st class	day	3.50	393.00	1375.50
0114	Beldar	day	20.00	297.00	5940.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.60	700.00	1120.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.60	800.00	1280.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Distance = 10 km				
	Qty= 120.00 cum				
	Total = 120.00x 10= 1200				
0029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	150.00	18000.00
	TOTAL				561929.42
	Cost of each				561929.42
	Say				561929.40

5.48Y Annexure for item 5.48.2 , Providing M 60 grade Reinfroced cement Concrete data for 120.00 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for each.				
	RCC Grade M60				
	Unit = 1 cum				
	Taking output = 120 cum				
0367	Portland Cement	tonne	57.60	5240.00	301824.00
0982	Coarse sand (zone III)	cum	54.98	1120.00	61577.60
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	57.54	1200.00	69048.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	38.22	1050.00	40131.00
7318	Plasticizer / super plasticizer	kilogram	230.40	38.00	8755.20
8953	Micro Silica	kg	3600	32.00	115200.00
	LABOUR:				
0128	Mate	day	0.94	328.00	308.32
0123	Mason (brick layer) 1 st class	day	3.50	393.00	1375.50
0114	Beldar	day	20.00	297.00	5940.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.60	700.00	1120.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.60	800.00	1280.00
	Distance = 10 km				
	Qty= 120.00 cum				
	Total = 120.00x 10= 1200				
0029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	150.00	18000.00
	TOTAL				664559.62
	Cost of each				664559.62
	Say				664559.60

5.48Z Annexure for item 5.48.3 , Extra for using M 60 grade Self Compacting Reinfroced cement Concrete data for 120.00 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for each. Extra for using M60 grade Self-compacting Reinforced Cement Concrete RCC Grade M60 self compacting concrete Using Batching Plant, Transit Mixer and Conrete Pump Unit ; cum Taking Output = 120 cum MATERIAL:				
0367	Portland Cement	tonne	57.60	5240.00	301824.00
0982	Coarse sand (zone III)	cum	54.00	1120.00	60480.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.80	1200.00	77760.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.20	1050.00	45360.00
8953	Micro Silica	kg	5040.00	32.00	161280.00
7318	Plasticizer / super plasticizer	kilogram	230.40	38.00	8755.20
	LABOUR:				
0128	Mate	day	0.84	328.00	275.52
0123	Mason (brick layer) 1 st class	day	3.00	393.00	1179.00
0114	Beldar	day	18.00	297.00	5346.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.60	700.00	1120.00
0052	Front end loader 1 cum bucket capacity (incl POL) Distance = 10 km Qty= 120.00 cum Total = 120.00x 10= 1200	hour	1.60	800.00	1280.00
0029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	150.00	18000.00
	TOTAL				722659.72
	Cost of each				722659.72
	Say				722659.70

5.49 Constructing cast-in situ RCC diaphragm wall by providing and laying machine batched, machine mixed, self compacting, ready mix reinforced cement concrete, tramie controlled, of M 30 grade using minimum 400 kg. cement per cum of concrete including providing and mixing required admixtures in recommended proportions as per IS : 9103, as approved by the Engineer-in-charge, for achieving 150- 200mm slump, for diaphragm wall having thickness as per approved structural design not exceeding 600 mm, in pannels of required depth and lengths as per approved drawing, including constructing necessary guide walls as required and as specified including boring in all kinds of soils and rocks, including working in or under water

and / or liquid mud, in foul conditions and pumping or bailing out of water and removing slush, including disposal of earth/ rock / slush etc. for all leads and all lifts, including preparing, providing and re-circulating bentonite slurry in the trench as and when required for all depths, including agitating bentonite slurry during trenching etc., providing and fixing stop ends or form tubes, upto the required depth of diaphragm wall including extracting the same after casting, including chipping off the bentonite adulterated concrete or unsound concrete up to the cut off level for obtaining the sound concrete, dressing undulations on the exposed face of diaphragm wall after excavation by chipping / chiseling etc. including filling the depression/ cavities with sound concrete etc. complete and as directed by the Engineer-in-charge, including providing recess for bearing plates and fixing insert boxes for inclined rock anchors etc. complete as per the specifications and approved design and as directed by the Engineer-in- charge, .but excluding the cost of reinforcement and inserts. (rates include cost of all inputs of labour, material and T & P, cost of handling, lifting & placing in position the reinforcement cage in the trench, including the additional cost of welding the reinforcement bars etc. involved in the work and all other incidental expenditure for completing the work as directed by the Engineer-in-charge), However, the actual area of the diaphragm wall, correct to two places of decimal, from design bottom level to the design cut off level (including portion anchored in the rock upto the design bottom level) only shall be measured for payment.

Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 144.0 cum. Analysis for 20x12=240 Sqmt area of diaphragm wall Average depth 12 m Thickness 0.60 m Total Quantity 20 mx12 m x0.6 m= 144.00 cum				
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	240.00	1500.00	360000.00
	Guide wall RCC 1:2:4 RCC 2x20x(0.45+1.5)x.15 = 11.70 cum				
5.1.3	Rate as per Item Number 5.1.3 of SH: Reinforced cement concrete work	cum	11.70	5156.20	60327.54 A
	Reinforcement@ 70 kg/Cum for guide wall= 11.70x 70 kg/cum= 819 kg				
5.22.6	Rate as per Item Number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	819.00	66.50	54463.50 A
	Add for chipping/dismantling top 50 cm contaminated concrete =20 x 0.50 x 0.60= 6.00 cum RMC M-30 as per qty=144.00 cum Add 10% extra for bulges etc. i.e. 14.40 cum Total=144.00+6.00+14.40= 164.40 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	164.40	5704.45	937811.58 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.34.1	Rate as per Item Number 5.34.1 of SH: Reinforced cement concrete work Bentonite @6% of RCC qty Total Qty= 164.4x06x1400/100= 13810 kg= 13.81 tonne	cum	164.40	64.15	10546.26 A
7183	Bentonite Add 10 %extra cement due to concreting under water 164.4x420x0.10=6.90 tonne	tonne	13.81	3100.00	42811.00
0367	Portland Cement Add cement for grouting of wall using nozzles etc.- 240 sqm @ 0.10 quintal/sqm =2.40 tonne	tonne	6.90	5240.00	36156.00
0367	Portland Cement	tonne	2.40	5240.00	12576.00
2209	Carriage of cement	tonne	2.40	94.80	227.52
0025	Hire and running charges of light crane Reinforcement @220 kg/cum 164.4x220kg/cum=36168 kg Extra reinforcement for hooks @ 5% of cage 1808.4 kg Total=1808.4 kg=18.084 qtl	day	1.00	2200.00	2200.00
1005	Twisted steel/ deformed bars Extra for welding reinforcement cage Reinforcement @ 200 C/C 2 x 101 x 61 = 6161 joints Welding for alternate joint say 50 % joints 6161 cm	quintal	18.084	4700.00	84994.80
10.22	Rate as per Item Number 10.22 of SH: 10 Steel work	cm	6161.00	2.85	17558.85 A
9999	Labour for grouting diaphragm wall under pressure i/c fixing nozzle etc. Add for use retarders / plasticizers for the diaphragm wall concreting using trimme @ 0.4 % cement qty = (164.4 x 420 x 0.4)/ 100=276.19	L.S.	23530.00	1.70	40001.00
7318	Plasticizer / super plasticizer	kilogram	276.19	38.00	10495.22
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	240.00	4.50	1080.00
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	240.00	72.00	17280.00
0026	Hire and running charges of bentonite pump Bentonite powder @ 6% of R.C.C. Qty= (164.4 Cum x 0.06)=9.864 cum 9.864 cum x 1400 kg/cum = 13809.6 kg Disposal of bentonite muck Slurry / Muck vol. 49.32 cum Disposal of bentonite muck Slurry / Muck vol. 49.32 cum Add excavated earth = 144.00 cum Total= 144.00 + 49.32 = 193.32 cum	day	2.00	4200.00	8400.
15.60	Rate as per Item Number 15.60 of SH: 15 Dismantling and Demolishing Disposal of Chipping / Dismantling of contaminated concrete and guide wall etc. with all leads as per item no. 15.3 = 2x(20x0.50x0.60) + 15.00 cum = 20.40 cum	cum	193.32	123.85	23942.68 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
15.3	Rate as per Item Number 15.3 of SH: Dismantling and demolishing	cum	20.40	1176.40	23998.56 A
9999	Sundries(Extra for concreting by Trimme)	L.S.	1177.00	1.70	2000.90
9999	Sundries (Design Charges)	L.S.	19200.00	1.70	32640.00
	TOTAL				1779511.41
	Add Water Charges @ 1% except on A i.e on (17,79,511.41 - 11,28,648.97 =) 6,50,862.44				6508.62
	TOTAL				1786020.03
	Add CPOH @ 15% except on A i.e on (17,86,020.03 - 11,28,648.97 =) 6,57,371.06				98605.66
	Cost of 144.00 cum				1884625.69
	Cost of 1 cum				13087.68
	Say				13087.70

SUB HEAD : 6.0

BRICK WORK

6.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in.

6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3654.15	913.54
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	393.00	141.48
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0115	Coolie	day	1.37	297.00	406.89
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				4173.80
	Add Water Charges @ 1%				41.74
	TOTAL				4215.54
	Add CPOH @ 15%				632.33
	Cost of 1 cum				4847.87
	Say				4847.85

6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	393.00	141.48
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0115	Coolie	day	1.37	297.00	406.89
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				4000.42
	Add Water Charges @ 1%				40.00
	TOTAL				4040.42
	Add CPOH @ 15%				606.06
	Cost of 1 cum				4646.48
	Say				4646.50

6.2 Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in :

6.2.1 Cement mortar 1:4(1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	4500.00	2191.50
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1 :4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				3743.41
	Add Water Charges @ 1%				37.43
	TOTAL				3780.84
	Add CPOH @ 15%				567.13
	Cost of 1 cum				4347.97
	Say				4347.95

6.2.2 Cement Mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	4500.00	2191.50
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1 :6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				3590.84
	Add Water Charges @ 1%				35.91
	TOTAL				3626.75
	Add CPOH @ 15%				544.01
	Cost of 1 cum				4170.76
	Say				4170.75

6.3 Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand).

6.3.1 With F.P.S. (non modular) bricks.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4600.00	2272.40
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement mortar 1 :6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4485.89
	Add Water Charges @ 1%				44.86
	TOTAL				4530.75
	Add CPOH @ 15%				679.61
	Cost of 1 cum				5210.36
	Say				5210.35

6.3.2 With Modular bricks.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	4600.00	2240.20
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	393.00	172.92
0124	Mason (brick layer) 2nd class	day	0.44	361.00	158.84
0115	Coolie	day	1.43	297.00	424.71
0101	Bhisti	day	0.18	328.00	59.04
9999	Scaffolding	L.S.	16.38	1.70	27.85
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4213.65
	Add Water Charges @ 1%				42.14
	TOTAL				4255.79
	Add CPOH @ 15%				638.37
	Cost of 1 cum				4894.16
	Say				4894.15

6.4 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in.

6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3654.15	913.54
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4758.07
	Add Water Charges @ 1%				47.58
	TOTAL				4805.65
	Add CPOH @ 15%				720.85
	Cost of 1 cum				5526.50
	Say				5526.50

6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundries	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4584.69
	Add Water Charges @ 1%				45.85
	TOTAL				4630.54
	Add CPOH @ 15%				694.58
	Cost of 1 cum				5325.12
	Say				5325.10

6.5 Extra for brick work/ AAC block masonry/ Tile brick masonry in super structure above floor V level, for each four floors or part thereof by mechanical means.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.3 cum per four floors.				
0037	Mobile crane	day	0.125	6500.00	812.50
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.00	48.63	389.04
	TOTAL				1201.54
	Add Water Charges @ 1%				12.02
	TOTAL				1213.56
	Add CPOH @ 15%				182.03
	Cost of 5.3 cum				1395.59
	Cost of 1 cum				263.32
	Say				263.30

6.6 Extra for forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M.S. ties 300 mm long of 25x3 mm section at not less than 3 ties per sqm as per approved design.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Mild steel 25mmx3mm section 30cm long 30 No. = 9 metres @ 0.6kg/m = 5.40 kg				
1008	Flats up to 10 mm in thickness	quintal	0.054	4200.00	226.80
9999	Painting the steel with bitumen	L.S.	13.52	1.70	22.98
2205	Carriage of steel	tonne	0.005	94.80	0.47
	xtra labour for keeping cavity clear and fixing wall ties and delay caused				
0123	Mason (brick layer) 1 st class	day	0.37	393.00	145.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0124	Mason (brick layer) 2nd class	day	0.37	361.00	133.57
0114	Beldar	day	0.92	297.00	273.24
9999	Add for use of Core	L.S.	4.55	1.70	7.74
	TOTAL				810.21
	Add Water Charges @ 1%				8.10
	TOTAL				818.31
	Add CPOH @ 15%				122.75
	Cost of 10 sqm				941.06
	Cost of 1 sqm				94.11
	Say				94.10

6.7 Providing half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10 cm /11.4 cm wide bitumen felt type 3 grade 1.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10m length.				
	MATERIAL:				
	Half brick masonry 1:3 (Average) 1x10x0.27 = 2.7 sqm				
6.12.1	Rate as per Item Number 6.12.1 of SH: Brick work	sqm	2.70	597.25	1612.58 A
	Bitumen felt type- 3 grade 1 lxl0mx11.4m =1.14 sqm.				
	Add for wastage and overlapping @ 5% = 0.06 sqm.				
	Total = 1.20 sqm				
0322	Bitumen felt :Type 3 grade 1	sqm	1.20	60.00	72.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32
0114	Beldar	day	0.06	297.00	17.82
	TOTAL				1792.88
	Add Water Charges @ 1% except on A i.e on (1,792.88 - 1,612.58 =) 180.30				1.80
	TOTAL				1794.68
	Add CPOH @ 15% except on A i.e on (1,794.68 - 1,612.58 =) 182.10				27.32
	Cost of 10 metre				1822.00
	Cost of 1 metre				182.20
	Say				182.20

6.8 Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	377.00	4800.00	1809.60
	Cement mortar 1:3				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.181	4347.70	786.93
2201	Carriage of bricks	1000 Nos	377.00	284.39	107.22
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.72	393.00	282.96
0124	Mason (brick layer) 2nd class	day	0.72	361.00	259.92
0115	Coolie	day	1.76	297.00	522.72
0101	Bhisti	day	0.36	328.00	118.08
9999	Sundries and scaffolding	L.S.	7.15	1.70	12.16
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				4282.72
	Add Water Charges @ 1%				42.83
	TOTAL				4325.55
	Add CPOH @ 15%				648.83
	Cost of 10 sqm				4974.38
	Cost of 1 sqm				497.44
	Say				497.45

6.9 Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4347.70	1086.92
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundries	L.S.	2.73	1.70	4.64
	Centering and Shuttering:				
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick				
	Area of centering = 3.142 x 1.8 x 3.6 = 20.37 sqm.				
	Brick work in Arch = 3.142x2.00x0.4x3.6 = 9.05cum.				
	Area per cum = 20.37/9.05 = 2.25 sqm				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	1006.65	2264.96 A
9999	Scaffolding	L.S.	18.85	1.70	32.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.53	393.00	208.29
0124	Mason (brick layer) 2nd class	day	0.53	361.00	191.33
0115	Coolie	day	2.29	297.00	680.13
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				7381.21
	Add Water Charges @ 1% except on A i.e on (7,381.21 - 2,264.96 =) 5,116.25				51.16
	TOTAL				7432.37
	Add CPOH @ 15% except on A i.e on (7,432.37 - 2,264.96 =) 5,167.41				775.11
	Cost of 1 cum				8207.48
	Say				8207.50

6.10 Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 meters with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	538.00	4800.00	2582.40
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4347.70	1086.92
2201	Carriage of bricks	1000 Nos	538.00	284.39	153.00
9999	Sundries	L.S.	2.73	1.70	4.64
	Centring and shuttering (area same as in item No. 6.9)				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	1006.65	2264.96 A
9999	Scaffolding	L.S.	18.85	1.70	32.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.13	393.00	444.09
0124	Mason (brick layer) 2nd class	day	1.13	361.00	407.93
0115	Coolie	day	4.42	297.00	1312.74
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				8689.93
	Add Water Charges @ 1% except on A i.e on (8,689.93 - 2,264.96 =) 6,424.97				64.25
	TOTAL				8754.18
	Add CPOH @ 15% except on A i.e on (8,754.18 -2,264.96 =) 6,489.22				973.38
	Cost of 1 cum				9727.56
	Say				9727.55

6.11 Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 33.31 sqm. MATERIAL: Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m 2R-2=4+4 tan-1 (4/3)=53.28° 2x53.28°=106° Surface area =2x22/7x5x3.6x106/360=33.3 sqm. Arc=9.25m Material: Tie-2x8x0.18x0.05 =0.144cum Struts-2x2.5x0.1x0.1 =0.050cum. Struts-2x1.77x0.1x0.1 =0.035cum. Ribs-6x1.54x0.23x0.1 =0.213cum. Struts-2x1.72x0.1x0.1 =0.034cum. Total=0.476cum. For four such frames =0.476x4= 1.904 cum. laggings-75x3.6x0.125x0.075=2.531 cum. Tie-2x3.6x0.225x0.038=0.062cum. Brace-3x2x2.14x0.225x0.038=0.110 Brace-3x4x3.8x0.225x0.038=0.390 Sleepers-4x3.6x0.20x0.15=0.432 Sleepers-2x4x3.6x0.175x0.075=0.378 Vertical post-4x4x3.6x0.15x0.15=1.296 Total =7.103cum. Qty taken as 1/8th of qty for cost of using once = 7.103/8 = 0.8885 cum (887.90 cudm)				
1197	Second class kail wood in scantling	10 cudm	887.90	260.00	23085.40
2204	Carriage of timber Fittings: 3 way straps 50mmxl0mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx 10mm = 8 Nos. @0.25cm each = 2m Total = 18m 18m @ 3.9kg/m = 70.2 kg. = 0.702qtl. Qty taken l/8th of qty for cost using once = 0.702/8 = 0.0878 qtl.	cum	0.8879	121.88	108.22
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.- 160x 0.254x 1.58=64.21 kg=0.64qtl. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 qtl	quintal	0.0878	4450.00	390.71
1034	Bolts and nuts up to 300 mm in length Carriage of steel = 0.1342 t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.0168 tonne	quintal	0.08	5600.00	448.00
2302	Carriage of G.I.sheet and accessories LABOUR:	tonne	0.0168	94.80	1.59
0112	Carpenter 2nd class	day	28.00	361.00	10108.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	24.00	297.00	7128.00
9999	Sundries	L.S.	134.55	1.70	228.74
	Less cost of shttering etc. for an arch exceeding 6m span i.e. for an average of 8 m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	1006.65	33531.51 A
	TOTAL				7967.15
	Add Water Charges @ 1% except on A i.e on [7,967.15 - (-33,531.51)] = 41,498.66				414.99
	TOTAL				8382.14
	Add CPOH @ 15% except on A i.e on [8,382.14 - (-33,531.51)] = 41,913.65				6287.05
	Cost of 33.31 sqm				14669.19
	Cost of 1 sqm				440.38
	Say				440.40

6.12 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.

6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4347.70	1217.36
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.45	393.00	176.85
0124	Mason (brick layer) 2nd class	day	0.45	361.00	162.45
0115	Coolie	day	1.55	297.00	460.35
0101	Bhisti	day	0.70	328.00	229.60
	TOTAL				5142.27
	Add Water Charges @ 1%				51.42
	TOTAL				5193.69
	Add CPOH @ 15%				779.05
	Cost of 10 sqm				5972.74
	Cost of 1 sqm				597.27
	Say				597.25

6.12.2 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
	Cement mortar 1:4				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3654.15	1023.16
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.45	393.00	176.85
0124	Mason (brick layer) 2nd class	day	0.45	361.00	162.45
0115	Coolie	day	1.55	297.00	460.35
0101	Bhisti	day	0.70	328.00	229.60
	TOTAL				4948.07
	Add Water Charges @ 1%				49.48
	TOTAL				4997.55
	Add CPOH @ 15%				749.63
	Cost of 10 sqm				5747.18
	Cost of 1 sqm				574.72
	Say				574.70

6.13 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.

6.13.1 Cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4347.70	1217.36
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0124	Mason (brick layer) 2nd class	day	0.60	361.00	216.60
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	0.70	328.00	229.60
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				5772.15
	Add Water Charges @ 1%				57.72
	TOTAL				5829.87
	Add CPOH @ 15%				874.48
	Cost of 10 sqm				6704.35
	Cost of 1 sqm				670.44
	Say				670.45

6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
	Cement mortar 1:4				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3654.15	1023.16
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0124	Mason (brick layer) 2nd class	day	0.60	361.00	216.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	0.70	328.00	229.60
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				5577.95
	Add Water Charges @ 1%				55.78
	TOTAL				5633.73
	Add CPOH @ 15%				845.06
	Cost of 10 sqm				6478.79
	Cost of 1 sqm				647.88
	Say				647.90

6.14 Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 59.83 sqm per four floors.				
0037	Mobile crane	day	0.125	6500.00	812.50
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.00	48.63	389.04
	TOTAL				1201.54
	Add Water Charges @ 1%				12.02
	TOTAL				1213.56
	Add CPOH @ 15%				182.03
	Cost of 59.83 sqm				1395.59
	Cost of 1 sqm				23.33
	Say				23.35

6.15 Extra for providing and placing in position 2 Nos 6 mm dia M.S bars at every third course of half brick masonry.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	6mm dia. M.S. bars (round) 2 Nos. @ 30 meter/10sqm. = 60 metre @ 0.22kg/m =13.2 kg				
1002	Mild steel round bar 12 mm dia and below	quintal	0.132	4500.00	594.00
2205	Carriage of steel	tonne	0.0132	94.80	1.25
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				598.34
	Add Water Charges @ 1%				5.98
	TOTAL				604.32
	Add CPOH @ 15%				90.65
	Cost of 10 sqm				694.97
	Cost of 1 sqm				69.50
	Say				69.50

6.16 Tile brick masonry with common burnt clay tile bricks of class designation 10 in foundation and plinth in.

6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	4800.00	3729.60
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.40	3654.15	1461.66
2207	Carriage of brick tiles	1000 Nos	777.00	170.63	132.58
9999	Sundries	L.S.	4.55	1.70	7.74
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	393.00	275.10
0124	Mason (brick layer) 2nd class	day	0.70	361.00	252.70
0115	Coolie	day	1.54	297.00	457.38
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				6382.36
	Add Water Charges @ 1%				63.82
	TOTAL				6446.18
	Add CPOH @ 15%				966.93
	Cost of 1 cum				7413.11
	Say				7413.10

6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	4800.00	3729.60
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2960.65	1184.26
2207	Carriage of brick tiles	1000 Nos	777.00	170.63	132.58
9999	Sundries	L.S.	4.55	1.70	7.74
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	393.00	275.10
0124	Mason (brick layer) 2nd class	day	0.70	361.00	252.70
0115	Coolie	day	1.54	297.00	457.38
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				6104.96
	Add Water Charges @ 1%				61.05
	TOTAL				6166.01
	Add CPOH @ 15%				924.90
	Cost of 1 cum				7090.91
	Say				7090.90

6.17 Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	777.00	5000.00	3885.00
2207	Carriage of brick tiles	1000 Nos	777.00	170.63	132.58
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2960.65	1184.26
9999	Sundries	L.S.	4.55	1.70	7.74
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	393.00	275.10
0124	Mason (brick layer) 2nd class	day	0.70	361.00	252.70
0115	Coolie	day	1.54	297.00	457.38
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				6260.36
	Add Water Charges @ 1%				62.60
	TOTAL				6322.96
	Add CPOH @ 15%				948.44
	Cost of 1 cum				7271.40
	Say				7271.40

6.18 Tile brick masonry with common burnt clay tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	4800.00	3729.60
2207	Carriage of brick tiles	1000 Nos	777.00	170.63	132.58
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2960.65	1184.26
9999	Sundries	L.S.	4.55	1.70	7.74
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.90	393.00	353.70
0124	Mason (brick layer) 2nd class	day	0.90	361.00	324.90
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour for lifting of materials				
0115	Coolie	day	1.13	297.00	335.61
9999	Cost of sclafolding	L.S.	33.80	1.70	57.46
	TOTAL				6726.05
	Add Water Charges @ 1%				67.26
	TOTAL				6793.31
	Add CPOH @ 15%				1019.00
	Cost of 1 cum				7812.31
	Say				7812.30

6.19 Deleted

6.20 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	4800.00	3729.60
2207	Carriage of brick tiles	1000 Nos	777.00	170.63	132.58
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.35	3654.15	1278.95
9999	Sundries	L.S.	5.46	1.70	9.28
	Centering and shttering area same as in item number 6.9				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	1006.65	2264.96 A
9999	Scaffolding	L.S.	18.85	1.70	32.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.79	393.00	310.47
0124	Mason (brick layer) 2nd class	day	0.79	361.00	285.19
0115	Coolie	day	3.21	297.00	953.37
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				9397.65
	Add Water Charges @ 1% except on A i.e on (9,397.65 - 2,264.96 =) 7,132.69				71.33
	TOTAL				9468.98
	Add CPOH @ 15% except on A i.e on (9,468.98 - 2,264.96 =) 7,204.02				1080.60
	Cost of 1 cum				10549.58
	Say				10549.60

6.21 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	791.00	4800.00	3796.80
2207	Carriage of brick tiles	1000 Nos	791.00	170.63	134.97
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.35	3654.15	1278.95
9999	Sundries and shuttering	L.S.	5.46	1.70	9.28
	Centering and shuttering				
	Area same as in item no 6.9				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	1006.65	2264.96 A
9999	Scaffolding	L.S.	18.85	1.70	32.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.50	393.00	589.50
0124	Mason (brick layer) 2nd class	day	1.50	361.00	541.50
0115	Coolie	day	5.33	297.00	1583.01
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				10632.22
	Add Water Charges @ 1% except on A i.e on (10,632.22 - 2,264.96 =) 8,367.26				83.67
	TOTAL				10715.89
	Add CPOH @ 15% except on A i.e on (10,715.89 - 2,264.96 =) 8,450.93				1267.64
	Cost of 1 cum				11983.53
	Say				11983.55

6.22 Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	22.9cmx 11.2cmx5cm				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	377.00	4800.00	1809.60
2207	Carriage of brick tiles	1000 Nos	377.00	170.63	64.33
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.15	4347.70	652.16
9999	Sundires and scaffolding	L.S.	8.06	1.70	13.70
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.94	393.00	369.42
0124	Mason (brick layer) 2nd class	day	0.94	361.00	339.34
0115	Coolie	day	1.88	297.00	558.36
0101	Bhisti	day	0.33	328.00	108.24
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				4298.28
	Add Water Charges @ 1%				42.98
	TOTAL				4341.26
	Add CPOH @ 15%				651.19
	Cost of 10 sqm				4992.45
	Cost of 1 sqm				499.25
	Say				499.25

6.23 Honey-comb brick work 10/11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1sqm of Honey comb brick work.				
	MATERIAL:				
	Brick work with bricks of class designation 75 in cement mortar 1:4 (1 Cement: 4 Coarse sand) in superstructure				
	1 m x 1 x 0.143 m x 4.5/7.5 = 0.069 cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.069	5526.50	381.33 A
9999	Extra for delay due to fine work	L.S.	20.67	1.70	35.14
	TOTAL				416.47
	Add Water Charges @ 1% except on A i.e on (416.47 - 381.33 =) 35.14				0.35
	TOTAL				416.82
	Add CPOH @ 15% except on A i.e on (416.82 - 381.33 =) 35.49				5.32
	Cost of 1 sqm				422.14
	Say				422.15

6.24 Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.

Note:- The quantity will be calculated by multiplying the depth measured from sub-soil water level upto the centre of gravity of brick work unnder sub-soil water with the quantity of brick work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 14 cum per 0.3m depth.				
	Quantity of concrete = 14 cum.				
	Pumping hours = 3 hrs. or 0.375 days				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	550.00	206.25
0114	Beldar	day	4.00	297.00	1188.00
	TOTAL				1394.25
	Add Water Charges @ 1%				13.94
	TOTAL				1408.19
	Add CPOH @ 15%				211.23
	Cost of 4.2 cum				1619.42
	cum/mtr depth				385.58
	Say				385.60

6.25 Extra for laying brick work in or under foul position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	393.00	7.86
0124	Mason (brick layer) 2nd class	day	0.02	361.00	7.22
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	0.15	297.00	44.55
	TOTAL				133.88
	Add Water Charges @ 1%				1.34
	TOTAL				135.22
	Add CPOH @ 15%				20.28
	Cost of 1 cum				155.50
	Say				155.50

6.26 Brick work with common burnt clay selected F.P.S (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.26.1 From ground level upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
	For selection of bricks				
0114	Beldar	day	0.50	297.00	148.50
0123	Mason (brick layer) 1 st class	day	0.35	393.00	137.55
0124	Mason (brick layer) 2nd class	day	0.35	361.00	126.35
0115	Coolie	day	1.07	297.00	317.79
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				4075.49
	Add Water Charges @ 1%				40.75
	TOTAL				4116.24
	Add CPOH @ 15%				617.44
	Cost of 1 cum				4733.68
	Say				4733.70

6.26.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	4800.00	2371.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
	For selection of bricks in superstructure				
0114	Beldar	day	0.50	297.00	148.50
0123	Mason (brick layer) 1 st class	day	0.46	393.00	180.78
0124	Mason (brick layer) 2nd class	day	0.46	361.00	166.06
0115	Coolie	day	1.60	297.00	475.20
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4689.46
	Add Water Charges @ 1%				46.89
	TOTAL				4736.35
	Add CPOH @ 15%				710.45
	Cost of 1 cum				5446.80
	Say				5446.80

6.27 Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.27.1 From ground level upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	4500.00	2191.50
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				3614.05
	Add Water Charges @ 1%				36.14
	TOTAL				3650.19
	Add CPOH @ 15%				547.53
	Cost of 1 cum				4197.72
	Say				4197.70

6.27.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	4500.00	2191.50
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	393.00	172.92
0124	Mason (brick layer) 2nd class	day	0.44	361.00	158.84
0115	Coolie	day	1.43	297.00	424.71
0101	Bhisti	day	0.18	328.00	59.04
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4198.32
	Add Water Charges @ 1%				41.98
	TOTAL				4240.30
	Add CPOH @ 15%				636.04
	Cost of 1 cum				4876.34
	Say				4876.35

6.28 Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.28.1 From ground level upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.00	5250.00	2556.75
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1:6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				3979.30
	Add Water Charges @ 1%				39.79
	TOTAL				4019.09
	Add CPOH @ 15%				602.86
	Cost of 1 cum				4621.95
	Say				4621.95

6.28.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.00	5250.00	2556.75
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	393.00	172.92
0124	Mason (brick layer) 2nd class	day	0.44	361.00	158.84
0115	Coolie	day	1.43	297.00	424.71
0101	Bhisti	day	0.18	328.00	59.04
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4563.57
	Add Water Charges @ 1%				45.64
	TOTAL				4609.21
	Add CPOH @ 15%				691.38
	Cost of 1 cum				5300.59
	Say				5300.60

6.29 Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.29.1 From ground level upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4500.00	2223.00
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement mortar 1:6,(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	393.00	141.48
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0115	Coolie	day	1.37	297.00	406.89
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				3875.43
	Add Water Charges @ 1%				38.75
	TOTAL				3914.18
	Add CPOH @ 15%				587.13
	Cost of 1 cum				4501.31
	Say				4501.30

6.29.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4500.00	2223.00
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	393.00	172.92
0124	Mason (brick layer) 2nd class	day	0.44	361.00	158.84
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4437.08
	Add Water Charges @ 1%				44.37
	TOTAL				4481.45
	Add CPOH @ 15%				672.22
	Cost of 1 cum				5153.67
	Say				5153.65

6.30 Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.30.1 From ground level upto plinth level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4600.00	2272.40
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	393.00	141.48
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0115	Coolie	day	1.37	297.00	406.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				3924.83
	Add Water Charges @ 1%				39.25
	TOTAL				3964.08
	Add CPOH @ 15%				594.61
	Cost of 1 cum				4558.69
	Say				4558.70

6.30.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4600.00	2272.40
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4509.10
	Add Water Charges @ 1%				45.09
	TOTAL				4554.19
	Add CPOH @ 15%				683.13
	Cost of 1 cum				5237.32
	Say				5237.30

6.31 Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.31.1 From ground level upto plinth leve.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	4600.00	2240.20
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement mortar 1:6 (1 cement: 6 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				3662.75
	Add Water Charges @ 1%				36.63
	TOTAL				3699.38
	Add CPOH @ 15%				554.91
	Cost of 1 cum				4254.29
	Say				4254.30

6.31.2 Above plinth level and upto floor V level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	4600.00	2240.20
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.70	27.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	393.00	172.92
0124	Mason (brick layer) 2nd class	day	0.44	361.00	158.84
0115	Coolie	day	1.43	297.00	424.71
0101	Bhisti	day	0.18	328.00	59.04
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries	L.S.	22.36	1.70	38.01
	TOTAL				4247.02
	Add Water Charges @ 1%				42.47
	TOTAL				4289.49
	Add CPOH @ 15%				643.42
	Cost of 1 cum				4932.91
	Say				4932.90

6.32 Brick work with clay flyash F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor five level in.

6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	494.00	4600.00	2272.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement mortar1: 4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3654.15	913.54
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundries	L.S	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	8.97	1.70	15.25
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4636.51
	Add Water Charges @ 1%				46.37
	TOTAL				4682.88
	Add CPOH @ 15%				702.43
	Cost of 1 cum				5385.31
	Say				5385.30

6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	494.00	4600.00	2272.40
	Cement mortar 1 : 6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2960.65	740.16
2201	Carriage of bricks	1000 Nos	494.00	284.39	140.49
9999	Sundires	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	8.97	1.70	15.25
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4463.13
	Add Water Charges @ 1%				44.63
	TOTAL				4507.76
	Add CPOH @ 15%				676.16
	Cost of 1 cum				5183.92
	Say				5183.90

6.34 Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in.

6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	487.00	4700.00	2288.90
	Cement mortar 1 : 4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5 =1.13)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4564.15
	Add Water Charges @ 1%				45.64
	TOTAL				4609.79
	Add CPOH @ 15%				691.47
	Cost of 1 cum				5301.26
	Say				5301.25

6.34.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	487.00	4700.00	2288.90
	Cement.mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
2201	Carriage of bricks ,	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4411.58
	Add Water Charges @ 1%				44.12
	TOTAL				4455.70
	Add CPOH @ 15%				668.35
	Cost of 1 cum				5124.05
	Say				5124.05

6.35 Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139, class designation 10 average compressive strength in super structure above plinth level up to floor V level in.

6.35.1 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	487.00	5000.00	2435.00
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day 0	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.7 x 1.5 = 1.13)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4710.25
	Add Water Charges @ 1%				47.10
	TOTAL				4757.35
	Add CPOH @ 15%				713.60
	Cost of 1 cum				5470.95
	Say				5470.95

6.35.2 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	487.00	5000.00	2435.00
	Cement .mortar 1:6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2960.65	651.34
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.47	393.00	184.71
0124	Mason (brick layer) 2nd class	day	0.47	361.00	169.67
0115	Coolie	day	1.80	297.00	534.60
0101	Bhisti	day	0.20	328.00	65.60
9999	Scaffolding	L.S.	22.36	1.70	38.01
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0115	Coolie	day	1.13	297.00	335.61
	TOTAL				4557.68
	Add Water Charges @ 1%				45.58
	TOTAL				4603.26
	Add CPOH @ 15%				690.49
	Cost of 1 cum				5293.75
	Say				5293.75

6.36 Brick work with modular extruded brunt fly ash clay sewer bricks (Conforming to IS: 4885) in foundation and plinth.

6.36.1 Cement Mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	487.00	5400.00	2629.80
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	393.00	129.69
0124	Mason (brick layer) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.18	328.00	59.04
	TOTAL				4181.71
	Add Water Charges @ 1%				41.82
	TOTAL				4223.53
	Add CPOH @ 15%				633.53
	Cost of 1 cum				4857.06
	Say				4857.05

6.37 Brick work with modular extruded brunt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	487.00	5400.00	2629.80
	Cement mortar 1: 3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.25	3844.80	961.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2201	Carriage of bricks	1000 Nos	487.00	284.39	138.50
9999	Sundries	L.S.	2.73	1.70	4.64
	Centering and shuttering				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	1006.65	2264.96 A
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.42	393.00	165.06
0124	Mason (brick layer) 2nd class	day	0.42	361.00	151.62
0115	Coolie	day	1.86	297.00	552.42
0101	Bhisti	day	0.20	328.00	65.60
	TOTAL				6933.80
	Add Water Charges @ 1% except on A i.e on (6,933.80 - 2,264.96 =) 4,668.84				46.69
	TOTAL				6980.49
	Add CPOH @ 15% except on A i.e on (6,980.49 - 2,264.96 =) 4,715.53				707.33
	Cost of 1 cum				7687.82
	Say				7687.80

6.38 Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
8655	Autoclaved aerated cement (AAC) blocks	cum	1.00	2025.00	2025.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.15	3654.15	548.12
	Carriage of AAC blocks as				
2208	Carriage of lime	cum	1.00	106.64	106.64
9999	Sundries	L.S.	2.73	1.70	4.64
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	393.00	141.48
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0115	Coolie	day	1.37	297.00	406.89
0101	Bhisti	day	0.20	328.00	65.60
	Reinforcement bars				
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work	kilogram	13.20	64.05	845.46 A
	TOTAL				4273.79
	Add Water Charges @ 1% except on A i.e on (4,273.79 - 845.46 =) 3,428.33				34.28
	TOTAL				4308.07
	Add CPOH @ 15% except on A i.e on (4,308.07 -845.46 =) 3,462.61				519.39
	Cost of 1 cum				4827.46
	Say				4827.45

6.40 Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	10.00	480.00	4800.00
8657	Bonding plaster for Gypsum panel	kg	25.00	55.00	1375.00
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				6691.48
	Add Water Charges @ 1%				66.91
	TOTAL				6758.39
	Add CPOH @ 15%				1013.76
	Cost of 10 sqm				7772.15
	Cost of 1 sqm				777.22
	Say				777.20

6.41 Extra for Gypsum panel partitions in superstructure above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. per four floors				
	Extra labour for lifting of materials above floor V level				
0115	Coolie	day	1.73	297.00	513.81
	TOTAL				513.81
	Add Water Charges @ 1%				5.14
	TOTAL				518.95
	Add CPOH @ 15%				77.84
	Cost of 10 sqm				596.79
	Cost of 1 sqm				59.68
	Say				59.70

6.44 Brick edging 7 cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10m length.				
9999	Excavation and disposal of surplus earth 2nd class bricks = 42 Nos. + Add wastage @ 10% = 4.2 Nos. = 46.2 Nos. Say 46.00 Nos	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	46.00	4800.00	220.80
2201	Carriage of bricks	1000 Nos	46.00	284.39	13.08
	Cement mortat 1:4 (Rate as per item no. 3.4)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.0036	3151.25	11.34
	LABOUR:				
0155	Mason (average)	day	0.10	377.00	37.70
0114	Beldar	day	0.10	297.00	29.70
0101	Bhisti	day	0.03	328.00	9.84
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				331.74
	Add Water Charges @ 1%				3.32
	TOTAL				335.06
	Add CPOH @ 15%				50.26
	Cost of 10 metre				385.32
	Cost of 1 metre				38.53
	Say				38.55

6.45 Half brick masonry with non modular fly ash lime Gypsum bricks (FALG bricks) of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level.

6.45.1 Cement mortar 1 : 3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	565.00	4700.00	2655.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4347.70	1217.36
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0124	Mason (brick layer) 2nd class	day	0.60	361.00	216.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	0.70	328.00	229.60
	Extra labour elemant required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				5715.65
	Add Water Charges @ 1%				57.16
	TOTAL				5772.81
	Add CPOH @ 15%				865.92
	Cost of 10 sqm				6638.73
	Cost of 1 sqm				663.87
	Say				663.85

6.45.2 Cement mortar 1 : 4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	565.00	4700.00	2655.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3654.15	1023.16
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
9999	Sundries & scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	393.00	235.80
0124	Mason (brick layer) 2nd class	day	0.60	361.00	216.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	0.70	328.00	229.60
	Extra labour elemant required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.29	297.00	383.13
	TOTAL				5521.45
	Add Water Charges @ 1%				55.21
	TOTAL				5576.66
	Add CPOH @ 15%				836.50
	Cost of 10 sqm				6413.16
	Cost of 1 sqm				641.32
	Say				641.30

SUB HEAD : 7.0

STONE WORK

7.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with.

7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1157	Stone for masonry work	cum	1.00	700.00	700.00
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum 1.00cum. + 0.16 cum. = 1.16 cum	cum	1.16	125.47	145.55
	Cement mortar 1:6 (1 cement: 6 Coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.33	2960.65	977.01
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.07	361.00	386.27
0114	Beldar	day	1.07	297.00	317.79
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
9999	Cement concrete 1:6:12	L.S.	45.76	1.70	77.79
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				2936.31
	Add Water Charges @ 1%				29.36
	TOTAL				2965.67
	Add CPOH @ 15%				444.85
	Cost of 1 cum				3410.52
	Say				3410.50

7.2 Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.

7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
1157	Stone for masonry work	cum	1.00	700.00	700.00
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum 1.00 cum. + 0.16 cum = 1.16 cum	cum	1.16	125.47	145.55
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.33	2960.65	977.01
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.34	361.00	483.74
0114	Beldar	day	1.45	297.00	430.65
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
9999	Cement concrete 1:6:12	L.S.	56.55	1.70	96.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra Labour for lifting of material upto floor five level.				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries, scaffolding etc.	L.S.	15.21	1.70	25.86
	TOTAL				3518.95
	Add Water Charges @ 1%				35.19
	TOTAL				3554.14
	Add CPOH @ 15%				533.12
	Cost of 1 cum				4087.26
	Say				4087.25

7.4 Extra for random rubble masonry with hard stone in.

7.4.1 Square or rectangular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.58	361.00	209.38
0115	Coolie	day	0.27	297.00	80.19
	TOTAL				289.57
	Add Water Charges @ 1%				2.90
	TOTAL				292.47
	Add CPOH @ 15%				43.87
	Cost of 1 cum				336.34
	Say				336.35

7.4.2 Circular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
1157	Stone for masonry work	cum	0.29	700.00	203.00
2215	Carriage of Soling stone & masonry stone	cum	0.29	125.47	36.39
	LABOUR:				
	Labour for cutting and dressing stones				
0125	Mason (for plain stone work) 2nd class	day	1.42	361.00	512.62
0115	Coolie	day	0.35	297.00	103.95
	TOTAL				855.96
	Add Water Charges @ 1%				8.56
	TOTAL				864.52
	Add CPOH @ 15%				129.68
	Cost of 1 cum				994.20
	Say				994.20

7.5 Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
1157	Stone for masonry work	cum	0.10	700.00	70.00
2215	Carriage of Soling stone & masonry stone	cum	0.10	125.47	12.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	Labour for cutting and dressing stones				
0125	Mason (for plain stone work) 2nd class	day	0.27	361.00	97.47
0115	Coolie	day	0.53	297.00	157.41
	TOTAL				337.43
	Add Water Charges @ 1%				3.37
	TOTAL				340.80
	Add CPOH @ 15%				51.12
	Cost of 1 cum				391.92
	Say				391.90

7.6 Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :

7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	Cement mortar l:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.3	2960.65	888.20
1157	Stone for masonry work	cum	1.21	700.00	847.00
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
2215	Carriage of Soling stone & masonry stone	cum	1.37	125.47	171.89
	7.00x24cmx24cmx39cm = 0.16 cum.				
	1.21+0.16=1.37 cum				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.12	361.00	765.32
0114	Beldar	day	1.24	297.00	368.28
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3388.06
	Add Water Charges @ 1%				33.88
	TOTAL				3421.94
	Add CPOH @ 15%				513.29
	Cost of 1 cum				3935.23
	Say				3935.25

7.7 Coursed rubble masonry (second sort) with hard stone in foundation & plinth with.

7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	Cement mortar l:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2960.65	888.20
1157	Stone for masonry work	cum	1.10	700.00	770.00
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone	cum	1.26	125.47	158.09
	7.00x24cmx24cmx39cm = 0.16 cum.				
	1.10+0.16 cum = 1.26 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.76	361.00	635.36
0114	Beldar	day	1.24	297.00	368.28
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				3167.30
	Add Water Charges @ 1%				31.67
	TOTAL				3198.97
	Add CPOH @ 15%				479.85
	Cost of 1 cum				3678.82
	Say				3678.80

7.8 Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.

7.8.1 Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2960.65	888.20
1157	Stone for masonry work	cum	1.21	700.00	847.00
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum. 1.21 cum. + 0.16 cum = 1.37 cum	cum	1.37	125.47	171.89
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.38	361.00	859.18
0114	Beldar	day	1.59	297.00	472.23
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries, scaffolding etc.	L.S.	37.70	1.70	64.09
	TOTAL				3962.59
	Add Water Charges @ 1%				39.63
	TOTAL				4002.22
	Add CPOH @ 15%				600.33
	Cost of 1 cum				4602.55
	Say				4602.55

7.8.2 Masonry work (second sort), in cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2960.65	888.20
1157	Stone for masonry work	cum	1.10	700.00	770.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1154	Through and bond stone	100 Nos	7.00	1200.00	84.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum. 1.10 cum. + 0.16 cum = 1.26 cum	cum	1.26	125.47	158.09
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.02	361.00	729.22
0114	Beldar	day	1.59	297.00	472.23
0115	Coolie	day	0.71	297.00	210.87
0101	Bhisti	day	0.09	328.00	29.52
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.13	297.00	335.61
9999	Sundries, scaffolding etc.	L.S.	37.7	1.70	64.09
	TOTAL				3741.83
	Add Water Charges @ 1%				37.42
	TOTAL				3779.25
	Add CPOH @ 15%				566.89
	Cost of 1 cum				4346.14
	Say				4346.15

7.10 Extra for coursed rubble masonry with hard stone (first or second sort) in.

7.10.1 Square or rectangular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.67	361.00	241.87
0115	Coolie	day	0.27	297.00	80.19
	TOTAL				322.06
	Add Water Charges @ 1%				3.22
	TOTAL				325.28
	Add CPOH @ 15%				48.79
	Cost of 1 cum				374.07
	Say				374.05

7.10.2 Circular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Extra				
1157	Stone for masonry work	cum	0.32	700.00	224.00
2215	Carriage of Soling stone & masonry stone	cum	0.32	125.47	40.15
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	1.67	361.00	602.87
0115	Coolie	day	0.35	297.00	103.95
	TOTAL				970.97
	Add Water Charges @ 1%				9.71
	TOTAL				980.68
	Add CPOH @ 15%				147.10
	Cost of 1 cum				1127.78
	Say				1127.80

7.11 Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Extra				
1157	Stone for masonry work	cum	0.11	700.00	77.00
2215	Carriage of Soling stone & masonry stone	cum	0.11	125.47	13.80
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	0.33	361.00	119.13
0115	Coolie	day	0.53	297.00	157.41
	TOTAL				367.34
	Add Water Charges @ 1%				3.67
	TOTAL				371.01
	Add CPOH @ 15%				55.65
	Cost of 1 cum				426.66
	Say				426.65

7.12 Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.12.1 One face dressed.

7.12.1.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL:				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.031 t	tonne	0.031	94.80	2.94
	Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	297.00	4.46
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	361.00	31.77
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				226.29
	Add Water Charges @ 1%				2.26
	TOTAL				228.55
	Add CPOH @ 15%				34.28
	Cost of 0.01 cum				262.83
	Cost of 1 cum				26283.00
	Say				26283.00

7.12.1.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm.				
	MATERIAL:				
	1161 White sand stone block	10 cudm	13.33	70.00	93.31
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.031 t				
	Extra labour for lifting of materials upto floor V level.				
	0.01x1.50=0.015				
0115	Coolie	day	0.015	297.00	4.46
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	361.00	31.77
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				232.95
	Add Water Charges @ 1%				2.33
	TOTAL				235.28
	Add CPOH @ 15%				35.29
	Cost of 0.01 cum				270.57
	Cost of 1 cum				27057.00
	Say				27057.00

7.12.2 Both faces dressed.

7.12.2.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm.				
	MATERIAL:				
	1160 Red sand stone block Finished work = 10 cudm.+ Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015	tonne	0.031	94.80	2.94
0115	Coolie Dressing charges	day	0.015	297.00	4.46
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani Fixing charges	day	0.088	328.00	28.86
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				294.46
	Add Water Charges @ 1%				2.94
	TOTAL				297.40
	Add CPOH @ 15%				44.61
	Cost of 0.01 cum				342.01
	Cost of 1 cum				34201.00
	Say				34201.00

7.12.2.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cudm.+ Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	@ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.031 t				
	Extra labour for lifting of material upto floor V level 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	297.00	4.46
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				301.12
	Add Water Charges @ 1%				3.01
	TOTAL				304.13
	Add CPOH @ 15%				45.62
	Cost of 0.01 cum				349.75
	Cost of 1 cum				34975.00
	Say				34975.00

7.13 Stone work plain ashlar in arches in superstructure upto floor V level in cement morter 1 : 3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.13.1 One face dressed.

7.13.1.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm =				
	13.33x2.30 = 30.659 kg = tonne say				
	0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	361.00	31.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S	. 8.06	1.70	13.70
9999	Centering and shuttering	L.S.	13.52	1.70	22.98
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				262.97
	Add Water Charges @ 1%				2.63
	TOTAL				265.60
	Add CPOH @ 15%				39.84
	Cost of 0.01 cum				305.44
	Cost of 1 cum				30544.00
	Say				30544.00

7.13.1.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block	10 cudm	13.33	70.00	93.31
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sande ston & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t	tonne	0.031	94.80	2.94
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	361.00	31.77
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	13.52	1.70	22.98
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				269.63
	Add Water Charges @ 1%				2.70
	TOTAL				272.33
	Add CPOH @ 15%				40.85
	Cost of 0.01 cum				313.18
	Cost of 1 cum				31318.00
	Say				31318.00

7.13.2 Both faces dressed.

7.13.2.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	13.52	1.70	22.98
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				331.14
	Add Water Charges @ 1%				3.31
	TOTAL				334.45
	Add CPOH @ 15%				50.17
	Cost of 0.01 cum				384.62
	Cost of 1 cum				38462.00
	Say				38462.00

7.13.2.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t Dressing charges	tonne	0.031	94.80	2.94
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	13.52	1.70	22.98
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				337.80
	Add Water Charges @ 1%				3.38
	TOTAL				341.18
	Add CPOH @ 15%				51.18
	Cost of 0.01 cum				392.36
	Cost of 1 cum				39236.00
	Say				39236.00

7.14 Stone work plain ashlar in domes, in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.14.1 One face dressed.

7.14.1.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0126	Mason (for ornamental stone work) 1 st class	day	0.176	393.00	69.17
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	33.15	1.70	56.36
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level				
	(0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				397.29
	Add Water Charges @ 1%				3.97
	TOTAL				401.26
	Add CPOH @ 15%				60.19
	Cost of 0.01 cum				461.45
	Cost of 1 cum				46145.00
	Say				46145.00

7.14.1.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t Dressing charges	tonne	0.031	94.80	2.94
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	361.00	63.54
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0126	Mason (for ornamental stone work) 1 st class	day	0.176	393.00	69.17
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	33.15	1.70	56.36
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
	0115 Coolie	day	0.015	297.00	4.46
	TOTAL				403.95
	Add Water Charges @ 1%				4.04
	TOTAL 4				07.99
	Add CPOH @ 15%				61.20
	Cost of 0.01 cum				469.19
	Cost of 1 cum				46919.00
	Say				46919.00

7.14.2 Both faces dressed.

7.14.2.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	65.00	86.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t	tonne	0.031	94.80	2.94
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.352	361.00	127.07
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0126	Mason (for ornamental stone work) 1 st class	day	0.352	393.00	138.34
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	33.15	1.70	56.36
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				566.39
	Add Water Charges @ 1%				5.66
	TOTAL				572.05
	Add CPOH @ 15%				85.81
	Cost of 0.01 cum				657.86
	Cost of 1 cum				65786.00
	Say				65786.00

7.14.2.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block	10 cudm	13.33	70.00	93.31
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t	tonne	0.031	94.80	2.94
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.352	361.00	127.07
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0126	Mason (for ornamental stone work) 1 st class	day	0.352	393.00	138.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
9999	Centering and shuttering	L.S.	33.15	1.70	56.36
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level				
	(0.01x1.5=0.015)				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				573.05
	Add Water Charges @ 1%				5.73
	TOTAL				578.78
	Add CPOH @ 15%				86.82
	Cost of 0.01 cum				665.60
	Cost of 1 cum				66560.00
	Say				66560.00

7.15 Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.15.1 One face punched.

7.15.1.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	361.00	21.30
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	Extra labour for lifting of materials upto floor V level= 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				215.82
	Add Water Charges @ 1%				2.16
	TOTAL				217.98
	Add CPOH @ 15%				32.70
	Cost of 0.01 cum				250.68
	Cost of 1 cum				25068.00
	Say				25068.00

7.15.1.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t	tonne	0.031	94.80	2.94
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	361.00	21.30
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				222.48
	Add Water Charges @ 1%				2.22
	TOTAL				224.70
	Add CPOH @ 15%				33.70
	Cost of 0.01 cum				258.40
	Cost of 1 cum				25840.00
	Say				25840.00

7.15.2 Both faced punched.

7.15.2.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t				
	Extra labour for lifting of materials upto floor five level				
	0.01x1.50=0.015				
0115	Coolie	day	0.015	297.00	4.46
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.118	361.00	42.60
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani	day	0.088	328.00	28.86
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				273.52
	Add Water Charges @ 1%				2.74
	TOTAL				276.26
	Add CPOH @ 15%				41.44
	Cost of 0.01 cum				317.70
	Cost of 1 cum				31770.00
	Say				31770.00

7.15.2.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015	tonne	0.031	94.80	2.94
0115	Coolie Dressing charges	day	0.015	297.00	4.46
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.118	361.00	42.60
0102	Blacksmith 1 st class	day	0.012	393.00	4.72
0114	Beldar	day	0.088	297.00	26.14
0115	Coolie	day	0.044	297.00	13.07
0100	Bandhani Fixing charges	day	0.088	328.00	28.86
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	TOTAL				280.18
	Add Water Charges @ 1%				2.80
	TOTAL				282.98
	Add CPOH @ 15%				42.45
	Cost of 0.01 cum				325.43
	Cost of 1 cum				32543.00
	Say				32543.00

7.16 Extra for stone work, Random Rubble/Coursed Rubble masonry/Ashlar Masonry above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum above floor V level. Labour required for lifting of material (above floor five level for each additional four floors) or part thereof Extra labour for lifting of materials above floor V level (0.01 x 2.00 = 0.020)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.02	297.00	5.94
	TOTAL				5.94
	Add Water Charges @ 1%				0.06
	TOTAL				6.00
	Add CPOH @ 15%				0.90
	Cost of 0.01 cum				6.90
	Cost of 1 cum				690.00
	Say				690.00

7.17 Extra for plain ashlar or ashlar punched in.

7.17.1 Square or rectangular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
9999	Labour and materials	L.S.	8.97	1.70	15.25
	TOTAL				15.25
	Add Water Charges @ 1%				0.15
	TOTAL				15.40
	Add CPOH @ 15%				2.31
	Cost of 0.01 cum				17.71
	Cost of 1 cum				1771.00
	Say				1771.00

7.18 Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
9999	Labour and materials	L.S.	6.24	1.70	10.61
	TOTAL				10.61
	Add Water Charges @ 1%				0.11
	TOTAL				10.72
	Add CPOH @ 15%				1.61
	Cost of 0.01 cum				12.33
	Cost of 1 cum				1233.00
	Say				1233.00

7.19 Extra for additional cost of centering for arches exceeding 6 m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 33.31 sqm. Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m 2R-2=4+4 tan-1(4/3)=53.28° 2x53.28°=106°				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Surface area =2x22/7x5x3.6x106/360=33.31 sqm. Arc=9.25m MATERIAL: Tie-2x8x0. 18x0.05=0.144cum Struts-2x2.5x0.1x0.1 =0.050cum. Struts-2x 1.77x0.1x0.1l=0.035cum. Ribs-6x1.54x0.23x0.1 =0.213cum. Struts-2xl .72x0.1x0.1 =0.034cum. Total=0.476cum. For four such frames =0.476x4= 1.904 cum. Laggings-75x3.6x0.125x0.075=2.531 cum. Tie-2x3.6x0.225x0.038=0.062cum. Brace-3x2x2.14x0.225x0.038=0.110 Brace-3x4x3.8x0.225x0.038=0.390 Sleepers-4x3.6x0.20x0.15=0.432 Sleepers-2x4x3.6x0. 175x0.075=0.378 Vertical post-4x4x3.6x0.15x0.15=1.296 Total =7.103cum. - Qty taken as 1/8th of qty for cost of using once = 7.103/8 = 0.8879 cum				
1197	Second class kail wood in scantling	10 cudm	887.9	260.00	23085.40
2204	Carriage of timber ittings: 3 way straps 50mmxl0mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmxl0mm = 8 Nos. @0.25cm each = 2m Total = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken l/8th of qty for cost using once = 0.702/8 = 0.08775 Qtl	cum	0.8879	121.88	108.22
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.- 160x.254xl .58=64.21 kg=0.64q. Qty taken l/8th of qty for cost using once = 0.64/8 = 0.08 Qtl	quintal	0.0878	4450.00	390.71
1034	Bolts and nuts up to 300 mm in length Carriage of steel = 0.1342t Qty taken l/8th of qty for cost using once = 0.1342/8 = 0.01677 t	quintal	0.08	5600.00	448.00
2302	Carriage of G.I.sheet and accessories LABOUR:	tonne	0.0168	94.80	1.59
0112	Carpenter 2nd class	day	28.00	361.00	10108.00
0114	Beldar	day	24.00	297.00	7128.00
9999	Sundries Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span	L.S.	134.55	1.70	228.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	1006.65	-33531.51 A
	TOTAL				7967.15
	Add Water Charges @ 1% except on A i.e on [7967.15 - (-33,531.51)] = 41,498.66				414.99
	TOTAL				8382.14
	Add CPOH @ 15% except on A i.e on [8382.14 -(-33,531.51)] = 41913.65				6287.05
	Cost of 33.31 sqm				14669.19
	Cost of 1 sqm				440.38
	Say				440.40

7.20 Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.20.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
1160	Red sand stone block	10 cudm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t	tonne	0.031	94.80	2.94
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.291	361.00	105.05
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				313.27
	Add Water Charges @ 1%				3.13
	TOTAL				316.40
	Add CPOH @ 15%				47.46
	Cost of 0.01 cum				363.86
	Cost of 1 cum				36386.00
	Say				36386.00

7.20.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
	MATERIAL:				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
1161	White sand stone block	10 cudm	13.33	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.80	2.94
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031t				
9999	Extra for using white cement	L.S.	8.06	1.70	13.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.291	361.00	105.05
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.044	297.00	13.07
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.044	328.00	14.43
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	361.00	15.88
0102	Blacksmith 1 st class	day	0.006	393.00	2.36
0114	Beldar	day	0.022	297.00	6.53
0115	Coolie	day	0.022	297.00	6.53
0100	Bandhani	day	0.022	328.00	7.22
0101	Bhisti	day	0.022	328.00	7.22
9999	Scaffolding	L.S.	2.73	1.70	4.64
9999	Mortar for laying and pointing	L.S.	8.06	1.70	13.70
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	day	0.015	297.00	4.46
	TOTAL				319.93
	Add Water Charges @ 1%				3.20
	TOTAL				323.13
	Add CPOH @ 15%				48.47
	Cost of 0.01 cum				371.60
	Cost of 1 cum				37160.00
	Say				37160.00

7.21 Extra for stone work ashalr sunk or moulded or sunk and moulded or carved in.

7.21.1 Triangular or Square or rectangular pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
9999	Labour	L.S.	11.70	1.70	19.89
	TOTAL				19.89
	Add Water Charges @ 1%				0.20
	TOTAL				20.09
	Add CPOH @ 15%				3.01
	Cost of 0.01 cum				23.10
	Cost of 1 cum				2310.00
	Say				2310.00

7.21.2 Circular or polygonal pillars.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum.				
9999	Labour	L.S.	33.15	1.70	56.36
	TOTAL				56.36
	Add Water Charges @ 1%				0.56
	TOTAL				56.92
	Add CPOH @ 15%				8.54
	Cost of 0.01 cum				65.46
	Cost of 1 cum				6546.00
	Say				6546.00

7.22 Extra for stone work ashlar sunk or moulded in cornices.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a cornice 30 cm long 60cm deep and 15cm projection.				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	0.75	297.00	222.75
	TOTAL				403.25
	Add Water Charges @ 1%				4.03
	TOTAL				407.28
	Add CPOH @ 15%				61.09
	Cost of 30cm long 60cm deep and 15cm girth				468.37
	Cost per metre per cm girth				20.82
	Say				20.80

7.23 Stone work (machine cut edges) for wall lining etc.(veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately)

7.23.1 Red sand stone - Exposed face fine dressed with rough backing.

7.23.1.1 70 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1160	Red sand stone block	10 cudm	93.33	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00 9	9.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2075.54
	Add Water Charges @ 1%				20.76
	TOTAL				2096.30
	Add CPOH @ 15%				314.44
	Cost of 1 sqm				2410.74
	Say				2410.75

7.23.1.2 60 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1160	Red sand stone block	10 cudm	80.00	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.80	17.44
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1985.96
	Add Water Charges @ 1%				19.86
	TOTAL				2005.82
	Add CPOH @ 15%				300.87
	Cost of 1 sqm				2306.69
	Say				2306.70

7.23.1.3 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1160	Red sand stone block	10 cudm	66.7	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.80	14.50
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1896.57
	Add Water Charges @ 1%				18.97
	TOTAL				1915.54
	Add CPOH @ 15%				287.33
	Cost of 1 sqm				2202.87
	Say				2202.85

7.23.1.4 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1160	Red sand stone block	10 cudm	53.33	65.00	346.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	94.80	11.66
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1806.82
	Add Water Charges @ 1%				18.07
	TOTAL				1824.89
	Add CPOH @ 15%				273.73
	Cost of 1 sqm				2098.62
	Say				2098.60

7.23.1.5 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1160	Red sand stone block	10 cudm	39.99	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.80	8.72
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1717.18
	Add Water Charges @ 1%				17.17
	TOTAL				1734.35
	Add CPOH @ 15%				260.15
	Cost of 1 sqm				1994.50
	Say				1994.50

7.23.2 Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.1 70 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1160	Red sand stone block	10 cudm	93.33	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2748.73
	Add Water Charges @ 1%				27.49
	TOTAL				2776.22
	Add CPOH @ 15%				416.43
	Cost of 1 sqm				3192.65
	Say				3192.65

7.23.2.2 60 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1160	Red sand stone block	10 cudm	80.00	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.80	17.44
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2659.15
	Add Water Charges @ 1%				26.59
	TOTAL				2685.74
	Add CPOH @ 15%				402.86
	Cost of 1 sqm				3088.60
	Say				3088.60

7.23.2.3 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1160	Red sand stone block	10 cudm	66.70	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.80	14.50
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0101	Bhisti	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2569.76
	Add Water Charges @ 1%				25.70
	TOTAL				2595.46
	Add CPOH @ 15%				389.32
	Cost of 1 sqm				2984.78
	Say				2984.80

7.23.2.4 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1160	Red sand stone block	10 cudm	53.33	65.00	346.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	94.80	11.66
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2480.01
	Add Water Charges @ 1%				24.80
	TOTAL				2504.81
	Add CPOH @ 15%				375.72
	Cost of 1 sqm				2880.53
	Say				2880.55

7.23.2.5 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1160	Red sand stone block	10 cudm	39.99	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.80	8.72
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2390.37
	Add Water Charges @ 1%				23.90
	TOTAL				2414.27
	Add CPOH @ 15%				362.14
	Cost of 1 sqm				2776.41
	Say				2776.40

7.23.3 White sand stone - Exposed face fine dressed with rough backing.

7.23.3.1 70 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1161	White sand stone block	10 cudm	93.33	70.00	653.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2122.21
	Add Water Charges @ 1%				21.22
	TOTAL				2143.43
	Add CPOH @ 15%				321.51
	Cost of 1 sqm				2464.94
	Say				2464.95

7.23.3.2 60 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1161	White sand stone block	10 cudm	80.00	70.00	560.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.80	17.44
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2025.96
	Add Water Charges @ 1%				20.26
	TOTAL				2046.22
	Add CPOH @ 15%				306.93
	Cost of 1 sqm				2353.15
	Say				2353.15

7.23.3.3 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1161	White sand stone block	10 cudm	66.70	70.00	466.90
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.80	14.50
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1929.92
	Add Water Charges @ 1%				19.30
	TOTAL				1949.22
	Add CPOH @ 15%				292.38
	Cost of 1 sqm				2241.60
	Say				2241.60

7.23.3.4 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1161	White sand stone block	10 cudm	53.30	70.00	373.10
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	94.80	11.66
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1833.28
	Add Water Charges @ 1%				18.33
	TOTAL				1851.61
	Add CPOH @ 15%				277.74
	Cost of 1 sqm				2129.35
	Say				2129.35

7.23.3.5 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1161	White sand stone block	10 cudm	39.99	70.00	279.93
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.80	8.72
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	361.00	487.35
0102	Blacksmith 1 st class	day	0.032	393.00	12.58
0114	Beldar	day	0.224	297.00	66.53
0115	Coolie	day	0.112	297.00	33.26
0100	Bandhani	day	0.224	328.00	73.47
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				1737.17
	Add Water Charges @ 1%				17.37
	TOTAL				1754.54
	Add CPOH @ 15%				263.18
	Cost of 1 sqm				2017.72
	Say				2017.70

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.1 70 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1161	White sand stone block	10 cudm	93.33	70.00	653.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2795.40
	Add Water Charges @ 1%				27.95
	TOTAL				2823.35
	Add CPOH @ 15%				423.50
	Cost of 1 sqm				3246.85
	Say				3246.85

7.23.4.2 60 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1161	White sand stone block	10 cudm	80.00	70.00	560.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.80	17.44
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.70	45.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2699.15
	Add Water Charges @ 1%				26.99
	TOTAL				2726.14
	Add CPOH @ 15%				408.92
	Cost of 1 sqm				3135.06
	Say				3135.05

7.23.4.3 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1161	White sand stone block	10 cudm	66.70	70.00	466.90
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.80	14.50
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2603.11
	Add Water Charges @ 1%				26.03
	TOTAL				2629.14
	Add CPOH @ 15%				394.37
	Cost of 1 sqm				3023.51
	Say				3023.50

7.23.4.4 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33				
	Total = 53.33 cudm				
1161	White sand stone block	10 cudm	53.30	70.00	373.10
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123 9	4.80	11.66
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2506.47
	Add Water Charges @ 1%				25.06
	TOTAL				2531.53
	Add CPOH @ 15%				379.73
	Cost of 1 sqm				2911.26
	Say				2911.25

7.23.4.5 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1161	White sand stone block	10 cudm	39.99	70.00	279.93
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.80	8.72
9999	Extra for using white cement	L.S.	26.91	1.70	45.75
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	361.00	974.70
0102	Blacksmith 1 st class	day	0.064	393.00	25.15
0114	Beldar	day	0.448	297.00	133.06
0115	Coolie	day	0.224	297.00	66.53
0100	Bandhani	day	0.448	328.00	146.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	361.00	161.73
0100	Bandhani	day	0.336	328.00	110.21
0114	Beldar	day	0.336	297.00	99.79
0115	Coolie	day	0.336	297.00	99.79
0101	Bhisti	day	0.336	328.00	110.21
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	9.00	36.00
9999	Scaffolding	L.S.	19.76	1.70	33.59
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4347.70	78.26
	TOTAL				2410.36
	Add Water Charges @ 1%				24.10
	TOTAL				2434.46
	Add CPOH @ 15%				365.17
	Cost of 1 sqm				2799.63
	Say				2799.65

7.24 Extra for stone work (veneer work) curved on plan with a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm.				
9999	Labour and materials	L.S.	8.97	1.70	15.25
	TOTAL				15.25
	Add Water Charges @ 1%				0.15
	TOTAL				15.40
	Add CPOH @ 15%				2.31
	Cost of 0.01 cum				17.71
	Cost of 1 cum				1771.00
	Say				1771.00

7.25 Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one cramp of 0.934kg.				
	MATERIAL:				
	Stainless steel cramp				
	10x0.064x0.025x0.006 = $9.6x10^{-5}$				
	10x0.025x0.025x0.006 =$3.7x10^{-5}$				
	=$13.3x10^{-5}$				
	Less hole				
	10x0.024x0.010x0.006a=$1.4x10^{-5}$				
	11.9x10-5x7850=0.934 kg				
	Add wastage @ 5%=0.047 kg				
	Total =0.981 kg				
7339	Stainless steel cramp	kilogram	0.981	340.00	333.54
9999	Carriage	L.S.	3.90	1.70	6.63
	Cement mortar 1:2(1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5107.40	5.11
9999	Labour for fixing in position	L.S.	65.00	1.70	110.50
	TOTAL				455.78
	Add Water Charges @ 1%				4.56
	TOTAL				460.34
	Add CPOH @ 15%				69.05
	Cost of 0.934 kilogram				529.39
	Cost of 1 kilogram				566.80
	Say				566.80

7.26 Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one dowel.				
9999	Cost of stone including carriage	L.S.	9.10	1.70	15.47
9999	Labour for dressing dowel cutting chase and fixing etc.	L.S.	5.33	1.70	9.06
	Cement mortar 1:2(1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5107.40	5.11
	TOTAL				29.64
	Add Water Charges @ 1%				0.30
	TOTAL				29.94
	Add CPOH @ 15%				4.49
	Cost of each				34.43
	Say				34.45

7.27 Providing and fixing copper pins 7.5 cm long 6mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one copper pin.				
	MATERIAL:				
0873	Copper pins 6 mm dia 7.5 cm long	each	1.00	10.00	10.00
9999	Labour for making pin to required shape and size, cutting chases in stone and fixing in position Cement mortar 1:2(1 cement: 2 coarse sand)	L.S.	3.90	1.70	6.63
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5107.40	5.11
9999	Sundries including hire charges of hand cut machine etc	L.S.	1.95	1.70	3.32
	TOTAL				25.06
	Add Water Charges @ 1%				0.25
	TOTAL				25.31
	Add CPOH @ 15%				3.80
	Cost of each				29.11
	Say				29.10

7.28 Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with brick cove in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.28.1 Red sand stone.

7.28.1.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a chajja of 2.00 sqm (finished work).				
	MATERIAL:				
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5xl.00=2.50sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	2.75	160.00	440.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	94.80	23.98
	LABOUR:				
	Labour for dressing:				
0125	Mason (for plain stone work) 2nd class	day	0.50	361.00	180.50
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	1.70	114.48
	Mortar for pointing 1:2(1 Cement: 2 Stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	4993.40	44.94
9999	Pigment	L.S.	6.24	1.70	10.61
9999	Extra for using white cement	L.S.	26.91	1.70	45.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.50	297.00	445.50
9999	Scaffolding and sundries etc.	L.S.	16.12	1.70	27.40
	Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm				
9999	Cost of Brick cover support.	L.S.	104.00	1.70	176.80
	Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4-1/2x2.5x0.2x0.07=0.018cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	5526.50	99.48 A
	TOTAL				2060.44
	Add Water Charges @ 1% except on A i.e on (2,060.44 - 99.48 =) 1,960.96				19.61
	TOTAL				2080.05
	Add CPOH @ 15% except on A i.e on (2,080.05 - 99.48 =) 1,980.57				297.09
	Cost of 2 sqm				2377.14
	Cost of 1 sqm				1188.57
	Say				1188.55

7.28.2 White sand stone.

7.28.2.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a chajja of 2.00 sqm (finished work).				
	MATERIAL:				
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.75	180.00	495.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	94.80	23.98
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.50	361.00	180.50
	Labour for dressing				
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc. Mortar for pointing 1:2 (1 Cement: 2 Stone dust)	L.S.	67.34	1.70	114.48
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	4993.40	44.94
9999	Pigment	L.S.	6.24	1.70	10.61
9999	Extra cost of white cement	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.50	297.00	445.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding and sundries etc. Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm	L.S.	16.12	1.70	27.40
9999	Cost of Brick cover support. Brick work in triangular gap above cover with bricks of class designation 5 in cement mortar 1:4 ½x2.5x0.2x0.07=0.018cum	L.S.	104.00	1.70	176.80
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	5526.50	99.48 A
	TOTAL				2115.44
	Add Water Charges @ 1% except on A i.e on (2,115.44 - 99.48 =) 2,015.96				20.16
	TOTAL				2135.60
	Add CPOH @ 15% except on A i.e on (2,135.60 - 99.48 =) 2,036.12				305.42
	Cost of 2 sqm				2441.02
	Cost of 1 sqm				1220.51
	Say				1220.50

7.29 Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.29.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for (2.5x0.75m) 1.875 sqm MATERIAL: Taking 2.5mx75cm projection + 15cm bearing = 2.5x0.9 = 2.25 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	2.25	160.00	360.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	94.80	21.52
	LABOUR: Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.45	361.00	162.45
9999	Mortar for pointing 1:2	L.S.	53.82	1.70	91.49
9999	Pigment	L.S.	6.24	1.70	10.61
9999	Extra cost of white cement	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.60	361.00	216.60
0114	Beldar	day	0.80	297.00	237.60
9999	Scaffolding and sundries etc.	L.S.	13.52	1.70	22.98
	TOTAL				1169.00
	Add Water Charges @ 1%				11.69
	TOTAL				1180.69
	Add CPOH @ 15%				177.10
	Cost of 1.875 sqm				1357.79
	Cost of 1 sqm				724.15
	Say				724.15

7.29.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for (2.5x0.75m) 1.875 sqm.				
	MATERIAL:				
	Taking 2.5mx75cm projection + 15cm bearing = 2.5x0.9 = 2.25 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.25	180.00	405.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	94.80	21.52
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.45	361.00	162.45
9999	Mortar for pointing 1:2	L.S.	53.82	1.70	91.49
9999	Pigment	L.S.	6.24	1.70	10.61
9999	Extra cost of white cement	L.S.	26.91	1.70	45.75
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.60	361.00	216.60
0114	Beldar	day	0.80	297.00	237.60
9999	Scaffolding and sundries etc.	L.S.	13.52	1.70	22.98
	TOTAL				1214.00
	Add Water Charges @ 1%				12.14
	TOTAL				1226.14
	Add CPOH @ 15%				183.92
	Cost of 1.875 sqm				1410.06
	Cost of 1 sqm				752.03
	Say				752.05

7.30 30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for window 1.6m length and 0.70m width = 1.12 sqm				
	MATERIAL:				
	overall width 0.70+0.15=0.85 metres				
	Total area = 1.6x0.85=1.36sqm.				
	Red stone brackets (chisel dressed) 30mm average thickness over all width of brackets 0.53+0.23=0.76m				
	2x0.3x0.76=0.46				
	Total 1.36+0.46 =1.82sqm.				
	Add wastage @10% = 0.18sqm. Total = 2.00 sqm				
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	2.00	130.00	260.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.14	94.80	13.27
9999	Cement mortar 1:4	L.S.	13.52	1.70	22.98
	LABOUR:				
	Labour for dressing and fixing				
0125	Mason (for plain stone work) 2nd class	day	0.86	361.00	310.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				755.21
	Add Water Charges @ 1%				7.55
	TOTAL				762.76
	Add CPOH @ 15%				114.41
	Cost of 1.12 sqm				877.17
	Cost of 1 sqm				783.19
	Say				783.20

7.31 Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6mm dia as per design.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 bracket.				
	Quantity of stone for 1 bracket				
	1 x 55 x 22.5 x 45cm = 0.056cum or 56 cudm.				
	Red sand stone = 56 cudm.				
	Add wastage 10% = 5.6 cudm.				
	Total =61.6 cudm				
1160	Red sand stone block	10 cudm	61.6	65.00	400.40
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/ cudm	tonne	0.14	94.80	13.27
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.7926	361.00	647.13
0102	Blacksmith 1 st class	day	0.037	393.00	14.54
0114	Beldar	day	0.271	297.00	80.49
0115	Coolie	day	0.1355	297.00	40.24
0100	Bandhani	day	0.271	328.00	88.89
0373	Cramp Gun metal 25x6x300 mm	each	4.00	80.00	320.00
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.2464	361.00	88.95
0102	Blacksmith 1 st class	day	0.0336	393.00	13.20
0114	Beldar	day	0.1232	297.00	36.59
0115	Coolie	day	0.1232	297.00	36.59
0100	Bandhani	day	0.1232	328.00	40.41
0101	Bhisti	day	0.1232	328.00	40.41
9999	Scaffolding	L.S.	15.29	1.70	25.99
9999	Mortar for laying and pointing	L.S.	45.14	1.70	76.74
	Extra labour for ornamental finish				
0126	Mason (for ornamental stone work) 1 st class	day	0.95	393.00	373.35
	TOTAL				2337.19
	Add Water Charges @ 1%				23.37
	TOTAL				2360.56
	Add CPOH @ 15%				354.08
	Cost of each				2714.64
	Say				2714.65

7.32 Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.32.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum.				
	MATERIAL:				
	Stone work plain ashlar cyclopean				
	3x3x0.75 - 6.75 cudm				
7.12.1.1	Rate as per Item Number 7.12.1.1 of SH: Stone work	cum	0.00675	26283.00	177.41 A
9999	Extra for using white cement	L.S.	5.33	1.70	9.06
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.07	361.00	25.27
0114	Beldar	day	0.07	297.00	20.79
	TOTAL				232.53
	Add Water Charges @ 1% except on A i.e on (232.53 - 177.41 =) 55.12				0.55
	TOTAL				233.08
	Add CPOH @ 15% except on A i.e on (233.08 - 177.41 =) 55.67				8.35
	Cost of 0.00675 cum				241.43
	Cost of 1 cum				35767.41
	Say				35767.40

7.32.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum.				
	MATERIAL:				
	Stone work plain ashlar cyclopean				
	3x3x0.75 = 6.75 cudm				
7.12.1.2	Rate as per Item Number 7.12.1.2 of SH: Stone work	cum	0.00675	27057.00	182.63 A
9999	Extra for using white cement	L.S.	5.33	1.70	9.06
	LABOUR:				
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.07	361.00	25.27
0114	Beldar	day	0.07	297.00	20.79
	TOTAL				237.75
	Add Water Charges @ 1% except on A i.e on (237.75 - 182.63 =) 55.12				0.55
	TOTAL				238.30
	Add CPOH @ 15% except on A i.e on (238.30 - 182.63 =) 55.67				8.35
	Cost of 0.00675 cum				246.65
	Cost of 1 cum				36540.74
	Say				36540.75

7.33 Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.

7.33.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Red sand stone slab 40mm=1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	1.10	160.00	176.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.80	9.57
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	12.70	361.00	4584.70
0114	Beldar	day	8.45	297.00	2509.65
9999	Mortar and sundries.	L.S.	80.73	1.70	137.24
	TOTAL				7417.16
	Add Water Charges @ 1%				74.17
	TOTAL				7491.33
	Add CPOH @ 15%				1123.70
	Cost of 1 sqm				8615.03
	Say				8615.05

7.33.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	White sandstone slabx40mm = 1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	1.10	180.00	198.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.80	9.57
	LABOUR:				
	For making, dressing and fixing				
0125	Mason (for plain stone work) 2nd class	day	12.70	361.00	4584.70
0114	Beldar	day	8.45	297.00	2509.65
9999	Mortar and sundries.	L.S.	80.73	1.70	137.24
	TOTAL				7439.16
	Add Water Charges @ 1%				74.39
	TOTAL				7513.55
	Add CPOH @ 15%				1127.03
	Cost of 1 sqm				8640.58
	Say				8640.60

7.34 Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.

Note:- The quantity will be calculated by multiplying the depth measure from sub-soil water level upto the centre of gravity of stone work under sub-soil water with

the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for depth of water 0.30m.				
	Quantity of concrete = 14 cum.				
	pumping hours = 3 hrs. on 0.375day				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	550.00	206.25
0114	Beldar	day	4.00	297.00	1188.00
	for cleaning slush				
	TOTAL				1394.25
	Add Water Charges @ 1%				13.94
	TOTAL				1408.19
	Add CPOH @ 15%				211.23
	Cost of 4.2 cum / mtr depth				1619.42
	cum/mtr depth				385.58
	Say				385.60

7.35 Extra for laying stone work in or under foul position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	393.00	7.86
0124	Mason (brick layer) 2nd class	day	0.02	361.00	7.22
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	0.15	297.00	44.55
	TOTAL				133.88
	Add Water Charges @ 1%				1.34
	TOTAL				135.22
	Add CPOH @ 15%				20.28
	Cost of 1 cum				155.50
	Say				155.50

7.36 Wall lining butch work upto 10 m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-incharge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Dholpur stone 40mm thick Wall face = 1.00sqm.				
	Deduct for embed within 3x0.04x0.10=0.12 sqm = 0.88sqm.				
	Add wastage 5% = 0.04sqm. Total = 0.92 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1165	White sand stone slab 40 mm thick (un-dressed) 75mm thick 3x0.04x1.0 = 0.12 sqm. Add wastage 5% = 0.01 sqm. Total =0.13 sqm	sqm	0.92	180.00	165.60
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	0.13	300.00	39.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab 0.92x0.04 =0.0368 cum. 0.13x0.075 =0.0100 cum. = 0.0468 cum. or 468 cudm. 468 cudm @ 2.3 kg/cudm = 108 kg = 0.108 tonne	tonne	0.108	94.80	10.24
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device assuming 50mm thick strips 20x1.0 = 20 metre Cement mortar with coarse sand 1:3 for (a) stone backing 12mm thick = 0.0144 cum. (b) for fixing of stone = 0.40/25 - 0.0160 cum. Total = 0.0304 cum	metre	20.00	9.00	180.00
3.8	Rate as per Item Number 3.8 of SH: Mortars Cutting chases and making good with mortar after insurting stone etc.	cum	0.0304	4347.70	132.17
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	3.00	77.65	232.95 A
9999	White cement and pigment for pointing	L.S.	40.43	1.70	68.73
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	0.25	393.00	98.25
0125	Mason (for plain stone work) 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.5	297.00	148.50
0101	Bhisti	day	0.03	328.00	9.84
9999	Sundries and scaffolding brushes etc.	L.S.	26.91	1.70	45.75
	TOTAL				1221.28
	Add Water Charges @ 1% except on A i.e on (1,221.28 - 232.95 =) 988.33				9.88
	TOTAL				1231.16
	Add CPOH @ 15% except on A i.e on (1,231.16 - 232.95 =) 998.21				149.73
	Cost of 1 sqm				1380.89
	Say				1380.90

7.37 Stone work (machine cut edges veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).

7.37.1 Kota stone slabs exposed face dressed and rubbed.

7.37.1.1 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: 25mm thids. kota stoneslabs = 10 sqm. Add 15% wistage = 1.50 sqm Total 11.50 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	11.50	210.00	2415.00
	Cement Mortar 1 : 3				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.80	63.52
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
9999	Cement mortar for pointing	L.S.	40.43	1.70	68.73
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	6.50	361.00	2346.50
0114	Beldar	day	6.50	297.00	1930.50
0115	Coolie	day	4.30	297.00	1277.10
0139	Skilled Beldar (for floor rubbing etc.)	day	10.80	328.00	3542.40
9999	Sundries	L.S.	111.54	1.70	189.62
	TOTAL				12459.44
	Add Water Charges @ 1%				124.59
	TOTAL				12584.03
	Add CPOH @ 15%				1887.60
	Cost of 10 sqm				14471.63
	Cost of 1 sqm				1447.16
	Say				1447.15

7.38 Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.

7.38.1 8 mm thick (mirror polished and machine cut edge).

7.38.1.1 Granite stone of any colour and shade.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Granite stone tile = 10.00 sqm.				
	Add 2.5% wastage = 0.25 sqm				
	Total =10.25 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	10.25	700.00	7175.00
9999	Carriage of granite tiles	L.S.	40.04	1.70	68.07
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4347.70	608.68
0367	Portland Cement slurry @ 3.3 kg/sqm	tonne	0.033	5240.00	172.92
9999	Mortar for pointing in white cement	L.S.	25.74	1.70	43.76
	LABOUR:				
	Labour for placing and fixing				
0123	Mason (brick layer) 1 st class	day	7.70	393.00	3026.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	7.70	297.00	2286.90
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.70	442.00
9999	Sundries	L.S.	171.60	1.70	291.72
	TOTAL				14115.15
	Add Water Charges @ 1%				141.15
	TOTAL				14256.30
	Add CPOH @ 15%				2138.44
	Cost of 10 sqm				16394.74
	Cost of 1 sqm				1639.47
	Say				1639.45

7.38.1.2 Raj Nagar plain white marble / Udaipur green marble / Zebra black marble.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	8mm thick Raj Nagar white stone tile = 10.00sqm Add 2.5% wastage = 0.25 sqm Total = 10.25sqm				
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	10.25	500.00	5125.00
9999	Carriage of Raj Nagar white stone tiles	L.S.	40.04	1.70	68.07
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4347.70	608.68
0367	Portland Cement slurry @ 3.3 kg/sqm	tonne	0.033	5240.00	172.92
9999	Mortar for pointing in white cement	L.S.	25.74	1.70	43.76
	Labour for placing and fixing :				
0123	Mason (brick layer) 1 st class day		7.70	393.00	3026.10
0114	Beldar	day	7.70	297.00	2286.90
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.70	442.00
9999	Sundries	L.S.	171.60	1.70	291.72
	TOTAL				12065.15
	Add Water Charges @ 1%				120.65
	TOTAL				12185.80
	Add CPOH @ 15%				1827.87
	Cost of 10 sqm				14013.67
	Cost of 1 sqm				1401.37
	Say				1401.35

7.39 Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Analysis same as Item Number 13.74				
	MATERIAL:				
9999	Scaffolding	L.S.	215.28	1.70	365.98
0123	Mason (brick layer) 1st class	day	0.30	393.00	117.90
0114	Beldar	day	0.30	297.00	89.10
0101	Bhisti	day	0.15	328.00	49.20
9999	Sundries	L.S.	28.60	1.70	48.62
	TOTAL				670.80
	Add Water Charges @ 1%				6.71
	TOTAL				677.51
	Add CPOH @ 15%				101.63
	Cost of 10 sqm				779.14
	Cost of 1 sqm				77.91
	Say				77.90

7.40 Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and / or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-Charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).

7.40.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Red sand stone = 3 x 1.00 sqm = 3.00 sqm				
	Add wastage 25% = 0.75 sqm				
	Total=3.75 sqm				
	Add 20% wastage infixing due to broken edge = 0.60 sqm				
	Total = 4.35 sqm				
8683	Red sand stone gang saw cut 30 mm thick	sqm	4.35	460.00	2001.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	9.00	90.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Backing rod	L.S.	30.68	1.70	52.16
9999	Fixing including weather sealant and removing	L.S.	153.40	1.70	260.78
9999	Double scafolding	L.S.	204.75	1.70	348.08
0126	Mason (for ornamental stone work) 1st class	day	2.00	393.00	786.00
0114	Beldar	day	4.00	297.00	1188.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour for lifting stone				
0114	Beldar	day	1.00	297.00	297.00
9999	Silicon gun / pump etc.	L.S.	204.75	1.70	348.08
	Labour for sealing				
0116	Fitter (grade 1)	day	0.25	393.00	98.25
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	204.75	1.70	348.08
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	1.70	87.07
	TOTAL				6073.38
	Add Water Charges @ 1%				60.73
	TOTAL				6134.11
	Add CPOH @ 15%				920.12
	Cost of 3 sqm				7054.23
	Cost of 1 sqm				2351.41
	Say				2351.40

7.40.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	White sand stone = 3.00sqm				
	Add wastage 25% = 0.75 sqm =3.75 sqm.				
	Add 20% wastage infixing due to broken edge = 0.60 sqm				
	Total = 4.35 sqm				
8684	White sand stone gang saw cut 30 mm thick	sqm	4.35	480.00	2088.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	9.00	90.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.80	20.38
9999	Backing rod	L.S.	30.68	1.70	52.16
9999	Fixing including weather sealant and removig	L.S.	153.40	1.70	260.78
9999	Double scafolding	L.S.	204.75	1.70	348.08
0126	Mason (for ornamental stone work) 1 st class	day	2.00	393.00	786.00
0114	Beldar	day	4.00	297.00	1188.00
	Labour for lifting stone				
0114	Beldar	day	1.00	297.00	297.00
9999	Silicon gun / pump etc.	L.S.	204.75	1.70	348.08
	Labour for sealing				
0116	Fitter (grade 1)	day	0.25	393.00	98.25
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	204.75	1.70	348.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	1.70	87.07
	TOTAL				6160.38
	Add Water Charges @ 1%				61.60
	TOTAL				6221.98
	Add CPOH @ 15%				933.30
	Cost of 3 sqm				7155.28
	Cost of 1 sqm				2385.09
	Say				2385.10

7.41 Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square / rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of MS brackets / lugs of angle iron / flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps / pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-Charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-Charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100.78 kg. M.S. tube 50x25x18mm vertical=4x3.0=12.00m. Vertical=3x4x0.93=11.16m Total= 23.16m. Add 10% wastage = 2.32 Total 25.48 mts@2.02 kg/m=51.47 kg				
4009	Mild steel tubes hot finished welded kilogram Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total= 12.00 Add 10% wastage = 1.20m Total= 13.20m @4.50kg/m=59.4 kg or 0.594 q	type	51.47	52.00	2676.44
1007	Structural steel such as tees, angles channels and R.S. joists Cement concrete 1:2:4 = 16x0.30x0.23x0.30=0.331 cum	quintal	0.594	4650.00	2762.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Making holes in brick work=16Nos LABOUR:	cum	0.331	4921.70	1629.08 A
0123	Mason (brick layer) 1 st class	day	0.26	393.00	102.18
0124	Mason (brick layer) 2nd class	day	0.26	361.00	93.86
0114	Beldar	day	2.00	297.00	594.00
	Welding for frame welding 16x(2.5+5+2.5+5) = 240 cm For hold fast 16x20cm = 320cm Total =560cm				
1215	Welding by electric plant	cm	560.00	1.80	1008.00
	LABOUR:				
0102	Blacksmith 1 st class	day	1.34	393.00	526.62
0100	Bandhani	day	0.67	328.00	219.76
0114	Beldar	day	4.92	297.00	1461.24
9999	Sundries	L.S.	80.73	1.70	137.24
	Painting with epoxy paint over and including priming coat area 22.80x0.15 = 3.42 12x0.2=2.40 Total = 5.82sqm				
13.52.1	Rate as per Item Number 13.52.1 of SH: Finishing	sqm	5.82	109.80	639.04 A
9999	For labour scaffolding etc.	L.S.	80.73	1.70	137.24
	TOTAL				11986.80
	Add Water Charges @ 1% except on A i.e on (11,986.80 - 2,268.12 =) 9,718.68				97.19
	TOTAL				12083.99
	Add CPOH @ 15% except on A i.e on (12,083.99- 2,268.12 =) 9,815.87				1472.38
	Cost of 100.78 kilogram				13556.37
	Cost of 1 kilogram				134.51
	Say				134.50

7.42 Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos MATERIAL:				
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding LABOUR: for making holes, recesses etc. and fixing of stainless stul cramps	each	10.00	90.00	900.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0103	Blacksmith 2nd class	day	0.10	361.00	36.10
0124	Mason (brick layer) 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.10	297.00	326.70
9999	Scaffolding, hire charge of drill machine etc.	L.S.	20.80	1.70	35.36
9999	Sundries	L.S.	20.80	1.70	35.36
	TOTAL				1694.52
	Add Water Charges @ 1%				16.95
	TOTAL				1711.47
	Add CPOH @ 15%				256.72
	Cost of 10 nos				1968.19
	Cost of each				196.82
	Say				196.80

SUB HEAD : 8.0

MARBLE & GRANITE WORK

8.1 Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of 12 mm thick average in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).

8.1.1 Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble.

8.1.1.1 Area of slab upto 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.50 sqm.				
	Finished work = 0.50sqm				
	Add for wastage @ 20% = 0.10 sqm				
	Total = 0.60 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.60	650.00	390.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.03	94.80	2.84
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.008	4347.70	34.78
	White cement mortar 1:2 (1 white cement: 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0012	10950.20	13.14
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.335	393.00	131.66
0100	Bandhani	day	0.335	328.00	109.88
0114	Beldar	day	0.335	297.00	99.50
0115	Coolie	day	0.335	297.00	99.50
0101	Bhisti	day	0.335	328.00	109.88
0128	Mate	day	0.165	328.00	54.12
0102	Blacksmith 1 st class	day	0.135	393.00	53.06
9999	Scaffolding	L.S.	13.39	1.70	22.76
	TOTAL				1121.12
	Add Water Charges @ 1%				11.21
	TOTAL				1132.33
	Add CPOH @ 15%				169.85
	Cost of 0.5 sqm				1302.18
	Cost of 1 sqm				2604.36
	Say				2604.35

8.1.1.2 Area of slab over 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 sqm.				
	Finished work = 1.00sqm				
	Add for wastage @ 20% = 0.20 sqm				
	Total = 1.20sqm				
7453	Raj nagar plain white marble (table rubbed and	sqm	1.20	750.00	900.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7453	polished) 18 mm thick (slab area more than 0.50 sqm)				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.06	94.80	5.69
	Cement mortar 1:3 (Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0144	4347.70	62.61
	White cement mortar 1:2 (1 white cement: 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0025	10950.20	27.38
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.67	393.00	263.31
0100	Bandhani	day	0.67	328.00	219.76
0114	Beldar	day	0.67	297.00	198.99
0115	Coolie	day	0.67	297.00	198.99
0101	Bhisti	day	0.67	328.00	219.76
0128	Mate	day	0.33	328.00	108.24
0102	Blacksmith 1 st class	day	0.27	393.00	106.11
9999	Scaffolding	L.S.	26.91	1.70	45.75
	TOTAL				2356.59
	Add Water Charges @ 1%				23.57
	TOTAL				2380.16
	Add CPOH @ 15%				357.02
	Cost of 1 sqm				2737.18
	Say				2737.20

8.2 Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.

8.2.1 Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble.

8.2.1.1 Area of slab upto 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.50 sqm.				
	Mirror polished Abu plain white = 0.50 sqm				
	Wastage 5% = 0.025 sqm				
	Total = 0.525 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	650.00	341.25
	Cement morter 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3654.15	43.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	393.00	275.10
0114	Beldar	day	0.325	297.00	96.52
0115	Coolie	day	0.325	297.00	96.52
9999	Moulding and edge polishing	L.S.	39.00	1.70	66.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.70	27.62
	TOTAL				947.16
	Add Water Charges @ 1%				9.47
	TOTAL				956.63
	Add CPOH @ 15%				143.49
	Cost of 0.5 sqm				1100.12
	Cost of 1 sqm				2200.24
	Say				2200.25

8.2.1.2 Area of slab over 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 sqm.				
	Mirror polished Abu plain white = 1.00 sqm				
	Wastage 5% = 0.05 sqm				
	Total.=1.05 sqm				
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	1.05	750.00	787.50
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.40	393.00	550.20
0114	Beldar	day	0.65	297.00	193.05
0115	Coolie	day	0.65	297.00	193.05
9999	Moundling and edge polishing	L.S.	78.00	1.70	132.60
9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.50	1.70	55.25
	TOTAL				1999.35
	Add Water Charges @ 1%				19.99
	TOTAL				2019.34
	Add CPOH @ 15%				302.90
	Cost of 1 sqm				2322.24
	Say				2322.25

8.2.2 Granite of any colour and shade.

8.2.2.1 Area of slab upto 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.50 sqm.				
	Mirror polished granite= 0.50 sqm.				
	Wastage 5% = 0.025 sqm				
	Total = 0.525 sqm				
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	1900.00	997.50
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3654.15	43.85
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	393.00	275.10
0114	Beldar	day	0.325	297.00	96.52
0115	Coolie	day	0.325	297.00	96.52
9999	Moundling and edge polishing	L.S.	39.00	1.70	66.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.70	27.62
	TOTAL				1603.41
	Add Water Charges @ 1%				16.03
	TOTAL				1619.44
	Add CPOH @ 15%				242.92
	Cost of 0.5 sqm				1862.36
	Cost of 1 sqm				3724.72
	Say				3724.70

8.2.2.2 Area of slab over 0.50 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.00 sqm.				
	Mirror polished granite= 2.00 sqm				
	Wastage 5% = 0.10sqm				
	Total = 2.10sqm				
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2.10	2000.00	4200.00
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.048	3654.15	175.40
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	2.80	393.00	1100.40
0114	Beldar	day	1.30	297.00	386.10
0115	Coolie	day	1.30	297.00	386.10
9999	Moulding and edge polishing	L.S.	78.00	1.70	132.60
9999	Sundries apoxy resin & cutting machine etc.	L.S.	65.00	1.70	110.50
	TOTAL				6491.10
	Add Water Charges @ 1%				64.91
	TOTAL				6556.01
	Add CPOH @ 15%				983.40
	Cost of 2 sqm				7539.41
	Cost of 1 sqm				3769.71
	Say				3769.70

8.3 Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.

8.3.1 Marble work.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00m.				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	1.50	230.00	345.00
0114	Beldar	day	2.00	297.00	594.00
9999	Sundries Blades & Polish etc.	L.S.	78.00	1.70	132.60
	TOTAL				1071.60
	Add Water Charges @ 1%				10.72
	TOTAL				1082.32
	Add CPOH @ 15%				162.35
	Cost of 10 metre				1244.67
	Cost of 1 metre				124.47
	Say				124.45

8.3.2 Granite work.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00m.				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	2.50	230.00	575.00
0114	Beldar	day	3.50	297.00	1039.50
9999	Sundries Blades & Polish etc.	L.S.	117.00	1.70	198.90
	TOTAL				1813.40
	Add Water Charges @ 1%				18.13
	TOTAL				1831.53
	Add CPOH @ 15%				274.73
	Cost of 10 metre				2106.26
	Cost of 1 metre				210.63
	Say				210.65

8.4 Extra for fixing marble / granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for facia 1.5m long and 0.15m wide.				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.30	393.00	117.90
0115	Coolie	day	0.30	297.00	89.10
9999	Scaffolding, expoxy etc.	L.S.	39.00	1.70	66.30
	Cement mortar 1:4 (1 Cement: 4 Coarse sand) 1.5x0.15x0.02 = 0.005 cum				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.005	3654.15	18.27
	TOTAL				291.57
	Add Water Charges @ 1%				2.92
	TOTAL				294.49
	Add CPOH @ 15%				44.17
	Cost of 1.5 metre				338.66
	Cost of 1 metre				225.77
	Say				225.75

8.5 Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for providing one opening of required size.				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	0.40	393.00	157.20
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	15.30	1.70	26.01
	TOTAL				302.01
	Add Water Charges @ 1%				3.02
	TOTAL				305.03
	Add CPOH @ 15%				45.75
	Cost of each				350.78
	Say				350.80

8.6 Mirror polishing on marble work/ granite work/ stone work where ever required to give high gloss finish complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0013	Machine for rubbing of floors	day	1.00	350.00	350.00
0114	Beldar	day	2.50	297.00	742.50
0101	Bhisti	day	1.50	328.00	492.00
9999	Sundries grease, mop grinding stones etc.	L.S.	65.00	1.70	110.50
	TOTAL				1695.00
	Add Water Charges @ 1%				16.95
	TOTAL				1711.95
	Add CPOH @ 15%				256.79
	Cost of 10 sqm				1968.74
	Cost of 1 sqm				196.87
	Say				196.85

8.7 Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).

8.7.1 Gunmetal cramps.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cramps.				
	MATERIAL:				
	Gun Metal cramp				
	$10x0.064x0.025x0.006 = 9.6x10^{-5}$				
	$10x0.025x0.025x0.006 = 3.7x10^{-5}$				
	$=13.3x10^{-5}$				
	Less hole				
	$10x0.024x0.010x0.006 = 1.4x10^{-5}$				
	$=11.9x10^{-5}$				
	$11.9x10^{-5} \times 8640 = 1.03$ kg				
	Add wastage @ 5%=0.051 kg				
	=1.08 kg				
7338	Gun metal cramp	kilogram	1.08	330.00	356.40
9999	Carriage	L.S.	3.90	1.70	6.63
	Cement montar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5107.40	5.11
9999	Labour for fixing in position	L.S.	65.00	1.70	110.50
	TOTAL				478.64
	Add Water Charges @ 1%				4.79
	TOTAL				483.43
	Add CPOH @ 15%				72.51
	Cost of 1.03 kg				555.94
	Cost of 1 kg				539.75
	Say				539.75

8.7.2 Stainless steel cramps.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cramps.				
	MATERIAL:				
	Stainless steel cramp				
	$10x0.064x0.025x0.006 = 9.6x10^{-5}$				
	$10x0.025x0.025x0.006 = 3.7x10^{-5}$				
	$=13.3x10^{-5}$				
	Less hole				
	$10x0.024x0.010x0.006=1.4x10^{-5}$				
	$11.9x10^{-5}x7850=0.934$ kg				
	Add wastage @ 5%=0.047 kg				
	Total = 0.981kg				
7339	Stainless steel cramp	kilogram	0.981	340.00	333.54
9999	Carriage	L.S.	3.90	1.70	6.63
	Cement montar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5107.40	5.11
9999	Labour for fixing in position	L.S.	65.00	1.70	110.50
	TOTAL				455.78
	Add Water Charges @ 1%				4.56
	TOTAL				460.34
	Add CPOH @ 15%				69.05
	Cost of 0.934 kg				529.39
	Cost of 1 kg				566.80
	Say				566.80

8.8 Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.

8.8.1 Wedge expansion type.

8.8.1.1 Fastener with threaded dia 6 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 nos. W.E.H. fastener.				
	MATERIAL:				
7430	Wedge expansion hold fastener 1/4" or 6 mm 36.5mm length	each	30.00	14.00	420.00
1034	Bolts and nuts up to 300 mm in length (36.5+10mm)	quintal	0.0045	5600.00	25.20
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	393.00	98.25
0114	Beldar	day	0.25	297.00	74.25
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc	L.S.	32.50	1.70	55.25
	TOTAL				672.95
	Add Water Charges @ 1%				6.73
	TOTAL				679.68
	Add CPOH @ 15%				101.95
	Cost of 30 nos				781.63
	Cost of each				26.05
	Say				26.05

8.8.1.2 Fastener with threaded dia 10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 nos. W.E.H. fastener				
	MATERIAL:				
7431	Wedge expansion hold fastener 3/8" or 10 mm 44.5mm length	each	30.00	15.00	450.00
1034	Bolts and nuts up to 300 mm in length (44.5+10mm)	quintal	0.006	5600.00	33.60
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	393.00	98.25
0114	Beldar	day	0.25	297.00 7	4.25
9999	Hire and running charge for hand drill machine Sundries, drilling bit scaffolding etc	L.S.	32.50	1.70	55.25
	TOTAL				711.35
	Add Water Charges @ 1%				7.11
	TOTAL				718.46
	Add CPOH @ 15%				107.77
	Cost of 30 nos				826.23
	Cost of each				27.54
	Say				27.55

8.8.1.3 Fastener with threaded dia 12 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 nos.				
	MATERIAL:				
7432	Wedge expansion hold fastener 1/2" or 12 mm 58.7mm length	each	30.00	28.00	840.00
1034	Bolts and nuts up to 300 mm in length Length (58.7+10mm) @ 0.05 kg./each	quintal	0.0075	5600.00	42.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	393.00	98.25
0114	Beldar	day	0.25	297.00	74.25
9999	Hire and running charges for hand drill	L.S.	32.50	1.70	55.25
	TOTAL				1109.75
	Add Water Charges @ 1%				11.10
	TOTAL				1120.85
	Add CPOH @ 15%				168.13
	Cost of 30 nos				1288.98
	Cost of each				42.97
	Say				42.95

8.9 Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete.

8.9.1 8 mm thick.

8.9.1.1 Raj nagar plain white marble / Udaipur green marble / Zebra black marble.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm. 8mm thick marble tiles. Qty. = 1.00 sqm. + Add wastage @2.5% = 0.025 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 1.025 sqm				
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	1.025	360.00	369.00
9999	Carriage of tiles	L.S.	3.95	1.70	6.72
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing	L.S.	25.38	1.70	43.15
0367	Portland Cement	tonne	0.0033	5240.00	17.29
0123	Mason (brick layer) 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries etc.	L.S.	16.90	1.70	28.73
	TOTAL				1215.76
	Add Water Charges @ 1%				12.16
	TOTAL				1227.92
	Add CPOH @ 15%				184.19
	Cost of 1 sqm				1412.11
	Say				1412.10

8.9.1.2 Granite of any colour and shade.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	8mm thick Granite tiles.				
	Qty. = 1.00 sqm. + Add wastage .@2.5% = 0.025sqm				
	Total = 1.025 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	1.025	700.00	717.50
9999	Carriage of tiles	L.S.	3.95	1.70	6.72
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing	L.S.	25.38	1.70	43.15
0367	Portland Cement	tonne	0.0033	5240.00	17.29
0123	Mason (brick layer) 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries etc.	L.S.	16.90	1.70	28.73
	TOTAL				1564.26
	Add Water Charges @ 1%				15.64
	TOTAL				1579.90
	Add CPOH @ 15%				236.98
	Cost of 1 sqm				1816.88
	Say				1816.90

8.10 Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-Charge and finished smooth.

8.10.1 White Agaria Marble Stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one No or 0.375 sqm. MATERIAL: Agaria Marble Stone 1 x 0.75 x0.50 = 0.375 + Add wastage @ 20% = 0.075 sqm. Total = 0.45sqm				
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	0.45	1750.00	787.50
9999	Cement concrete 1:2:4 for filling	L.S.	21.58	1.70	36.69
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.16	1.70	73.37
9999	Sundries	L.S.	21.58	1.70	36.69
	TOTAL				934.25
	Add Water Charges @ 1%				9.34
	TOTAL				943.59
	Add CPOH @ 15%				141.54
	Cost of 0.375 sqm				1085.13
	Cost of 1 sqm				2893.68
	Say				2893.70

8.10.2 Granite Stone of approved shade.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one No or 0.375 sqm. MATERIAL: Granite Stone 1x0.75x0.50 = 0.375sqm.+ Add wastage @ 20% = 0.075 sqm Total = 0.45 sqm				
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18 mm thick	sqm	0.45	1800.00	810.00
9999	Cement concrete 1:2:4 for fixing	L.S.	21.58	1.70	36.69
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.16	1.70	73.37
9999	Sundries	L.S.	21.58	1.70	36.69
	TOTAL				956.75
	Add Water Charges @ 1%				9.57
	TOTAL				966.32
	Add CPOH @ 15%				144.95
	Cost of 0.375 sqm				1111.27
	Cost of 1 sqm				2963.39
	Say				2963.40

8.11 Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.

a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 sqm.				
	Details of cost for 0.5 sqm				
	Finished work= 0.5 sqm				
	Add for wastage @ 20%=0.1sqm				
	Total 0.60 sqm				
	MATERIAL:				
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	0.60	3330.00	1998.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.03	94.80	2.84
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.008	4347.70	34.78
0368	White Cement	tonne	0.00165	14000.00	23.10
	Slurry @ 3.3kg/ sqm				
2209	Carriage of cement	tonne	0.00165	94.80	0.16
9999	Mortar for pointing in white cement	L.S.	25.35	1.70	43.10
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.335	393.00	131.66
0100	Bandhani	day	0.335	328.00	109.88
0114	Beldar	day	0 335	297.00	99.50
0115	Coolie	day	0.335	297.00	99.50
0101	Bhisti	day	0.335	328.00	109.88
0128	Mate	day	0.165	328.00	54.12
0102	Blacksmith 1 st class	day	0.135	393.00	53.06
9999	Scaffolding	L.S.	13.39	1.70	22.76
	TOTAL				2782.34
	Add Water Charges @ 1%				27.82
	TOTAL				2810.16
	Add CPOH @ 15%				421.52
	Cost of 0.50 sqm				3231.68
	Cost of 1 sqm				6463.36
	Say				6463.35

8.12 Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :

a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 sqm.				
	MATERIAL:				
	18 mm thick Flamed finish granite stone slab 10.00 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add for wastage 15%= 1.50 sqm Total: 11.50 sqm				
1239	18 mm thick Flamed finish granite stone slab	sqm	11.50	1695.00	19492.50
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.80	63.52
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.05	5240.00	262.00
0874	Black colour dark shade pigment	kilogram	4.50	55.00	247.50
2209	Carriage of cement	tonne	0.05	94.80	4.74
9999	Mortar for pointing in white cement	L.S.	25.35	1.70	43.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.20	361.00	433.20
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
9999	Sundries	L.S.	208.13	1.70	353.82
	TOTAL				23952.91
	Add Water Charges @ 1%				239.53
	TOTAL				24192.44
	Add CPOH @ 15%				3628.87
	Cost of 10 sqm				27821.31
	Cost of 1 sqm				2782.13
	Say				2782.15

SUB HEAD : 9.0

WOOD AND PVC WORK

9.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).

9.1.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm. MATERIAL: Superior class teakwood such as Dandeli Balarshah or Malabar 2x206.75x9.5x7.0cm =0.028cum+ 1x117.5x9.5x7.0cm = 0.008cum. 1x117.5x9.5x7.0cm = 0.008cum. = 0.036cum.+ Add for wastage @ 5% = 0.002cum. Grand Total = 0.038cum = 38 cudm				
1189	Second class teak wood in scantling	10 cudm	38.00	660.00	2508.00
2204	Carriage of timber	cum	0.038	121.88	4.63
	LABOUR:				
0156	Carpenter (average)	day	0.72	377.00	271.44
0114	Beldar	day	0.07	297.00	20.79
	TOTAL				2804.86
	Add Water Charges @ 1%				28.05
	TOTAL				2832.91
	Add CPOH @ 15%				424.94
	Cost of 0.036 cum				3257.85
	Cost of 1 cum				90495.83
	Say				90495.80

9.1.2 Sal wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm. MATERIAL: Salwood 2x206.75x9.5x7.0cm =0.028cum+ 1x117.50x9.5x7.0cm = 0.008cum. = 0.036cum.+ Add for wastage @ 5% = 0.002cum. Grand Total = 0.038cum = 38 cudm				
1199	Sal wood in scantling	10 cudm	38.00	520.00	1976.00
2204	Carriage of timber	cum	0.038	121.88	4.63
	LABOUR:				
0156	Carpenter (average)	day	0.72	377.00	271.44
0114	Beldar	day	0.07	297.00	20.79
	TOTAL				2272.86
	Add Water Charges @ 1%				22.73
	TOTAL				2295.59
	Add CPOH @ 15%				344.34
	Cost of 0.036 cum				2639.93
	Cost of 1 cum				73331.39
	Say				73331.40

9.1.3 Kiln seasoned and chemically treated Hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm.				
	MATERIAL:				
	Hollock wood				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
2466	Hollock wood in scantling	10 cudm	38.00	325.00	1235.00
2204	Carriage of timber	cum	0.038	121.88	4.63
2504	Kiln seasoning of timber	cum	0.038	730.00	27.74
9999	Chemical treatment	L.S.	8.97	1.70	15.25
	LABOUR:				
0156	Carpenter (average)	day	0.72	377.00	271.44
0114	Beldar	day	0.07	297.00	20.79
	TOTAL				1574.85
	Add Water Charges @ 1%				15.75
	TOTAL				1590.60
	Add CPOH @ 15%				238.59
	Cost of 0.036 cum				1829.19
	Cost of 1 cum				50810.83
	Say				50810.85

9.2 Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001(Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm.				
	MATERIAL:				
	Laminated veneer lumber including wastage @ 5%				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	38.00	710.00	2698.00
2204	Carriage of timber	cum	0.038	121.88	4.63
	LABOUR:				
0111	Carpenter 1 st class	day	0.20	393.00	78.60
0112	Carpenter 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				2912.83
	Add Water Charges @ 1%				29.13
	TOTAL				2941.96
	Add CPOH @ 15%				441.29
	Cost of 0.036 cum				3383.25
	Cost of 1 cum				93979.17
	Say				93979.20

9.3 Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position.

9.3.1 Sal wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ceiling for a room 3x3m.				
	MATERIAL:				
	Salwood				
	= 6x3.30x(50/1000)x(125/1000)= 0.1238 cum. +				
	Cross battens 60mm centre to center				
	38x50mm.				
	6x3x(38/1000)x(50/1000)=0.0342cum.				
	= 0.1580 cum.+				
	Add for wastage @ 5% = 0.0079 cum.				
	= 0.1659 cum. say 166 cudm				
1199	Sal wood in scantling	10 cudm	166.00	520.00	8632.00
2204	Carriage of timber	cum	166.00	121.88	20.23
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries and screws etc.	L.S.	53.82	1.70	91.49
	TOTAL				9401.72
	Add Water Charges @ 1%				94.02
	TOTAL				9495.74
	Add CPOH @ 15%				1424.36
	Cost of 0.158 cum				10920.10
	Cost of 1 cum				69114.56
	Say				69114.60

9.3.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ceiling for a room 3x3m.				
	MATERIAL:				
	Hollock wood				
	= 6x3.30x(50/1000)x(125/1000)= 0.1238 cum. +				
	Cross battens 60mm centre to center				
	38x50mm.				
	6x3x(38/1000)x(50/1000)=0.0342cum.				
	= 0.1580 cum.+				
	Add for wastage @ 5% = 0.0079 cum.				
	= 0.1659 cum. say 166 cudm				
2466	Hollock wood in scantling	10 cudm	166.00	325.00	5395.00
2204	Carriage of timber	cum	0.166	121.88	20.23
2504	Kiln seasoning of timber	cum	0.166	730.00	121.18
9999	Chemical treatment	L.S.	18.20	1.70	30.94
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries screws etc	L.S.	53.82	1.70	91.49
	TOTAL				6316.84
	Add Water Charges @ 1%				63.17
	TOTAL				6380.01
	Add CPOH @ 15%				957.00
	Cost of 0.158 cum				7337.01
	Cost of 1 cum				46436.77
	Say				46436.80

9.4 Extra for circular works, such as in frames of fan light.

9.4.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm.				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.1				
	MATERIAL:				
1189	Second class teak wood in scantling	10 cudm	3.80	660.00	250.80
2204	Carriage of timber	cum	0.0038	121.88	0.46
	LABOUR:				
0156	Carpenter (average)	day	0.072	377.00	27.14
0114	Beldar	day	0.007	297.00	2.08
	TOTAL				280.48
	Add Water Charges @ 1%				2.80
	TOTAL				283.28
	Add CPOH @ 15%				42.49
	Cost of 0.036 cum				325.77
	Cost of 1 cum				9049.17
	Say				9049.15

9.4.2 Sal wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm.				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.2				
	MATERIAL:				
1199	Sal wood in scantling	10 cudm	3.80	520.00	197.60
2204	Carriage of timber	cum	0.0038	121.88	0.46
	LABOUR:				
0156	Carpenter (average)	day	0.072	377.00	27.14
0114	Beldar	day	0.007	297.00	2.08
	TOTAL				227.28
	Add Water Charges @ 1%				2.27
	TOTAL				229.55
	Add CPOH @ 15%				34.43
	Cost of 0.036 cum				263.98
	Cost of 1 cum				7332.78
	Say				7332.80

9.4.3 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for chowkhat of a door 206.75x117.5cm.				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.3				
	MATERIAL:				
2466	Hollock wood in scantling	10 cudm	3.80	325.00	123.50
2204	Carriage of timber	cum	0.0038	121.88	0.46
2504	Kiln seasoning of timber	cum	0.0038	730.00	2.77
9999	Chemical treatment	L.S.	0.90	1.70	1.53

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.072	377.00	27.14
0114	Beldar	day	0.007	297.00	2.08
	TOTAL				157.48
	Add Water Charges @ 1%				1.57
	TOTAL				159.05
	Add CPOH @ 15%				23.86
	Cost of 0.036 cum				182.91
	Cost of 1 cum				5080.83
	Say				5080.85

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S.pressed butt hinges bright finished of required size with necessery screws, excluding panelling which will be paid for separately, all complete as per direction of Engineerin- charge.

9.5.1 Second class teak wood.

9.5.1.1 35 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a Door (l/3rd glazed and 2/3rd panelled) 200xl08cm = 2.16sqm).				
	MATERIAL:				
	Teak wood				
	Styles 4x200x10.0x3.5cm = 0.028cum+				
	Rails				
	Top rails1x110.5x3.5cm = 0.004cum.+				
	Bottom rails 1x110.5x20x3.5cm = 0.008cum+				
	Lock rails 1x110.5x15x3.5cm = 0.006cum+				
	Lock rails 1x110.5x15x3.5cm = 0.006cum+				
	Beading 2x186. 1x1. 9x1.2cm = 0.001cum.				
	Total = 0.047 cum+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cudm				
1190	Second class teak wood in planks	10 cudm	51.00	725.00	3697.50
2204	Carriage of timber	cum	0.051	121.88	6.22
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4767.75
	Add Water Charges @ 1%				47.68
	TOTAL				4815.43
	Add CPOH @ 15%				722.31
	Cost of 2.16 sqm				5537.74
	Cost of 1 sqm				2563.77
	Say				2563.75

9.5.1.2 30 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a Door (l/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm. MATERIAL: Teak wood Styles : 4x200x10.0x3.0cm = 0.024 cum+ Top rails :1x110.5x9.5x3.0cm = 0.003cum+ Bottom rails: 1x110.5x19.7x3.0cm =0.007cum+ Lockrails: 1x110.5xl5.0x3.0cm =0.005cum+ Beading : 2x186.lxl.9x1.2cm = 0.001 cum. Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. Grand Total = 0.044 cum = 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	725.00	3190.00
2204	Carriage of timber	cum	0.044	121.88	5.36
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4259.39
	Add Water Charges @ 1%				42.59
	TOTAL				4301.98
	Add CPOH @ 15%				645.30
	Cost of 2.16 sqm				4947.28
	Cost of 1 sqm				2290.41
	Say				2290.40

9.5.2 Kiln seasoned and chemically treated hollock wood.

9.5.2.1 35 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door (l/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm. MATERIAL: Hollock wood Styles 4x200x10.0x3.5cm = 0.028cum+ Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum.+ Bottom rails 1x110.5x20.0x3.5cm = 0.008cum+ Lock rails 1x110.5x15.00x3.5cm = 0.006cum+ Beading 2xl86.1xl.9xl.2cm = 0.001cum. Total = 0.047 cum+ Add for wastage @ 10% = 0.005cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Grand Total = 0.051 cum = 51 cudm				
2505	Hollock wood in planks	10 cudm	51.00	370.00	1887.00
2204	Carriage of timber	cum	0.051	121.88	6.22
2504	Kiln seasoning of timber	cum	0.051	730.00	37.23
9999	Chemical treatment	L.S.	9.10	1.70	15.47
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				3009.95
	Add Water Charges @ 1%				30.10
	TOTAL				3040.05
	Add CPOH @ 15%				456.01
	Cost of 2.16 sqm				3496.06
	Cost of 1 sqm				1618.55
	Say				1618.55

9.5.2.2 30 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door (l/3rd glazed and 2/3rd panelled) 200xl08cm = 2.16sqm. MATERIAL: Hollock wood Styles 4x200xl0.0x3.0cm = 0.024cum+ Rails Top rails 1x110.5x9.50x3.0cm = 0.003cum.+ Lock rails 1x110.5x15.0x3.0cm = 0.005cum+ Bottom rails 1x110.5xl9.7x3.0cm = 0.007cum+ Beading 2x186.1xl.9xl.2cm = 0.001cum Total = 0.040 cum.+ Add for wastage @ 10% = 0.004cum Grand Total = 0.044 cum or = 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	370.00	1628.00
2204	Carriage of timber	cum	0.044	121.88	5.36
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
9999	Chemical treatment	L.S.	9.10	1.70	15.47
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				2744.98
	Add Water Charges @ 1%				27.45
	TOTAL				2772.43
	Add CPOH @ 15%				415.86
	Cost of 2.16 sqm				3188.29
	Cost of 1 sqm				1476.06
	Say				1476.05

9.5.3 Kiln seasoned selected planks of sheesham wood.

9.5.3.1 35 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm. Styles 4x200x10.0x3.5cm = 0.028cum+ Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum.+ Lock rails 1x110.5x15.0x3.5cm = 0.006cum+ Beading 2x86.1x1.9x1.2cm = 0.001 cum. Total = 0.047 cum.+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum or = 51 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.00	650.00	3315.00
2204	Carriage of timber	cum	0.051	121.88	6.22
2504	Kiln seasoning of timber	cum	0.051	730.00	37.23
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Carriage	L.S.	35.88	1.70	61.00
	TOTAL				4422.48
	Add Water Charges @ 1%				44.22
	TOTAL				4466.70
	Add CPOH @ 15%				670.00
	Cost of 2.16 sqm				5136.70
	Cost of 1 sqm				2378.10
	Say				2378.10

9.5.3.2 30 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm. Sheesham wood Styles 4x200x10.0x3.5cm = 0.028cum+ Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum.+ Lock rails 1x110.5x15.0x3.5cm = 0.006cum+ Beading 2x|86.1x1.9x1.2cm = 0.001 cum. Total = 0.047 cum.+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum or = 51 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2860.00
2204	Carriage of timber	cum	0.044	121.88	5.36
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	6.00	60.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0114	Beldar	day	0.76	297.00	225.72
9999	Carriage	L.S.	35.88	1.70	61.00
	TOTAL				3934.11
	Add Water Charges @ 1%				39.34
	TOTAL				3973.45
	Add CPOH @ 15%				596.02
	Cost of 2.16 sqm				4569.47
	Cost of 1 sqm				2115.50
	Say				2115.50

9.6 Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S.pressed butt hinges bright finished of required size with necessery screws, all complete as per directions of Engineer-in-Charge and panelling with panels of.

9.6.1 12 mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT-I, IS :3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220xl08cm = 2.38sqm. MATERIAL:				
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	1850.00	4403.00
9999	Carriage of shutters	L.S.	29.64	1.70	50.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	FITTINGS:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4976.03
	Add Water Charges @ 1%				49.76
	TOTAL				5025.79
	Add CPOH @ 15%				753.87
	Cost of 2.38 sqm				5779.66
	Cost of 1 sqm				2428.43
	Say				2428.45

9.6.2 12 mm thick pre-laminated particle board (decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS : 12823, Grade 1, Type - II marked .

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x108cm = 2.38sqm.				
	MATERIAL:				
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	2030.00	4831.40
9999	Carriage of shutters	L.S.	29.64	1.70	50.39
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				5404.43
	Add Water Charges @ 1%				54.04
	TOTAL				5458.47
	Add CPOH @ 15%				818.77
	Cost of 2.38 sqm				6277.24
	Cost of 1 sqm				2637.50
	Say				2637.50

9.6.3 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade - 1 medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823 Grade -1, Type II marked.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x108cm = 2.38sqm.				
	MATERIAL:				
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	1950.00	4641.00
9999	Carriage of shutters	L.S.	29.64	1.70	50.39
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				5214.03
	Add Water Charges @ 1%				52.14
	TOTAL				5266.17
	Add CPOH @ 15%				789.93
	Cost of 2.38 sqm				6056.10
	Cost of 1 sqm				2544.58
	Say				2544.60

9.7 Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.

9.7.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3rd panelling...200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66 sqm.				
	MATERIAL:				
	Panels				
	4x47.2x38.65xl.6cm = 0.0117cum+				
	4x47.2x38.65xl.6cm = 0.0117cum+				
	Add for wastage @ 10% = 0.0012cum.				
	= 0.0129 cum				
1190	Second class teak wood in planks	10 cudm	12.90	725.00	935.25
2204	Carriage of timber	cum	0.0129	121.88	1.57
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				1168.34
	Add Water Charges @ 1%				11.68
	TOTAL				1180.02
	Add CPOH @ 15%				177.00
	Cost of 0.66 sqm				1357.02
	Cost of 1 sqm				2056.09
	Say				2056.10

9.7.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door 200x 108cm = 2.16 sqm Panel area 4x45.1x 36.55cm=0.66sqm.				
	MATERIAL:				
2505	Hollock wood in planks	10 cudm	12.90	370.00	477.30
	Hollock wood				
	panels 4x45.1x36.55cm = 0.0117 cum+				
	Add for wastage @ 10% = 0.0012cum.				
	Total = 0.0129 cum = 12.90 cudm				
2204	Carriage of timber	cum	0.0129	121.88	1.57
2504	Kiln seasoning of timber	cum	0.0129	730.00	9.42
9999	Chemical treatment	L.S.	8.97	1.70	15.25
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				735.06
	Add Water Charges @ 1%				7.35
	TOTAL				742.41
	Add CPOH @ 15%				111.36
	Cost of 0.66 sqm				853.77
	Cost of 1 sqm				1293.59
	Say				1293.60

9.7.3 Ply wood 5 ply, 9 mm thick.

9.7.3.1 Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	0.80	1030.00	824.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				1058.61
	Add Water Charges @ 1%				10.59
	TOTAL				1069.20
	Add CPOH @ 15%				160.38
	Cost of 0.66 sqm				1229.58
	Cost of 1 sqm				1863.00
	Say				1863.00

9.7.3.2 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.80	840.00	672.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				906.61
	Add Water Charges @ 1%				9.07
	TOTAL				915.68
	Add CPOH @ 15%				137.35
	Cost of 0.66 sqm				1053.03
	Cost of 1 sqm				1595.50
	Say				1595.50

9.7.4 Ply wood 7 ply, 9 mm thick.

9.7.4.1 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.80	920.00	736.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				970.61
	Add Water Charges @ 1%				9.71
	TOTAL				980.32
	Add CPOH @ 15%				147.05
	Cost of 0.66 sqm				1127.37
	Cost of 1 sqm				1708.14
	Say				1708.15

9.7.5 Particle Board 12 mm thick.

9.7.5.1 Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	0.80	325.00	260.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				494.61
	Add Water Charges @ 1%				4.95
	TOTAL				499.56
	Add CPOH @ 15%				74.93
	Cost of 0.66 sqm				574.49
	Cost of 1 sqm				870.44
	Say				870.45

9.7.5.2 Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS :3097, grade I.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm. MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	0.80	500.00	400.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				634.61
	Add Water Charges @ 1%				6.35
	TOTAL				640.96
	Add CPOH @ 15%				96.14
	Cost of 0.66 sqm				737.10
	Cost of 1 sqm				1116.82
	Say				1116.80

9.7.5.3 Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II, IS : 12823 marked.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm. MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	740.00	592.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				826.61
	Add Water Charges @ 1%				8.27
	TOTAL				834.88
	Add CPOH @ 15%				125.23
	Cost of 0.66 sqm				960.11
	Cost of 1 sqm				1454.71
	Say				1454.70

9.7.5.4 Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS :12823 marked.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7480	Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	780.00	624.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				858.61
	Add Water Charges @ 1%				8.59
	TOTAL				867.20
	Add CPOH @ 15%				130.08
	Cost of 0.66 sqm				997.28
	Cost of 1 sqm				1511.03
	Say				1511.05

9.7.6 Coir Veneer Board (conforming to IS 14842).

9.7.6.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7555	Coir veneered board 12 mm thick	sqm	0.80	650.00	520.00
9999	Carriage	L.S.	1.82	1.70	3.09
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				754.61
	Add Water Charges @ 1%				7.55
	TOTAL				762.16
	Add CPOH @ 15%				114.32
	Cost of 0.66 sqm				876.48
	Cost of 1 sqm				1328.00
	Say				1328.00

9.7.7 Float glass panes.

9.7.7.1 4 mm thick glass pane.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm.				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.80	330.00	264.00
9999	Carriage	L.S.	1.82	1.70	3.09
0156	Carpenter (average)	day	0.57	377.00	214.89
0119	Glazier	day	0.15	361.00	54.15
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	25.47	1.70	43.30
	TOTAL				623.98
	Add Water Charges @ 1%				6.24
	TOTAL				630.22
	Add CPOH @ 15%				94.53
	Cost of 0.66 sqm				724.75
	Cost of 1 sqm				1098.11
	Say				1098.10

9.7.7.2 5.5 mm thick glass pane.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm Panel area 4x 45.1x36.55cm=0.67sqm.				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	0.80	500.00	400.00
9999	Carriage	L.S.	1.82	1.70	3.09
0156	Carpenter (average)	day	0.57	377.00	214.89
0119	Glazier	day	0.15	361.00	54.15
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	25.47	1.70	43.30
	TOTAL				759.98
	Add Water Charges @ 1%				7.60
	TOTAL				767.58
	Add CPOH @ 15%				115.14
	Cost of 0.67 sqm				882.72
	Cost of 1 sqm				1317.49
	Say				1317.50

9.7.8 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3 rd panelling 200x108 cm = 2.16 sqm Panel area 4x45.1x36.55 cm=0.66 sqm.				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	0.80	830.00	664.00
9999	Carriage	L.S.	1.82	1.70	3.09
0112	Carpenter 2nd class	day	0.57	361.00	205.77
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				880.37
	Add Water Charges @ 1%				8.80
	TOTAL				889.17
	Add CPOH @ 15%				133.38
	Cost of 0.66 sqm				1022.55
	Cost of 1 sqm				1549.32
	Say				1549.30

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.

9.9.1 Second class teak wood.

9.9.1.1 35 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of a door (glazed) 200x108cm = 2.16 sqm.				
	Teak wood (2nd class)				
	Styles : 4x200x9.5x3.5cm = 0.027cum				
	Rails:				
	Top & intermediate rails				
	2x110.5x9.5x3.5cm = 0.008cum				
	Lock and bottom rails				
	2x110.5xl9.7x3.5cm = 0.015cum				
	Beadings:				
	2x186.1x1.9x1.2cm = 0.001cum				
	4x 171.70x 1.9x 1.2cm = 0.002cum.				
	Total = 0.053 cum.				
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.058 cum = 58 cudm				
1190	Second class teak wood in planks	10 cudm	58.00	725.00	4205.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.058	121.88	7.07
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				5788.93
	Add Water Charges @ 1%				57.89
	TOTAL				5846.82
	Add CPOH @ 15%				877.02
	Cost of 2.16 sqm				6723.84
	Cost of 1 sqm				3112.89
	Say				3112.90

9.9.1.2 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of a door (glazed) 200x108cm = 2.16 sqm. MATERIAL: Teak wood Styles : 4x200x9.5x3.0cm = 0.023cum+ Rails: Top & intermediate rails 2x110.5x9.5x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.7x3.0cm = 0.013cum+ Beadings- 2x186.1xl.9xl.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 cum = 50 cudm				
1190	Second class teak wood in planks	10 cudm	50.00	725.00	3625.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.05	121.88	6.09
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				5207.95
	Add Water Charges @ 1%				52.08
	TOTAL				5260.03
	Add CPOH @ 15%				789.00
	Cost of 2.16 sqm				6049.03
	Cost of 1 sqm				2800.48
	Say				2800.50

9.9.2 Kiln seasoned and chemically treated hollock wood.

9.9.2.1 35 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of a door (glazed) 200x108cm = 2.16 sqm. MATERIAL: (i) Hollock wood Styles : 4x200x9.5x3.5cm = 0.027 cum+ Rails Top & intermediate rails 2x110.5x9.5x3.50cm = 0.008cum+ Lock and bottom rails 2x110.5x19.7x3.50cm = 0.015cum+ Beadings- 2xl86.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.053 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.058 cum or = 58 cudm				
2505	Hollock wood in planks	10 cudm	58.00	370.00	2146.00
2504	Kiln seasoning of timber	cum	0.058	730.00	42.34
9999	Chemical treatment	L.S.	9.10	1.70	15.47
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.058	121.88	7.07
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				3787.74
	Add Water Charges @ 1%				37.88
	TOTAL				3825.62
	Add CPOH @ 15%				573.84
	Cost of 2.16 sqm				4399.46
	Cost of 1 sqm				2036.79
	Say				2036.80

9.9.2.2 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of a door (glazed) 200x108cm = 2.16 sqm. MATERIAL: (i) Hollock wood Styles : 4x200x9.50x3.0cm = 0.023cum+ Rails Top & intermediate rails 2x110.5x9.50x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.70x3.0cm = 0.013cum+ Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 = 50 cudm				
2505	Hollock wood in planks	10 cudm	50.00	370.00	1850.00
2504	Kiln seasoning of timber	cum	0.05	730.00	36.50
9999	Chemical treatment	L.S.	9.10	1.70	15.47
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.05	121.88	6.09
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				3484.92
	Add Water Charges @ 1%				34.85
	TOTAL				3519.77
	Add CPOH @ 15%				527.97
	Cost of 2.16 sqm				4047.74
	Cost of 1 sqm				1873.95
	Say				1873.95

9.9.3 Kiln seasoned selected planks of sheesham wood.

9.9.3.1 35 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of a door (glazed) 200 x 108 cm = 2.16 sqm. MATERIAL : (i) Hollock wood Styles : 4 x 200 x 9.53 x 3.5cm = 0.27 cum + Rails Top & intermediate rails 2 x 110.5 x 9.5x 3.50cm = 0.008cum + Lock and bottom rails 2x110.5 x 19.7 x 3.50cm = 0.015cum +				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	58.00	650.00	3770.00
2504	Kiln seasoning of timber	cum	0.058	730.00	42.34
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.058	121.88	7.07
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				5396.27
	Add Water Charges @ 1%				53.96
	TOTAL				5450.23
	Add CPOH @ 15%				817.53
	Cost of 2.16 sqm				6267.76
	Cost of 1 sqm				2901.74
	Say				2901.75

9.9.3.2 30 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a cup-board (half glazed and half panelled) 200x108cm = 2.16 sqm. (i) Sheesham wood Styles : 4x200x9.50x3.0cm = 0.023cum+ Rails Top & intermediate rails 2x110.5x9.50x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.70x3.0cm = 0.013cum+ Beadings 2x186.1x1.9x1.2cm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 = 50 cudm Panels : 2 x 48 x 41 x 1.6cm = 0.006cm + Sash bars 2 x 114 x 3.8 x 2.5cm = 0.003 cum + 6 x 48 x 3.8 x 2.5cm = 0.003 cum + Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	50.00	650.00	3250.00
2504	Kiln seasoning of timber	cum	0.05	730.00	36.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.05	121.88	6.09
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				4869.45
	Add Water Charges @ 1%				48.69
	TOTAL				4918.14
	Add CPOH @ 15%				737.72
	Cost of 2.16 sqm				5655.86
	Cost of 1 sqm				2618.45
	Say				2618.45

9.10 Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge.

9.10.1 30 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x108cm = 2.38sqm. MATERIAL:				
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	2.38	1650.00	3927.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of shutters	L.S.	29.64	1.70	50.39
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4500.03
	Add Water Charges @ 1%				45.00
	TOTAL				4545.03
	Add CPOH @ 15%				681.75
	Cost of 2.38 sqm				5226.78
	Cost of 1 sqm				2196.13
	Say				2196.15

9.11 Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

9.11.1 5.5 mm thick instead of 4 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.00	500.00	500.00
	Deduct				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	330.00	-330.00
	TOTAL				170.00
	Add Water Charges @ 1%				1.70
	TOTAL				171.70
	Add CPOH @ 15%				25.76
	Cost of 1 sqm				197.46
	Say				197.45

9.12 Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	1.00	335.00	335.00
	Deduct				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	330.00	-330.00
	TOTAL				5.00
	Add Water Charges @ 1%				0.05
	TOTAL				5.05
	Add CPOH @ 15%				0.76
	Cost of 1 sqm				5.81
	Say				5.80

9.13 Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Deduct				
7451	Glass sheet (Pin headed) 4 mm thick	sqm	-1.00	300.00	-300.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.00	330.00	330.00
	TOTAL				30.00
	Add Water Charges @ 1%				0.30
	TOTAL				30.30
	Add CPOH @ 15%				4.54
	Cost of 1 sqm				34.84
	Say				34.85

9.14 Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter of a door 200x108cm = 2.16 sqm.				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked 100x60x2.5 mm	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	Deduct				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	-6.00	85.00	-51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	-2.00	50.00	-10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	-48.00	50.00	-24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	-8.00	30.00	-2.40
	TOTAL				186.60
	Add Water Charges @ 1%				1.87
	TOTAL				188.47
	Add CPOH @ 15%				28.27
	Cost of 2.16 sqm				216.74
	Cost of 1 sqm				100.34
	Say				100.35

9.15 Deduct for not providing hinges in doors,windows and clerestory window shutters with.

9.15.1 Stainless steel butt hinges with stainless steel screws.

9.15.1.1 For 2nd class teak wood and other class of wood shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for fittings for shutter of size 200x108cm = 2.16 sqm.				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	TOTAL				274.00
	Add Water Charges @ 1%				2.74
	TOTAL				276.74
	Add CPOH @ 15%				41.51
	Cost of 2.16 sqm				318.25
	Cost of 1 sqm				147.34
	Say				147.35

9.15.2 ISI marked M.S. pressed butt hinges bright finished of required size with necessery screws.

9.15.2.1 For 2nd class teak wood and other class of wood shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for hinges with screws for shutters of size 200x108cm = 2.16 sqm.				
	MATERIAL:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	TOTAL				87.40
	Add Water Charges @ 1%				0.87
	TOTAL				88.27
	Add CPOH @ 15%				13.24
	Cost of 2.16 sqm				101.51
	Cost of 1 sqm				47.00
	Say				47.00

9.16 Providing and fixing 25 mm thick shutters for cup board etc.

9.16.1 Panelled or panelled & glazed shutters.

9.16.1.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a cup-board (half glazed and half paneled) 200x108cm = 2.16 sqm				
	MATERIAL:				
	Styles-4x200x8.0x2.5cm = 0.016 cum+				
	Rails-				
	Top rail-1x1 10.5x8.0x2.5cm = 0.0022cum+				
	Lock and bottom rail-2x110.5x8.0x2.5cm = 0.0044 cum.+				
	Panels-2x48x41 x 1.6cm = 0.006cum+				
	Sash bars-2x114x3.8x2.5cm = 0.003cum+				
	6x48x3.8x2.5cm = 0.003 cum+				
	Beading-16x92x 1.4x 1.2cm = 0.002cum				
	Total = 0.0366				
	Add for wastage @ 10% = 0.0037 cum.				
	Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.00	725.00	2900.00
2204	Carriage of timber	cum	0.04	121.88	4.88
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.99	330.00	326.70
	Fittings				
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 nos	6.00	390.00	234.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0586	Chromium plated Brass screws 40 mm	100 Nos	48.00	200.00	96.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.40	393.00	943.20
0119	Glazier	day	0.18	361.00	64.98
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				4867.18
	Add Water Charges @ 1%				48.67
	TOTAL				4915.85
	Add CPOH @ 15%				737.38
	Cost of 2.16 sqm				5653.23
	Cost of 1 sqm				2617.24
	Say				2617.25

9.16.1.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a cup board (half glazed and panelled) 200x108=2.16sqm. MATERIAL: Styles-4x200x8.0x2.25cm =0.016 cum + Rails- Top rail 1 x 1 10.5x8.0x2.5 cm =0.0022 cum + lock and bottom rail-2x10.5x8.0x2.5 0.0044 cum + Panels : 2 x 48 X 41 x 1.6 cm=0.006 cm + sash bars 2 x 114 x 3.8 x 2.5cm =0.003 cum + 6 x 48 x 3.8 x 2.5 cm = 0.003 cum + Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum Total=0.0336 Add for wastage @ 10% =0.0037 cum Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.00	725.00	2900.00
2204	Carriage of timber	cum	0.04	121.88	4.88
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.99	330.00	326.70
	Fittings:				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	40.00	160.00
0586	Chromium plated Brass screws 40 mm	100 Nos	114.00	200.00	228.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.40	393.00	943.20
0119	Glazier	day	0.18	361.00	64.98
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				4925.18
	Add Water Charges @ 1%				49.25
	TOTAL				4974.43
	Add CPOH @ 15%				746.16
	Cost of 2.16 sqm				5720.59
	Cost of 1 sqm				2648.42
	Say				2648.40

9.16.2 Glazed shutters.

9.16.2.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutter of cup-board 200x108cm = 2.16 sqm. MATERIAL: (i) Teak wood second class Styles : 4x200x9.5x2.5 cm = 0.019 cum Rails Top & intermediate rails 2x110.5x9.5x2.5 cm = 0.006 cum Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings- 2x186.1x1.9xl.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum. Total = 0.039 cum. Add for wastage @ 10% = 0.004 cum. Grand Total = 0.043 cum. 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	725.00	3117.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0694	Anodised Aluminium butt hinges 75x45 x3.2 mm	10 nos	6.00	390.00	234.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	48.00	35.00	16.80
2204	Carriage of timber	cum	0.043	121.88	5.24
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				4863.00
	Add Water Charges @ 1%				48.63
	TOTAL				4911.63
	Add CPOH @ 15%				736.74
	Cost of 2.16 sqm				5648.37
	Cost of 1 sqm				2614.99
	Say				2615.00

9.16.2.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a cup board (half Glazed and half panelled) 200x 108cm=2.16 sqm. MATERIAL: Teak wood second class styles 4 x 200 x 9.5 x 2.5cm = 0.019 cum Rails - Top & Internmediate rail 2x 110.5 x 9.5 x				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2.5cm=0.006 cum lock and bottom rail - 2 x 10.5 x19.7 x 2.5 cm=0.0011 cum Total = 0.039 cum Add for wastage @ 10 % =0.0004cum Grand Total = 0.0403 cum or 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	725.00	3117.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	330.00	419.10
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	40.00	160.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	114.00	35.00	39.90
2204	Carriage of timber	cum	0.043	121.88	5.24
	LABOUR:				
0156	Carpenter (average)	day	1.83	377.00	689.91
0119	Glazier	day	0.23	361.00	83.03
0114	Beldar	day	0.77	297.00	228.69
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				4812.10
	Add Water Charges @ 1%				48.12
	TOTAL				4860.22
	Add CPOH @ 15%				729.03
	Cost of 2.16 sqm				5589.25
	Cost of 1 sqm				2587.62
	Say				2587.60

9.17 Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).

9.17.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 350x200cm = 7sqm. MATERIAL: 12mm thick particle board = 7.00sqm.+ Add wastage @ 5% = 0.35 sqm. Total = 7.35 sqm				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	7.35	325.00	2388.75
9999	Carrriage of particle board	L.S.	13.52	1.70	22.98
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				3079.38
	Add Water Charges @ 1%				30.79
	TOTAL				3110.17
	Add CPOH @ 15%				466.53
	Cost of 7 sqm				3576.70
	Cost of 1 sqm				510.96
	Say				510.95

9.17.2 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 350x200cm = 7sqm.				
	MATERIAL:				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm				
	Total = 7.35 sqm				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	7.35	420.00	3087.00
9999	Carrriage of particle board	L.S.	19.76	1.70	33.59
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				3788.24
	Add Water Charges @ 1%				37.88
	TOTAL				3826.12
	Add CPOH @ 15%				573.92
	Cost of 7 sqm				4400.04
	Cost of 1 sqm				628.58
	Say				628.60

9.18 Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).

9.18.1 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4 nos. 75x20cm shelves = 0.60 sqm.				
	MATERIAL:				
	18mm thick particle board = 4x75x20cm = 0.60sqm.+				
	Wastage @ 5% = 0.03sqm:				
	Total = 0.63 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	0.63	850.00	535.50
9999	Carriage of board	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	361.00	39.71
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries, painting edges & screws	L.S.	7.80	1.70	13.26
	TOTAL				607.84
	Add Water Charges @ 1%				6.08
	TOTAL				613.92
	Add CPOH @ 15%				92.09
	Cost of 0.6 sqm				706.01
	Cost of 1 sqm				1176.68
	Say				1176.70

9.18.2 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4 nos. 75x20cm shelves = 0.60 sqm.				
	MATERIAL:				
	25mm thick particle board = 4x75x20cm = 0.60sqm.+				
	Wastage @ 5% = 0.03sqm				
	Total = 0.63 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	0.63	930.00	585.90
9999	Carriage of board	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	361.00	39.71
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries, painting edges & screws	L.S.	7.80	1.70	13.26
	TOTAL				659.78
	Add Water Charges @ 1%				6.60
	TOTAL				666.38
	Add CPOH @ 15%				99.96
	Cost of 0.6 sqm				766.34
	Cost of 1 sqm				1277.23
	Say				1277.25

9.20 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2.20	1700.00	3740.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				4401.09
	Add Water Charges @ 1%				44.01
	TOTAL				4445.10
	Add CPOH @ 15%				666.76
	Cost of 2.2 sqm				5111.86
	Cost of 1 sqm				2323.57
	Say				2323.55

9.20.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2.20	1550.00	3410.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				4071.09
	Add Water Charges @ 1%				40.71
	TOTAL				4111.80
	Add CPOH @ 15%				616.77
	Cost of 2.2 sqm				4728.57
	Cost of 1 sqm				2149.35
	Say				2149.35

9.20.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	2.20	1400.00	3080.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
0608	Fittings for a door 2.2x1.00m = 2.20 sqm				
	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.40	40.00	176.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.00	35.00	43.75
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				3720.84
	Add Water Charges @ 1%				37.21
	TOTAL				3758.05
	Add CPOH @ 15%				563.71
	Cost of 2.2 sqm				4321.76
	Cost of 1 sqm				1964.44
	Say				1964.45

9.21 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

9.21.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	2.20	1150.00	2530.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
8220	Fittings for a door 2.2x1.0m = 2.20 sqm Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				3191.09
	Add Water Charges @ 1%				31.91
	TOTAL				3223.00
	Add CPOH @ 15%				483.45
	Cost of 2.2 sqm				3706.45
	Cost of 1 sqm				1684.75
	Say				1684.75

9.21.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	2.20	1000.00	2200.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
8220	Fittings for a door 2.2x1.0m = 2.20 sqm Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				2861.09
	Add Water Charges @ 1%				28.61
	TOTAL				2889.70
	Add CPOH @ 15%				433.46
	Cost of 2.2 sqm				3323.16
	Cost of 1 sqm				1510.53
	Say				1510.55

9.21.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.2 sqm.				
	MATERIAL:				
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	2.20	900.00	1980.00
9999	Carriage of door	L.S.	29.64	1.70	50.39
	Fittings for a door 2.2x1.0m = 2.20 sqm				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.40	40.00	176.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.00	35.00	43.75
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				2620.84
	Add Water Charges @ 1%				26.21
	TOTAL				2647.05
	Add CPOH @ 15%				397.06
	Cost of 2.2 sqm				3044.11
	Cost of 1 sqm				1383.69
	Say				1383.70

9.22 Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to I.S. 2202 (part I).

9.22.1 On one side only.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	1.00	340.00	340.00
	TOTAL				340.00
	Add Water Charges @ 1%				3.40
	TOTAL				343.40
	Add CPOH @ 15%				51.51
	Cost of 1 sqm				394.91
	Say				394.90

9.23 Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm of door area.				
0752	Block board construction flush door lipping	sqm of door area	1.00	300.00	300.00
	TOTAL				300.00
	Add Water Charges @ 1%				3.00
	TOTAL				303.00
	Add CPOH @ 15%				45.45
	Cost of 1 sqm				348.45
	Say				348.45

9.24 Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured).

9.24.1 Rectangular or square.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm of door area.				
0753	Square vision panel in Block board construction flush door	sqm of door area	1.00	115.00	115.00
	TOTAL				115.00
	Add Water Charges @ 1%				1.15
	TOTAL				116.15
	Add CPOH @ 15%				17.42
	Cost of 1 sqm				133.57
	Say				133.55

9.24.2 Circular.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm of door area.				
0754	Circular vision panel in Block board construction flush door	sqm of door area	1.00	180.00	180.00
	TOTAL				180.00
	Add Water Charges @ 1%				1.80
	TOTAL				181.80
	Add CPOH @ 15%				27.27
	Cost of 1 sqm				209.07
	Say				209.05

9.25 Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).

9.25.1 Decorative type door.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm of door area.				
0755	Decorative type louvers in Block board construction flush door	sqm of door area	1.00	310.00	310.00
	TOTAL				310.00
	Add Water Charges @ 1%				3.10
	TOTAL				313.10
	Add CPOH @ 15%				46.96
	Cost of 1 sqm				360.06
	Say				360.05

9.26 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm of door area.				
0757	Rebate cutting in block board construction flush door	sqm of door area	1.00	85.00	85.00
	TOTAL				85.00
	Add Water Charges @ 1%				0.85
	TOTAL				85.85
	Add CPOH @ 15%				12.88
	Cost of 1 sqm				98.73
	Say				98.75

9.27 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws.

9.27.1 35 mm thick shutters.

9.27.1.1 With ISI marked M.S. pressed butt hinges bright finished of required size.

9.27.1.1.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16 sqm. MATERIAL: Teak wood (2nd class) Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x 19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.40	725.00	3726.50
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5419.03
	Add Water Charges @ 1%				54.19
	TOTAL				5473.22
	Add CPOH @ 15%				820.98
	Cost of 2.16 sqm				6294.20
	Cost of 1 sqm				2913.98
	Say				2914.00

9.27.1.1.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. (i) Hollock wood. Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5xl9.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	370.00	1901.80
2204	Carriage of timber	cum	0.0514	121.88	6.26
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
9999	Chemical Treatment Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	L.S.	8.97	1.70	15.25
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				3647.10
	Add Water Charges @ 1%				36.47
	TOTAL				3683.57
	Add CPOH @ 15%				552.54
	Cost of 2.16 sqm				4236.11
	Cost of 1 sqm				1961.16
	Say				1961.15

9.27.1.1.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham Wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3341.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5071.05
	Add Water Charges @ 1%				50.71
	TOTAL				5121.76
	Add CPOH @ 15%				768.26
	Cost of 2.16 sqm				5890.02
	Cost of 1 sqm				2726.86
	Say				2726.85

9.27.1.2 With ISI marked stainless steel butt hinges of required size.

9.27.1.2.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Second class Teak wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	10 cudm	51.40	725.00	3726.50
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5605.63
	Add Water Charges @ 1%				56.06
	TOTAL				5661.69
	Add CPOH @ 15%				849.25
	Cost of 2.16 sqm				6510.94
	Cost of 1 sqm				3014.32
	Say				3014.30

9.27.1.2.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Hollock wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x1 10.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	370.00	1901.80
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
9999	Chemical treatment Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	L.S.	8.97	1.70	15.25
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				3833.70
	Add Water Charges @ 1%				38.34
	TOTAL				3872.04
	Add CPOH @ 15%				580.81
	Cost of 2.16 sqm				4452.85
	Cost of 1 sqm				2061.50
	Say				2061.50

9.27.1.2.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3341.00
2504	Kiln seasoning of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.0514	730.00	37.52
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5257.65
	Add Water Charges @ 1%				52.58
	TOTAL				5310.23
	Add CPOH @ 15%				796.53
	Cost of 2.16 sqm				6106.76
	Cost of 1 sqm				2827.20
	Say				2827.20

9.27.2 30 mm thick shutters.

9.27.2.1 With ISI marked M.S. pressed butt hinges bright finished of required size.

9.27.2.1.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Teak wood (2nd class) Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5xl9.7x3cm = 0.013 cum+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total = 0.44 cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	725.00	3190.00
2204	Carriage of timber	scum	0.044	121.88	5.36
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4789.42
	Add Water Charges @ 1%				47.89
	TOTAL				4837.31
	Add CPOH @ 15%				725.60
	Cost of 2.16 sqm				5562.91
	Cost of 1 sqm				2575.42
	Say				2575.40

9.27.2.1.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Hollock wood Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total = 0.44 cum. Say 44				
2505	Hollock wood in planks	10 cudm	44.00	370.00	1628.00
2204	Carriage of timber	cum	0.044	121.88	5.36
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
9999	Chemical treatment Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	L.S.	9.10	1.70	15.47
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				3275.01
	Add Water Charges @ 1%				32.75
	TOTAL				3307.76
	Add CPOH @ 15%				496.16
	Cost of 2.16 sqm				3803.92
	Cost of 1 sqm				1761.07
	Say				1761.05

9.27.2.1.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.44 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
2204	Carriage of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.044	121.88	5.36
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4491.54
	Add Water Charges @ 1%				44.92
	TOTAL				4536.46
	Add CPOH @ 15%				680.47
	Cost of 2.16 sqm				5216.93
	Cost of 1 sqm				2415.25
	Say				2415.25

9.27.2.2 With ISI marked stainless steel butt hinges of required size.

9.27.2.2.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Teak wood (2nd class) Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5xl9.7x3cm = 0.013 cum+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total = 0.044 cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	725.00	3190.00
2204	Carriage of timber	cum	0.044	121.88	5.36
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4976.02
	Add Water Charges @ 1%				49.76
	TOTAL				5025.78
	Add CPOH @ 15%				753.87
	Cost of 2.16 sqm				5779.65
	Cost of 1 sqm				2675.76
	Say				2675.75

9.27.2.2.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Hollock wood Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total= 0.044 cum. Say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	370.00	1628.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
9999	Chemical treatment	L.S.	8.97	1.70	15.25
2204	Carriage of timber	cum	0.044	121.88	5.36
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				3461.39
	Add Water Charges @ 1%				34.61
	TOTAL				3496.00
	Add CPOH @ 15%				524.40
	Cost of 2.16 sqm				4020.40
	Cost of 1 sqm				1861.30
	Say				1861.30

9.27.2.2.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
2204	Carriage of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.044	121.88	5.36
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	250.00	352.50
7029	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8220	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4678.14
	Add Water Charges @ 1%				46.78
	TOTAL				4724.92
	Add CPOH @ 15%				708.74
	Cost of 2.16 sqm				5433.66
	Cost of 1 sqm				2515.58
	Say				2515.60

9.31 Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568 for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, as per directions of Engineer-in-charge.

9.31.1 35 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x 108cm = 2.38sqm.				
	MATERIAL:				
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.38	1630.00	3879.40
9999	Carriage of door	L.S.	29.64	1.70	50.39
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4452.43
	Add Water Charges @ 1%				44.52
	TOTAL				4496.95
	Add CPOH @ 15%				674.54
	Cost of 2.38 sqm				5171.49
	Cost of 1 sqm				2172.90
	Say				2172.90

9.31.2 30 mm thick shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x 108cm = 2.38sqm.				
	MATERIAL:				
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles &rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.38	1450.00	3451.00
9999	Carriage of shutters	L.S.	29.64	1.70	50.39
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.52	377.00	196.04
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries	L.S.	35.88	1.70	61.00
	TOTAL				4024.03
	Add Water Charges @ 1%				40.24
	TOTAL				4064.27
	Add CPOH @ 15%				609.64
	Cost of 2.38 sqm				4673.91
	Cost of 1 sqm				1963.83
	Say				1963.85

9.32 Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100nos.				
	MATERIAL:				
	Teak wood (2nd class) 100x(50x50x50)mm = 0.0125cum				
	Add wastage @ 10% = 0.0013 cum.				
	Total =0.0138 cum.				
	Say 14 cudm				
1189	Second class teak wood in scantling	10 cudm	14.00	660.00	924.00
2204	Carriage of timber	cum	0.014	121.88	1.71
	Cement mortar 1:3(1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.002	3844.80	7.69
	LABOUR:				
0112	Carpenter 2nd class	day	0.75	361.00	270.75
0124	Mason (brick layer) 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	0.75	297.00	222.75
	TOTAL				1697.65
	Add Water Charges @ 1%				16.98
	TOTAL				1714.63
	Add CPOH @ 15%				257.19
	Cost of 100 nos				1971.82
	Cost of each				19.72
	Say				19.70

9.33 Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / C.C / R.C.C. and making good etc. complete.

9.33.1 25 mm long.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00	10.00	100.00
9999	Labour for drilling holes and making good etc.	L.S.	20.80	1.70	35.36
	TOTAL				135.36
	Add Water Charges @ 1%				1.35
	TOTAL				136.71
	Add CPOH @ 15%				20.51
	Cost of 10 nos				157.22
	Cost of each				15.72
	Say				15.70

9.33.2 32 mm long.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	10.00	11.00	110.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.70	44.20
	TOTAL				154.20
	Add Water Charges @ 1%				1.54
	TOTAL				155.74
	Add CPOH @ 15%				23.36
	Cost of 10 nos				179.10
	Cost of each				17.91
	Say				17.90

9.33.3 40 mm long.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	10.00	14.00	140.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.70	44.20
	TOTAL				184.20
	Add Water Charges @ 1%				1.84
	TOTAL				186.04
	Add CPOH @ 15%				27.91
	Cost of 10 nos				213.95
	Cost of each				21.40
	Say				21.40

9.33.4 50 mm long.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	10.00	15.00	150.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.70	44.20
	TOTAL				194.20
	Add Water Charges @ 1%				1.94
	TOTAL				196.14
	Add CPOH @ 15%				29.42
	Cost of 10 nos				225.56
	Cost of each				22.56
	Say				22.55

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.

9.34.1 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Teak wood (2nd class) 10x0.04m = 0.40 cum Add wastage @ 10% = 0.04 cum. Total = 0.44 cum. Say 440 cudm				
1190	Second class teak wood in planks	10 cudm	440.00	725.00	31900.00
1231	Extra for selected planks of second class teakwood	10 cudm	440.00	140.00	6160.00
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
2204	Carriage of timber	cum	0.44	121.88	53.63
	LABOUR:				
	For planning and fixing				
0111	Carpenter 1 st class	day	2.15	393.00	844.95
0114	Beldar	day	1.62	297.00	481.14
9999	Sundries & screws etc.	L.S.	53.82	1.70	91.49
	TOTAL				40922.21
	Add Water Charges @ 1% except on A i.e on (40,922.21 - 1,391.00 =) 39,531.21				395.31
	TOTAL				41317.52
	Add CPOH @ 15% except on A i.e on (41,317.52- 1,391.00 =) 39,926.52				5988.98
	Cost of 10 sqm				47306.50
	Cost of 1 sqm				4730.65
	Say				4730.65

9.34.2 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Teak wood 2nd class 10x0.025 = 0.25cum+				
	Add wastage @ 10% = 0.025 cum.				
	Total = 0.275 cum. Say 275 cudm				
1190	Second class teak wood in planks	10 cudm	275.00	725.00	19937.50
1231	Extra for selected planks of second class teakwood	10 cudm	275.00	140.00	3850.00
2204	Carriage of timber	cum	0.275	121.88	33.52
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	LABOUR:				
0111	Carpenter 1 st class	day	2.15	393.00	844.95
0114	Beldar	day	1.62	297.00	481.14
9999	Sundries & screws etc.	L.S.	53.82	1.70	91.49
	TOTAL				26629.60
	Add Water Charges @ 1% except on A i.e on (26,629.60 - 1,391.00 =) 25,238.60				252.39
	TOTAL				26881.99
	Add CPOH @ 15% except on A i.e on (26,881.99- 1,391.00 =) 25,490.99				3823.65
	Cost of 10 sqm				30705.64
	Cost of 1 sqm				3070.56
	Say				3070.5

9.34.3 20 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Teak wood (2nd class) 10x0.02m = 0.20cum				
	Add wastage @ 10% = 0.02 cum.				
	Total = 0.22 cum. Say 220 cudm				
1190	Second class teak wood in planks	10 cudm	220.00	725.00	15950.00
1231	Extra for selected planks of second class teakwood	10 cudm	220.00	140.00	3080.00
2204	Carriage of timber	cum	0.22	121.88	26.81
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	1.08	393.00	424.44
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.08	297.00	320.76
9999	Sundries & screws etc.	L.S.	53.82	1.70	91.49
	TOTAL				21573.30
	Add Water Charges @ 1% except on A i.e on (21,573.30 - 1,391.00 =) 20,182.30				201.82
	TOTAL				21775.12
	Add CPOH @ 15% except on A i.e on (21,775.12 - 1,391.00 =) 20,384.12				3057.62
	Cost of 10 sqm				24832.74
	Cost of 1 sqm				2483.27
	Say				2483.25

9.34.4 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Wood:				
	Second class teak wood 10x0.012 = 0.12 cum Add wastage @ 10% = 0.012 cum Total = 0.132 cum. Say 132 cudm				
1190	Second class teak wood in planks	10 cudm	132.00	725.00	9570.00
1231	Extra for selected planks of second class teakwood	10 cudm	132.00	140.00	1848.00
2204	Carriage of timber	cum	0.132	121.88	16.09
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A
	LABOUR:				
0111	Carpenter 1 st class	day	1.08	393.00	424.44
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.08	297.00	320.76
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
9999	Sundries & screws etc.	L.S.	53.82	1.70	91.49
	TOTAL				13950.58
	Add Water Charges @ 1% except on A i.e on (13,950.58 - 1,391.00 =) 12,559.58				125.60
	TOTAL				14076.18
	Add CPOH @ 15% except on A i.e on (14,076.18 - 1,391.00 =) 12,685.18				1902.78
	Cost of 10 sqm				15978.96
	Cost of 1 sqm				1597.90
	Say				1597.90

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete.

9.35.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: Particle board (three layer medium density) 12mm thick = 10 sqm.+ Add wastage @ 10% = 1 sqm. Total = 11 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	11.00	740.00	8140.00
9999	Carriage of particle board	L.S.	13.52	1.70	22.98
9999	Sundries & screws etc.	L.S.	26.91	1.70	45.75
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				9953.02
	Add Water Charges @ 1% except on A i.e on (9,953.02 - 307.50 =) 9,645.52				96.46
	TOTAL				10049.48
	Add CPOH @ 15% except on A i.e on (10,049.48 - 307.50 =) 9,741.98				1461.30
	Cost of 10 sqm				11510.78
	Cost of 1 sqm				1151.08
	Say				1151.10

9.35.2 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: Particle board (three layer medium density) 18 mm thick = 10 sqm.+ Add wastage @ 10% = 1 sqm. Total = 11 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	11.00	850.00	9350.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of particle board	L.S.	13.52	1.70	22.98
9999	Sundries & screws etc.	L.S.	26.91	1.70	45.75
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				11163.02
	Add Water Charges @ 1% except on A i.e on (11,163.02 - 307.50 =) 10,855.52				108.56
	TOTAL				11271.58
	Add CPOH @ 15% except on A i.e on (11,271.58 - 307.50 =) 10,964.08				1644.61
	Cost of 10 sqm				12916.19
	Cost of 1 sqm				1291.62
	Say				1291.60

9.35.3 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Particle board (three layer medium density) 25 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	11.00	930.00	10230.00
9999	Carriage of particle board	L.S.	13.52	1.70	22.98
9999	Sundries & screws etc.	L.S.	26.91	1.70	45.75
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				12043.02
	Add Water Charges @ 1% except on A i.e on (12,043.02 - 307.50 =) 11,735.52				117.36
	TOTAL				12160.38
	Add CPOH @ 15% except on A i.e on (12,160.38 - 307.50 =) 11,852.88				1777.93
	Cost of 10 sqm				13938.31
	Cost of 1 sqm				1393.83
	Say				1393.85

9.36 Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.

9.36.1 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 no. battens of size 500cmx50mmx25mm (31.25 cudm).				
	MATERIAL:				
	Hollock wood-				
	5x5.00x0.50x0.025 = 0.03125 cum				
	Add wastage @ 5% = 0.00156 cum				
	Total = 0.03281 cum. Say 33 cudm				
2505	Hollock wood in planks	10 cudm	33.00	370.00	1221.00
2204	Carriage of timber	cum	0.033	121.88	4.02
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	6.76	1.70	11.49
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	3.75	30.75	115.31 A
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
9999	Labour for drilling holes steel tape sundries	L.S.	71.50	1.70	121.55
	TOTAL				2490.62
	Add Water Charges @ 1% except on A i.e on (2,490.62 - 115.31 =) 2,375.31				23.75
	TOTAL				2514.37
	Add CPOH @ 15% except on A i.e on (2,514.37 - 115.31 =) 2,399.06				359.86
	Cost of 0.03125 cum				2874.23
	Cost of 1 cum				91975.36
	Say				91975.40

9.37 Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with.

9.37.1 Decorative veneer facings of approved manufacture.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Teak ply wood = 10sqm.+				
	Add for wastage @ 20% = 2 sqm.				
	Total = 12 sqm				
0759	Decorative plywood 4 mm	sqm	12.00	420.00	5040.00
9999	Carriage of ply wood	L.S.	5.46	1.70	9.28
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	393.00	1493.40
0114	Beldar	day	4.60	297.00	1366.20
0130	Mistry	day	0.60	393.00	235.80
9999	20mm nails without head for fixing ply	L.S.	53.82	1.70	91.49
	Painting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	TOTAL				9627.17
	Add Water Charges @ 1% except on A i.e on (9,627.17 - 1,391.00 =) 8,236.17				82.36
	TOTAL				9709.53
	Add CPOH @ 15% except on A i.e on (9,709.53 -1,391.00 =) 8,318.53				1247.78
	Cost of 10 sqm				10957.31
	Cost of 1 sqm				1095.73
	Say				1095.75

9.38 Providing and fixing 4 mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Coir veneered board 4mm thick = 10sqm.+ Add for wastage @ 20% = 2 sqm. Total = 12 sqm				
7552	Coir veneered board 4 mm thick	sqm	12.00	290.00	3480.00
9999	Carriage of coir veneered board	L.S.	5.46	1.70	9.28
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	19.70	1083.50 A
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	393.00	1493.40
0114	Beldar	day	4.60	297.00	1366.20
0130	Mistry	day	0.60	393.00	235.80
9999	20mm nails without head for fixing ply	L.S.	53.82	1.70	91.49
	Priming coatPainting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
	TOTAL				8067.17
	Add Water Charges @ 1% except on A i.e on (8,067.17 - 1,391.00 =) 6,676.17				66.76
	TOTAL				8133.93
	Add CPOH @ 15% except on A i.e on (8,133.93 - 1,391.00 =) 6,742.93				1011.44
	Cost of 10 sqm				9145.37
	Cost of 1 sqm				914.54
	Say				914.55

9.39 Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete.

9.39.1 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm. MATERIAL: Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm. Total = 6.6 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	6.60	850.00	5610.00
9999	Carriage of particle board	L.S.	8.11	1.70	13.79
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1020.00
9999	Labour for drilling holes	L.S.	130.00	1.70	221.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.77	361.00	277.97
0114	Beldar	day	0.86	297.00	255.42
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.70	91.49
	Priming coatPainting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.00	30.75	184.50 A
	TOTAL				7674.17
	Add Water Charges @ 1% except on A i.e on (7,674.17 - 184.50 =) 7,489.67				74.90
	TOTAL				7749.07
	Add CPOH @ 15% except on A i.e on (7,749.07 - 184.50 =) 7,564.57				1134.69
	Cost of 6 sqm				8883.76
	Cost of 1 sqm				1480.63
	Say				1480.65

9.39.2 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm. MATERIAL: Teak shade pre-laminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm. Total = 6.6 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium	sqm	6.60	930.00	6138.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick				
9999	Carriage of particle board	L.S.	8.11	1.70	13.79
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1020.00
9999	Labour for drilling holes	L.S.	130.00	1.70	221.00
	LABOUR:				
	For dressing and fixing particle board to skirting				
0112	Carpenter 2nd class	day	0.77	361.00	277.97
0114	Beldar	day	0.86	297.00	255.42
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.70	91.49
	Painting with ready mixed priming coat at back				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.00	30.75	184.50 A
	TOTAL				8202.17
	Add Water Charges @ 1% except on A i.e on (8,202.17 - 184.50 =) 8,017.67				80.18
	TOTAL				8282.35
	Add CPOH @ 15% except on A i.e on (8,282.35 - 184.50 =) 8,097.85				1214.68
	Cost of 6 sqm				9497.03
	Cost of 1 sqm				1582.84
	Say				1582.85

9.40 Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete.

9.40.1 2nd class teak wood.

9.40.1.1 50x12 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre).				
	MATERIAL:				
	Teak wood IInd class in planks 500x5x 1.2cm =0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm				
1190	Second class teak wood in planks	10 cudm	3.30	725.00	239.25
2204	Carriage of timber	cum	0.0033	121.88	0.40
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500 (5+1.2+1.2)= 0.37 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.37	30.75	11.38 A
	LABOUR:				
	For plaining, fixing and making design				
0111	Carpenter 1 st class	day	0.53	393.00	208.29
	TOTAL				477.32
	Add Water Charges @ 1% except on A i.e on (477.32 - 11.38 =) 465.94				4.66
	TOTAL				481.98
	Add CPOH @ 15% except on A i.e on (481.98 - 11.38 =) 470.60				70.59
	Cost of 5 metre				552.57
	Cost of 1 metre				110.51
	Say				110.50

9.40.1.2 50 x 20 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre).				
	MATERIAL:				
	Teak wood IInd class in planks 500x5x 2.0cm = 0.005cum				
	Add for wastage @ 10% = 0.0005 cum				
	Total = 0.0055 cum. Say 5.5 cudm				
1190	Second class teak wood in planks	10 cudm	5.50	725.00	398.75
2204	Carriage of timber	cum	0.0055	121.88	0.67
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500 (5+2+2) = 0.45 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.45	30.75	13.84 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.53	393.00	208.29
	TOTAL				639.55
	Add Water Charges @ 1% except on A i.e on (639.55 - 13.84 =) 625.71				6.26
	TOTAL				645.81
	Add CPOH @ 15% except on A i.e on (645.81 -13.84 =) 631.97				94.80
	Cost of 5 metre				740.61
	Cost of 1 metre				148.12
	Say				148.10

9.40.2 Kiln seasoned and chemically treated hollock wood.

9.40.2.1 50x12 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre).				
	MATERIAL:				
	Hollock wood				
	500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm				
2505	Hollock wood in planks	10 cudm	3.30	370.00	122.10
2204	Carriage of timber	cum	0.0033	121.88	0.40
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500 (5+1.2+1.2) = 0.37 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.37	30.75	11.38 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.53	393.00	208.29
	TOTAL				360.17
	Add Water Charges @ 1% except on A i.e on (360.17 - 11.38 =) 348.79				3.49
	TOTAL				363.66
	Add CPOH @ 15% except on A i.e on (363.66 - 11.38 =) 352.28				52.84
	Cost of 5 metre				416.50
	Cost of 1 metre				83.30
	Say				83.30

9.40.2.2 50x20 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre).				
	MATERIAL:				
	Hollock wood 500x5x200cm = 0.005 cum+				
	Add for wastage @ 10% = 0.0005 cum.				
	Total = 0.0055 cum. Say 5.5 cudm				
2505	Hollock wood in planks	10 cudm	5.50	370.00	203.50
2204	Carriage of timber	cum	0.0055	121.88	0.67
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500 (5+2+2) = 0.45 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.45	30.75	13.84 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.53	393.00	208.29
	TOTAL				444.30
	Add Water Charges @ 1% except on A i.e on (444.30 - 13.84 =) 430.46				4.30
	TOTAL				448.60
	Add CPOH @ 15% except on A i.e on (448.60 - 13.84 =) 434.76				65.21
	Cost of 5 metre				513.81
	Cost of 1 metre				102.76
	Say				102.75

9.41 Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with.

9.41.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a jaffri 200x110cm = 2.2sqm. MATERIAL: Teakwood IInd class Jaffri 210x120x1.0cm = 0.025cum + Beading 660x5x1.2cm = 0.004cum Total = 0.029 cum + Add wastage @ 10% = 0.003 cum Total = 0.032 cum. Say 32 cudm				
1190	Second class teak wood in planks	10 cudm	32.00	725.00	2320.00
2204	Carriage of timber	cum	0.032	121.88	3.90
	LABOUR:				
0111	Carpenter 1 st class	day	0.75	393.00	294.75
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	0.50	297.00	148.50
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				3224.91
	Add Water Charges @ 1%				32.25
	TOTAL				3257.16
	Add CPOH @ 15%				488.57
	Cost of 2.2 sqm				3745.73
	Cost of 1 sqm				1702.60
	Say				1702.60

9.42 Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a pelmet 2m long. MATERIAL: (i) 18mm thick particle board (medium density exterior grade) Front-1x1.7x0.15=0.255sqm + Sides-2x0. 15x0.15= 0.045sqm Total = 0.300sqm + Add wastage @ 5% = 0.015sqm Total = 0.315sqm. Say 0.32 sqm.				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick 6mm thick commercial ply wood Top- 1x1.7x0.15=	sqm	0.32	420.00	134.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.255sqm + Add wastage @ 5% = 0.013 sqm. = 0.268 sqm. Say 0.27 sqm				
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.27	360.00	97.20
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.65	70.00	115.50
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9999	Carriage of material	L.S.	0.52	1.70	0.88
9999	M.S. flat 25 x 3 mm and 10cm long over brackets	L.S.	8.06	1.70	13.70
2505	Hollock wood in planks	10 cudm	0.32	370.00	11.84
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.18	361.00	64.98
0114	Beldar	day	0.18	297.00	53.46
0130	Mistry	day	0.11	393.00	43.23
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				573.83
	Add Water Charges @ 1%				5.74
	TOTAL				579.57
	Add CPOH @ 15%				86.94
	Cost of 2 metre				666.51
	Cost of 1 metre				333.26
	Say				333.25

9.43 Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a pelmet 2m long.				
	MATERIAL:				
	(i) 18mm thick Coir veneered board				
	Front-1 x 1.7x0.15= 0.255sqm +				
	Sides-2x0.15x0.15= 0.045sqm				
	Total = 0.300sqm +				
	Add wastage @5% = 0.015sqm				
	Total = 0.315sqm. Say 0.32 sqm				
7556	Coir veneered board 18 mm thick	sqm	0.32	1030.00	329.60
	6mm thick commercial ply wood				
	Top - 1 x 1.7x0.15= 0.255sqm +				
	Add wastage @ 5% = 0.013 sqm				
	Total = 0.268 sqm. Say 0.27 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7553	Coir veneered board 6 mm thick	sqm	0.27	390.00	105.30
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.65	70.00	115.50
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9999	Carriage of material	L.S.	0.52	1.70	0.88
9999	M.S. flat 25 x 3 mm and 10cm long over brackets	L.S.	8.06	1.70	13.70
2505	Hollock wood in planks	10 cudm	0.32	370.00	11.84
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.18	361.00	64.98
0114	Beldar	day	0.18	297.00	53.46
0130	Mistry	day	0.11	393.00	43.23
9999	Sundries	L.S.	2.73	1.70	4.64
	TOTAL				777.13
	Add Water Charges @ 1%				7.77
	TOTAL				784.90
	Add CPOH @ 15%				117.73
	Cost of 2 metre				902.63
	Cost of 1 metre				451.32
	Say				451.30

9.44 Extra for using veneered particle board conforming to IS: 3097 Grade I, in item of pelmet 18 mm thick 150 mm wide.

9.44.1 Non decorative veneer on both sides.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a pelmet 2m long.				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-lxl.7x0.15= 0.255sqm.+				
	Sides-2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm				
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	0.32	170.00	54.40
	TOTAL				54.40
	Add Water Charges @ 1%				0.54
	TOTAL				54.94
	Add CPOH @ 15%				8.24
	Cost of 2 metre				63.18
	Cost of 1 metre				31.59
	Say				31.60

9.44.2 Particle board with decorative veneering on both sides.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a pelmet 2m long.				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-lxl.7x0.15= 0.255sqm.+				
	Sides-2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm				
0348	Extra for veneered particle board with Teak veneering both sides	sqm	0.32	500.00	160.00
	TOTAL				160.00
	Add Water Charges @ 1%				1.60
	TOTAL				161.60
	Add CPOH @ 15%				24.24
	Cost of 2 metre				185.84
	Cost of 1 metre				92.92
	Say				92.90

9.45 Providing and fixing teak wood lipping of size 25x3 mm in pelmet.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre.				
	MATERIAL:				
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	10.00	22.00	220.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.25	297.00	74.25
	TOTAL				384.50
	Add Water Charges @ 1%				3.84
	TOTAL				388.34
	Add CPOH @ 15%				58.25
	Cost of 10 metre				446.59
	Cost of 1 metre				44.66
	Say				44.65

9.46 Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete.

9.46.1 12 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	2.00	190.00	380.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P.brass screws	L.S.	4.03	1.70	6.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	1.56	1.70	2.65
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	19.70	39.40 A
9999	Labour	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	1.56	1.70	2.65
	TOTAL				450.19
	Add Water Charges @ 1% except on A i.e on (450.19 - 39.40 =) 410.79				4.11
	TOTAL				454.30
	Add CPOH @ 15% except on A i.e on (454.30 -39.40 =) 414.90				62.23
	Cost of 2 metre				516.53
	Cost of 1 metre				258.27
	Say				258.25

9.46.2 20 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	2.00	260.00	520.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P.brass screws	L.S.	4.03	1.70	6.85
9999	Carriage	L.S.	1.56	1.70	2.65
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	19.70	39.40 A
9999	Labour	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	1.56	1.70	2.65
	TOTAL				590.19
	Add Water Charges @ 1% except on A i.e on (590.19 - 39.40 =) 550.79				5.51
	TOTAL				595.70
	Add CPOH @ 15% except on A i.e on (595.70 -39.40 =) 556.30				83.44
	Cost of 2 metre				679.14
	Cost of 1 metre				339.57
	Say				339.55

9.46.3 25 mm dia.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	2.00	350.00	700.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P. brass screws	L.S.	4.03	1.70	6.85
9999	Carriage	L.S.	1.56	1.70	2.65
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	19.70	39.40 A
9999	Labour	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	1.56	1.70	2.65
	TOTAL				770.19
	Add Water Charges @ 1% except on A i.e on (770.19 - 39.40 =) 730.79				7.31
	TOTAL				777.50
	Add CPOH @ 15% except on A i.e on (777.50 - 39.40 =) 738.10				110.72
	Cost of 2 metre				888.22
	Cost of 1 metre				444.11
	Say				444.10

9.47 Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets.

9.47.1 20 mm dia (heavy type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
7034	Nickel plated M.S. pipe 20 mm dia	metre	2.00	70.00	140.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9999	Screws	L.S.	4.03	1.70	6.85
9999	Carriage	L.S.	1.56	1.70	2.65
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
9999	Rawl plug 50 mm (designation 10 no.)	L.S.	5.20	1.70	8.84
9999	Sundries	L.S.	1.56	1.70	2.65
	TOTAL				194.99
	Add Water Charges @ 1%				1.95
	TOTAL				196.94
	Add CPOH @ 15%				29.54
	Cost of 2 metre				226.48
	Cost of 1 metre				113.24
	Say				113.25

9.47.2 25 mm dia (heavy type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
7033	Nickel plated M.S. pipe 25 mm dia	metre	2.00	80.00	160.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	2.00	8.00	16.00
9999	Screws	L.S.	4.03	1.70	6.85
9999	Carriage	L.S.	1.56	1.70	2.65
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
9999	Labour including fixing rawl plug	L.S.	5.20	1.70	8.84
9999	Sundries	L.S.	1.56	1.70	2.65
	TOTAL				216.99
	Add Water Charges @ 1%				2.17
	TOTAL				219.16
	Add CPOH @ 15%				32.87
	Cost of 2 metre				252.03
	Cost of 1 metre				126.02
	Say				126.00

9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.

9.48.1 Fixed to steel windows by welding.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a grill 90x120cm = 1.08sqm.				
	MATERIAL:				
	M.S. bar 16mm diameter- 11x86cm = 9.46m. @ 1.58kg/m= 14.95kg+ (A)				
	Add wastage @ 10% = 1.50kg.				
	Total = 16.45kg. Say 0.165 quintal				
1003	Mild steel round bar above 12 mm dia	quintal	0.165	4300.00	709.50
	M.S. flat 25x3.15mm				
	2xl20cm = 2.40m+				
	2x90cm= 1.80m+				
	lxl20cm= 1.20m+				
	2x15cm = 0.30m				
	Total =5.70m				
	5.70m @ 0.63kg/m = 3.59kg+ (B)				
	Add wastage @ 10% = 0.36kg.				
	Total = 3.95kg. Say 4 kg. or 0.04 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.04	4200.00	168.00
2205	Carriage of steel	tonne	0.02	94.80	1.90
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.91	1.70	45.75
9999	Welding charges	L.S.	19.76	1.70	33.59
	Priming coat:				
	Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.08	24.95	26.95 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0102	Blacksmith 1 st class	day	0.86	393.00	337.98
0114	Beldar	day	1.10	297.00	326.70
	TOTAL				1650.37
	Add Water Charges @ 1% except on A i.e on (1,650.37 - 26.95 =) 1,623.42				16.23
	TOTAL				1666.60
	Add CPOH @ 15% except on A i.e on (1,666.60 - 26.95 =) 1,639.65				245.95
	Cost of 18.54 kg (A+B)				1912.55
	Cost of 1 kg				103.16
	Say				103.15

9.48.2 Fixed to openings/ wooden frames with rawl plugs screws etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a grill 90x120cm = 1.08sqm.				
	MATERIAL:				
	M.S. bar 16mm dia. 11x86cm = 9.46m. @ 1.58kg/m= 14.95kg+ (A)				
	Add wastage @ 10% = 1.50kg.				
	Total = 16.45kg. Say 0.165quintal				
1003	Mild steel round bar above 12 mm dia	quintal	0.165	4300.00	709.50
	M.S. bar				
	M.S. flat 25x3.15mm				
	2xl20cm = 2.40m+				
	2x90cm= 1.80m+				
	lxl20cm= 1.20m+				
	2xl5cm = 0.30m				
	Total =5.70m				
	5.70m @ 0.63kg/m = 3.59kg+ (B)				
	Add wastage @ 10% = 0.36kg.				
	Total = 3.95kg. Say 4 kg. or 0.04 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.04	4200.00	168.00
2205	Carriage of steel	tonne	0.02	94.80	1.90
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.91	1.70	45.75
9999	Welding charges	L.S.	19.76	1.70	33.59
	Priming coat:				
	Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.08	24.95	26.95 A
	LABOUR:				
0102	Blacksmith 1 st class	day	0.86	393.00	337.98
0114	Beldar	day	1.10	297.00	326.70
7048	Rawl plug 50 mm (designation 10 nos)	each	8.00	10.00	80.00
9999	Fixing of rawl plugs	L.S.	26.00	1.70	44.20
	TOTAL				1774.57
	Add Water Charges @ 1% except on A i.e on (1,774.57 - 26.95 =) 1,747.62				17.48
	TOTAL				1792.05
	Add CPOH @ 15% except on A i.e on (1,792.05 - 26.95 =) 1,765.10				264.76
	Cost of 18.54 kg (A+ B)				2056.81
	Cost of 1 kg				110.94
	Say				110.95

9.49 Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x 110cm = 1.54sqm.				
	MATERIAL:				
	Expended metal -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	1.69	290.00	490.10
9999	Carriage	L.S.	1.82	1.70	3.09
	Priming coat				
	Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.54	24.95	38.42 A
	Second class teak wood beading				
	5mx62mmx19mm = 0.0059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	Total= 0.00649cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.00	725.00	435.00
2204	Carriage of timber	cum	0.006	121.88	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				1206.47
	Add Water Charges @ 1% except on A i.e on (1,206.47 - 38.42 =) 1,168.05				11.68
	TOTAL				1218.15
	Add CPOH @ 15% except on A i.e on (1,218.15 -38.42 =) 1,179.73				176.96
	Cost of 1.54 sqm				1395.11
	Cost of 1 sqm				905.92
	Say				905.90

9.50 Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x 110cm = 1.54sqm.				
	MATERIAL:				
	Hard drawn steel wire fabric -20x60mm mesh 3.2mm wide = 1.4x1.1m= 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
1021	Hard drawn steel wire fabric	sqm	1.69	430.00	726.70
9999	Carriage of wire fabric	L.S.	1.82	1.70	3.09
	Second class teak wood beading				
	5mx62mmx19mm = 0.00059cum.+				
	Add wastage @ 10% = 0.00059cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.000649cum. Say 6 cudm				
	Priming coat				
	Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.54	24.95	38.42 A
1190	Second class teak wood in planks	10 cudm	6.00	725.00	435.00
2204	Carriage of timber	cum	0.006	121.88	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				1430.91
	Add Water Charges @ 1% except on A i.e on (1,430.91 - 38.42 =) 1,392.49				13.92
	TOTAL				1444.83
	Add CPOH @ 15% except on A i.e on (1,444.83 - 38.42 =) 1,406.41				210.96
	Cost of 1.54 sqm				1655.79
	Cost of 1 sqm				1075.19
	Say				1075.20

9.51 Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.

9.51.1 With 2nd class teak wood beading 62X19 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x 110cm = 1.54sqm.				
	MATERIAL:				
	Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1 m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	250.00	422.50
9999	Carriage of wire fabric	L.S.	1.82	1.70	3.09
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	Total = 0.00649cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.00	725.00	435.00
2204	Carriage of timber	cum	0.006	121.88	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				1088.29
	Add Water Charges @ 1%				10.88
	TOTAL				1099.17
	Add CPOH @ 15%				164.88
	Cost of 1.54 sqm				1264.05
	Cost of 1 sqm				820.81
	Say				820.80

9.51.2 With 12 mm mild steel U beading.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x110cm = 1.54sqm.				
	MATERIAL:				
	Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	250.00	422.50
9999	Carriage of wire fabric	L.S.	1.82	1.70	3.09
7349	12 mm M.S. 'U' beading	metre	5.00	15.00	75.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				727.56
	Add Water Charges @ 1%				7.28
	TOTAL				734.84
	Add CPOH @ 15%				110.23
	Cost of 1.54 sqm				845.07
	Cost of 1 sqm				548.75
	Say				548.75

9.52 Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Difference in cost of				
1021	Hard drawn steel wire fabric	sqm	1.00	430.00	430.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	330.00	-330.00
	TOTAL				100.00
	Add Water Charges @ 1%				1.00
	TOTAL				101.00
	Add CPOH @ 15%				15.15
	Cost of 1 sqm				116.15
	Say				116.15

9.53 Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 hold fast.				
	MATERIAL:				
	M.S.flat 40x5mm 40cm long @ 1.68 kg/m = 0.672 kg = 0.0067 qunital				
1008	Flats up to 10 mm in thickness	quintal	0.0067	4200.00	28.14
9999	Carriage of steel	L.S.	1.82	1.70	3.09
	Cement concrete 1:3:6				
	30xl0xl5cm= 0.0045cum.+				
	Add wastage @ 10% = 0.00045cum.				
	Total = 0.00495cum. Say 0.005cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.005	5309.00	26.54 A
9999	Bolts and nuts	L.S.	5.46	1.70	9.28
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	361.00	10.83
0123	Mason (brick layer) 1 st class	day	0.03	393.00	11.79
0114	Beldar	day	0.03	297.00	8.91
	TOTAL				98.58
	Add Water Charges @ 1% except on A i.e on (98.58 - 26.54 =) 72.04				0.72
	TOTAL				99.30
	Add CPOH @ 15% except on A i.e on (99.30 - 26.54 =) 72.76				10.91
	Cost of each				110.21
	Say				110.20

9.54 Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with.

9.54.1 Sal wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam 450x30x15cm = 0.203cum. or 203cudm.				
	MATERIAL:				
	Sal wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				
1199	Sal wood in scantling	10 cudm	207.10	520.00	10769.20
2204	Carriage of timber	cum	0.207	121.88	25.23
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH: Finishing	sqm	0.54	22.45	12.12 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.70	361.00	252.70
0114	Beldar	day	1.45	297.00	430.65
0100	Bandhani	day	0.70	328.00	229.60
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				11765.25
	Add Water Charges @ 1% except on A i.e on (11,765.25 - 12.12 =) 11,753.13				117.53
	TOTAL				11882.78
	Add CPOH @ 15% except on A i.e on (11,882.78 - 12.12 =) 11,870.66				1780.60
	Cost of 0.203 cum				13663.38
	Cost of 1 cum				67307.29
	Say				67307.30

9.54.2 Hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam 450x30x15cm = 0.203cum. or203cudm.				
	MATERIAL:				
	Hollock wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				
2466	Hollock wood in scantling	10 cudm	207.10	325.00	6730.75
2204	Carriage of timber	cum	0.207	121.88	25.23
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH: Finishing	sqm	0.54	22.45	12.12 A
	LABOUR:				
0112	Carpenter 2nd class	day	0.70	361.00	252.70
0114	Beldar	day	1.45	297.00	430.65
0100	Bandhani	day	0.70	328.00	229.60
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				7726.80
	Add Water Charges @ 1% except on A i.e on (7,726.80 - 12.12 =) 7,714.68				77.15
	TOTAL				7803.95
	Add CPOH @ 15% except on A i.e on (7,803.95 - 12.12 =) 7,791.83				1168.77
	Cost of 0.203 cum				8972.72
	Cost of 1 cum				44200.59
	Say				44200.60

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete.

9.55.1 125x65x2.12 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	10.00	140.00	140.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	80.00	65.00	52.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				273.91
	Add Water Charges @ 1%				2.74
	TOTAL				276.65
	Add CPOH @ 15%				41.50
	Cost of 10 nos				318.15
	Cost of each				31.82
	Say				31.80

9.55.2 100x58x1.90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	10.00	85.00	85.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				206.91
	Add Water Charges @ 1%				2.07
	TOTAL				208.98
	Add CPOH @ 15%				31.35
	Cost of 10 nos				240.33
	Cost of each				24.03
	Say				24.05

9.55.3 75x47x1.70 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	10.00	60.00	60.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				164.36
	Add Water Charges @ 1%				1.64
	TOTAL				166.00
	Add CPOH @ 15%				24.90
	Cost of 10 nos				190.90
	Cost of each				19.09
	Say				19.10

9.55.4 50x37x1.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	10.00	50.00	50.00
0640	Bright finished or black enameled mild steel screws 20 mma	100 Nos	40.00	30.00	12.00
9999	Carriage of material	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				92.43
	Add Water Charges @ 1%				0.92
	TOTAL				93.35
	Add CPOH @ 15%				14.00
	Cost of 10 nos				107.35
	Cost of each				10.74
	Say				10.75

9.56 Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete.

9.56.1 125x90x4.00 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	10.00	330.00	330.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	80.00	65.00	52.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				463.91
	Add Water Charges @ 1%				4.64
	TOTAL				468.55
	Add CPOH @ 15%				70.28
	Cost of 10 nos				538.83
	Cost of each				53.88
	Say				53.90

9.56.2 100x75x3.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	10.00	170.00	170.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				291.91
	Add Water Charges @ 1%				2.92
	TOTAL				294.83
	Add CPOH @ 15%				44.22
	Cost of 10 nos				339.05
	Cost of each				33.91
	Say				33.90

9.56.3 75x60x3.10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
8224	M.S. heavy weight butt hinges 75x60x3. mm IS: 1341 marked	10 Nos	10.00	90.00	90.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				194.36
	Add Water Charges @ 1%				1.94
	TOTAL				196.30
	Add CPOH @ 15%				29.44
	Cost of 10 nos				225.74
	Cost of each				22.57
	Say				22.55

9.56.4 50x40x2.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten hinges.				
	MATERIAL:				
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	10.00	75.00	75.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	40.00	30.00	12.00
9999	Carriage of material	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				117.43
	Add Water Charges @ 1%				1.17
	TOTAL				118.60
	Add CPOH @ 15% 17.79				
	Cost of 10 nos				136.39
	Cost of each				13.64
	Say				13.65

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.1 125x65x2.12 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0642	Oxidised mild steel butt hinges 125x65x2. 12 mm	10 Nos	10.00	140.00	140.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00	75.00	60.00
9999	Carriage of material	L.S.	3.64	1.70	6.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				283.46
	Add Water Charges @ 1%				2.83
	TOTAL				286.29
	Add CPOH @ 15%				42.94
	Cost of 10 nos				329.23
	Cost of each				32.92
	Say				32.90

9.57.2 100x58x1.90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0643	Oxidised mild steel butt hinges 100x58x 1.90 mm	10 Nos	10.00	90.00	90.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.00	60.00	48.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				219.91
	Add Water Charges @ 1%				2.20
	TOTAL				222.11
	Add CPOH @ 15%				33.32
	Cost of 10 nos				255.43
	Cost of each				25.54
	Say				25.55

9.57.3 75x47x1.70 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0644	Oxidised mild steel butt hinges 75x47x 1.70 mm	10 Nos	10.00	65.00	65.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.00	55.00	33.00
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				178.36
	Add Water Charges @ 1%				1.78
	TOTAL				180.14
	Add CPOH @ 15%				27.02
	Cost of 10 nos				207.16
	Cost of each				20.72
	Say				20.70

9.57.4 50x37x1.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0645	Oxidised mild steel butt hinges 50x37x 1.50 mm	10 Nos	10.00	55.00	55.00
0686	Oxidised mild steel screws 20 mm	100 Nos	40.00	35.00	14.00
9999	Carriage of material	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				99.43
	Add Water Charges @ 1%				0.99
	TOTAL				100.42
	Add CPOH @ 15%				15.06
	Cost of 10 nos				115.48
	Cost of each				11.55
	Say				11.55

9.58 Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete.

9.58.1 150x125x27x2.80 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	10.00	340.00	340.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				484.76
	Add Water Charges @ 1%				4.85
	TOTAL				489.61
	Add CPOH @ 15%				73.44
	Cost of 10 nos				563.05
	Cost of each				56.31
	Say				56.30

9.58.2 125x125x27x2.80 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	10.00	315.00	315.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				459.76
	Add Water Charges @ 1%				4.60
	TOTAL				464.36
	Add CPOH @ 15%				69.65
	Cost of 10 nos				534.01
	Cost of each				53.40
	Say				53.40

9.58.3 100x125x27x2.80 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	10.00	235.00	235.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				379.76
	Add Water Charges @ 1%				3.80
	TOTAL				383.56
	Add CPOH @ 15%				57.53
	Cost of 10 nos				441.09
	Cost of each				44.11
	Say				44.10

9.58.4 75x100x20x2.24 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	10.00	200.00	200.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.00	55.00	33.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				329.76
	Add Water Charges @ 1%				3.30
	TOTAL				333.06
	Add CPOH @ 15%				49.96
	Cost of 10 nos				383.02
	Cost of each				38.30
	Say				38.30

9.59 Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete.

9.59.1 150 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0650	Oxidised mild steel single acting spring hinges 150 mm	each	10.00	115.00	1150.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00	75.00	60.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1418.44
	Add Water Charges @ 1%				14.18
	TOTAL				1432.62
	Add CPOH @ 15%				214.89
	Cost of 10 nos				1647.51
	Cost of each				164.75
	Say				164.75

9.59.2 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0651	Oxidised mild steel single acting spring hinges 125 mm	each	10.00	110.00	1100.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00	75.00	60.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1368.44
	Add Water Charges @ 1%				13.68
	TOTAL				1382.12
	Add CPOH @ 15%				207.32
	Cost of 10 nos				1589.44
	Cost of each				158.94
	Say				158.95

9.59.3 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0652	Oxidised mild steel single acting spring hinges 100 mm	each	10.00	90.00	900.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1156.44
	Add Water Charges @ 1%				11.56
	TOTAL				1168.00
	Add CPOH @ 15%				175.20
	Cost of 10 nos				1343.20
	Cost of each				134.32
	Say				134.30

9.60 Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.

9.60.1 150 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0653	Oxidised mild steel double acting spring hinges150 mm	each	10.00	115.00	1150.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00	75.00	60.00
9999	Carriage of material	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1418.44
	Add Water Charges @ 1%				14.18
	TOTAL				1432.62
	Add CPOH @ 15%				214.89
	Cost of 10 nos				1647.51
	Cost of each				164.75
	Say				164.75

9.60.2 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0654	Oxidised mild steel double acting spring hinges 125 mm	each	10.00	110.00	1100.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00	75.00	60.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1368.44
	Add Water Charges @ 1%				13.68
	TOTAL				1382.12
	Add CPOH @ 15%				207.32
	Cost of 10 nos				1589.44
	Cost of each				158.94
	Say				158.95

9.60.3 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0655	Oxidised mild steel double acting spring hinges 100 mm	each	10.00	90.00	900.00
0683	Oxidised mild steel screws 40 mm 1	00 Nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				1156.44
	Add Water Charges @ 1%				11.56
	TOTAL				1168.00
	Add CPOH @ 15%				175.20
	Cost of 10 nos				1343.20
	Cost of each				134.32
	Say				134.30

9.61 Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.

9.61.1 Overall width 35 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	1.00	45.00	45.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.00	35.00	10.50
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				135.86
	Add Water Charges @ 1%				1.36
	TOTAL				137.22
	Add CPOH @ 15%				20.58
	Cost of 1 metre				157.80
	Say				157.80

9.61.2 Overall width 50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	1.00	42.00	42.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.00	35.00	10.50
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				132.86
	Add Water Charges @ 1%				1.33
	TOTAL				134.19
	Add CPOH @ 15%				20.13
	Cost of 1 metre				154.32
	Say				154.30

9.61.3 Overall width 65 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	1.00	54.00	54.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.00	35.00	10.50
9999	Carriage of material	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				144.86
	Add Water Charges @ 1%				1.45
	TOTAL				146.31
	Add CPOH @ 15%				21.95
	Cost of 1 metre				168.26
	Say				168.25

9.62 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete.

9.62.1 300x16 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0660	Oxidised mild steel sliding door bolt 300x 16 mm	each	10.00	95.00	950.00
7040	Oxidised mild steel screws 35 mm	100 Nos	120.00	50.00	60.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.00	7.00	280.00
9999	Carriage of materials & sundries	L.S.	6.37	1.70	10.83
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
	TOTAL				1391.08
	Add Water Charges @ 1%				13.91
	TOTAL				1404.99
	Add CPOH @ 15%				210.75
	Cost of 10 nos				1615.74
	Cost of each				161.57
	Say				161.55

9.62.2 250x16 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0661	Oxidised mild steel sliding door bolt 250x 16 mm	each	10.00	90.00	900.00
7040	Oxidised mild steel screws 35 mm	100 Nos	100.00	50.00	50.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.00	7.00	280.00
9999	Carriage of materials & sundries	L.S.	6.37	1.70	10.83
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
	TOTAL				1331.08
	Add Water Charges @ 1%				13.31
	TOTAL				1344.39
	Add CPOH @ 15%				201.66
	Cost of 10 nos				1546.05
	Cost of each				154.61
	Say				154.60

9.63 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete.

9.63.1 250x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	10.00	45.00	450.00
0684	Oxidised mild steel screws 30 mm	100 Nos	100.00	55.00	55.00
9999	Carriage of material	L.S.	3.64	1.70	6.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				547.29
	Add Water Charges @ 1%				5.47
	TOTAL				552.76
	Add CPOH @ 15%				82.91
	Cost of 10 nos				635.67
	Cost of each				63.57
	Say				63.55

9.63.2 200x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	10.00	40.00	400.00
0684	Oxidised mild steel screws 30 mm	100 Nos	80.00	55.00	44.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				484.74
	Add Water Charges @ 1%				4.85
	TOTAL				489.59
	Add CPOH @ 15%				73.44
	Cost of 10 nos				563.03
	Cost of each				56.30
	Say				56.30

9.63.3 150x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	10.00	30.00	300.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.00	55.00	33.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				373.74
	Add Water Charges @ 1%				3.74
	TOTAL				377.48
	Add CPOH @ 15%				56.62
	Cost of 10 nos				434.10
	Cost of each				43.41
	Say				43.40

9.63.4 100x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	10.00	25.00	250.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.00	55.00	33.00
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				316.52
	Add Water Charges @ 1%				3.17
	TOTAL				319.69
	Add CPOH @ 15%				47.95
	Cost of 10 nos				367.64
	Cost of each				36.76
	Say				36.75

9.64 Providing and fixing ISI marked 85x42mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.00	50.00	500.00
9999	Carriage of material & sundries	L.S.	6.37	1.70	10.83
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
	TOTAL				601.08
	Add Water Charges @ 1%				6.01
	TOTAL				607.09
	Add CPOH @ 15%				91.06
	Cost of 10 nos				698.15
	Cost of each				69.82
	Say				69.80

9.65 Providing and fixing ISI marked oxidised MS door latches conforming to IS : 5930 with screws etc. complete.

9.65.1 300x20x6 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0662	Oxidised mild steel door latch 300x20x6 mm	each	10.00	48.00	480.00
0685	Oxidised mild steel screws 25 mm	100 Nos	90.00	45.00	40.50
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.12	361.00	43.32
	TOTAL				570.01
	Add Water Charges @ 1%				5.70
	TOTAL				575.71
	Add CPOH @ 15%				86.36
	Cost of 10 nos				662.07
	Cost of each				66.21
	Say				66.20

9.65.2 250x20x6 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0663	Oxidised mild steel door latch 250x20x6 mm	each	10.00	40.00	400.00
0685	Oxidised mild steel screws 25 mm	100 Nos	90.00	45.00	40.50
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.12	361.00	43.32
	TOTAL				490.01
	Add Water Charges @ 1%				4.90
	TOTAL				494.91
	Add CPOH @ 15%				74.24
	Cost of 10 nos				569.15
	Cost of each				56.92
	Say				56.90

9.66 2Providing and fixing ISI marked oxidised M.S. handles conforming to IS :4992 with necessary screws etc. complete.

9.66.1 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0668	Oxidised mild steel handles 125 mm	each	10.00	19.00	190.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	361.00	21.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				234.30
	Add Water Charges @ 1%				2.34
	TOTAL				236.64
	Add CPOH @ 15%				35.50
	Cost of 10 nos				272.14
	Cost of each				27.21
	Say				27.20

9.66.2 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0669	Oxidised mild steel handles 100 mm	each	10.00	16.00	160.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
	TOTAL				202.75
	Add Water Charges @ 1%				2.03
	TOTAL				204.78
	Add CPOH @ 15%				30.72
	Cost of 10 nos				235.50
	Cost of each				23.55
	Say				23.55

9.66.3 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0670	Oxidised mild steel handles 75 mm	each	10.00	15.00	150.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
	TOTAL				192.75
	Add Water Charges @ 1%				1.93
	TOTAL				194.68
	Add CPOH @ 15%				29.20
	Cost of 10 nos				223.88
	Cost of each				22.39
	Say				22.40

9.67 Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete.

9.67.1 150 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	10.00	125.00	125.00
0685	Oxidised mild steel screws 25 mm	100 Nos	80.00	45.00	36.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	ABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				192.97
	Add Water Charges @ 1%				1.93
	TOTAL				194.90
	Add CPOH @ 15%				29.24
	Cost of 10 nos				224.14
	Cost of each				22.41
	Say				22.40

9.67.2 115 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 nos	10.00	100.00	100.00
0685	Oxidised mild steel screws 25 mm	100 Nos	70.00	45.00	31.50
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				163.47
	Add Water Charges @ 1%				1.63
	TOTAL				165.10
	Add CPOH @ 15%				24.76
	Cost of 10 nos				189.86
	Cost of each				18.99
	Say				19.00

9.67.3 90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	10.00	75.00	75.00
0685	Oxidised mild steel screws 25 mm	100 Nos	70.00	45.00	31.50
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				138.47
	Add Water Charges @ 1%				1.38
	TOTAL				139.85
	Add CPOH @ 15%				20.98
	Cost of 10 nos				160.83
	Cost of each				16.08
	Say				16.10

9.68 Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.

9.68.1 300 mm weighing not less than 200 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	10.00	22.00	220.00
0684	Oxidised mild steel screws 30 mm	100 Nos	40.00	55.00	22.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				279.65
	Add Water Charges @ 1%				2.80
	TOTAL				282.45
	Add CPOH @ 15%				42.37
	Cost of 10 nos				324.82
	Cost of each				32.48
	Say				32.50

9.68.2 250 mm weighing not less than 150 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	10.00	20.00	200.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				255.65
	Add Water Charges @ 1%				2.56
	TOTAL				258.21
	Add CPOH @ 15%				38.73
	Cost of 10 nos				296.94
	Cost of each				29.69
	Say				29.70

9.68.3 200 mm weighing not less than 120 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	10.00	18.00	180.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				235.65
	Add Water Charges @ 1%				2.36
	TOTAL				238.01
	Add CPOH @ 15%				35.70
	Cost of 10 nos				273.71
	Cost of each				27.37
	Say				27.35

9.69 Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less than 450 gms).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	10.00	60.00	600.00
0685	Oxidised mild steel screws 25 mm	100 Nos	60.00	45.00	27.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				664.65
	Add Water Charges @ 1%				6.65
	TOTAL				671.30
	Add CPOH @ 15%				100.70
	Cost of 10 nos				772.00
	Cost of each				77.20
	Say				77.20

9.70 Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete.

9.70.1 125x64x1.90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	10.00	250.00	250.00
8210	Stainless steel screws 50 mm	100 Nos	80.00	250.00	200.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				531.91
	Add Water Charges @ 1%				5.32
	TOTAL				537.23
	Add CPOH @ 15%				80.58
	Cost of 10 nos				617.81
	Cost of each				61.78
	Say				61.80

9.70.2 100X58X1.90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	10.00	230.00	230.00
8211	Stainless steel screws 40 mm	100 Nos	80.00	200.00	160.00
9999	Carriage of materials	L.S.	2.73	1.70	4.6
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				471.91
	Add Water Charges @ 1%				4.72
	TOTAL				476.63
	Add CPOH @ 15%				71.49
	Cost of 10 nos				548.12
	Cost of each				54.81
	Say				54.80

9.70.3 75x47x1.80 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	10.00	150.00	150.00
8212	Stainless steel screws 30 mm	100 Nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				320.36
	Add Water Charges @ 1%				3.20
	TOTAL				323.56
	Add CPOH @ 15%				48.53
	Cost of 10 nos				372.09
	Cost of each				37.21
	Say				37.20

9.70.4 50x37x1.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	10.00	130.00	130.00
8214	Stainless steel screws 20 mm	100 Nos	40.00	100.00	40.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				200.43
	Add Water Charges @ 1%				2.00
	TOTAL				202.43
	Add CPOH @ 15%				30.36
	Cost of 10 nos				232.79
	Cost of each				23.28
	say				23.30

9.71 Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete.

9.71.1 125x64x2.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	10.00	330.00	330.00
8210	Stainless steel screws 50 mm	100 Nos	80.00	250.00	200.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				611.91
	Add Water Charges @ 1%				6.12
	TOTAL				618.03
	Add CPOH @ 15%				92.70
	Cost of 10 nos				710.73
	Cost of each				71.07
	Say				71.05

9.71.2 100x60x2.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	10.00	240.00	240.00
8211	Stainless steel screws 40 mm	100 Nos	80.00	200.00	160.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				481.91
	Add Water Charges @ 1%				4.82
	TOTAL				486.73
	Add CPOH @ 15%				73.01
	Cost of 10 nos				559.74
	Cost of each				55.97
	Say				55.95

9.71.3 75x50x2.50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	10.00	195.00	195.00
8212	Stainless steel screws 30 mm	100 Nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				365.36
	Add Water Charges @ 1%				3.65
	TOTAL				369.01
	Add CPOH @ 15%				55.35
	Cost of 10 nos				424.36
	Cost of each				42.44
	Say				42.45

9.72 Providing and fixing bright finished brass butt hinges with necessary screws etc. complete.

9.72.1 125x85x5.5 mm (heavy type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	10.00	3100.00	3100.00
0449	Brass screws 50 mm	100 Nos	100.00	210.00	210.00
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70
	TOTAL				3400.91
	Add Water Charges @ 1%				34.01
	TOTAL				3434.92
	Add CPOH @ 15%				515.24
	Cost of 10 nos				3950.16
	Cost of each				395.02
	Say				395.00

9.72.2 125x70x4 mm (ordinary type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	10.00	850.00	850.00
0449	Brass screws 50 mm	100 Nos	100.00	210.00	210.00
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70
	TOTAL				1150.91
	Add Water Charges @ 1%				11.51
	TOTAL				1162.42
	Add CPOH @ 15%				174.36
	Cost of 10 nos				1336.78
	Cost of each				133.68
	Say				133.70

9.72.3 100x85x5.5 mm (heavy type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	10.00	2750.00	2750.00
0450	Brass screws 40 mm	100 Nos	80.00	170.00	136.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70
	TOTAL				2975.36
	Add Water Charges @ 1%				29.75
	TOTAL				3005.11
	Add CPOH @ 15%				450.77
	Cost of 10 nos				3455.88
	Cost of each				345.59
	Say				345.60

9.72.4 100x70x4 mm (ordinary type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0379	Brass butt hinges (light/ordinary type) : 100x70x4mm	10 Nos	10.00	700.00	700.00
0450	Brass screws 40 mm	100 Nos	80.00	170.00	136.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				925.36
	Add Water Charges @ 1%				9.25
	TOTAL				934.61
	Add CPOH @ 15%				140.19
	Cost of 10 nos				1074.80
	Cost of each				107.48
	Say				107.50

9.72.5 75x65x4 mm (heavy type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	10.00	950.00	950.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70
	TOTAL				1120.36
	Add Water Charges @ 1%				11.20
	TOTAL				1131.56
	Add CPOH @ 15%				169.73
	Cost of 10 nos				1301.29
	Cost of each				130.13
	Say				130.15

9.72.6 75x40x2.5 mm (ordinary type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	10.00	430.00	430.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.10	297.00	29.70
	TOTAL				600.36
	Add Water Charges @ 1%				6.00
	TOTAL				606.36
	Add CPOH @ 15%				90.95
	Cost of 10 nos				697.31
	Cost of each				69.73
	Say				69.75

9.72.7 50x40x2.5 mm (ordinary type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	10.00	180.00	180.00
0453	Brass screws 20 mm	100 Nos	40.00	90.00	36.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				250.53
	Add Water Charges @ 1%				2.51
	TOTAL				253.04
	Add CPOH @ 15%				37.96
	Cost of 10 nos				291.00
	Cost of each				29.10
	Say				29.10

9.73 Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete.

9.73.1 150x125x27x5 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	10.00	2850.00	2850.00
0450	Brass screws 40 mm	100 Nos	80.00	170.00	136.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				3087.24
	Add Water Charges @ 1%				30.87
	TOTAL				3118.11
	Add CPOH @ 15%				467.72
	Cost of 10 nos				3585.83
	Cost of each				358.58
	Say				358.60

9.73.2 125x125x27x5 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0386	Brass parliamentary hinges 125x125x 27x5 mm	10 Nos	10.00	2500.00	2500.00
0450	Brass screws 40 mm	100 Nos	80.00	170.00	136.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				2737.24
	Add Water Charges @ 1%				27.37
	TOTAL				2764.61
	Add CPOH @ 15%				414.69
	Cost of 10 nos				3179.30
	Cost of each				317.93
	Say				317.95

9.73.3 100x125x27x5 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0387	Brass parliamentary hinges 100x125x 27x5 mm	10 Nos	10.00	2300.00	2300.00
0450	Brass screws 40 mm	100 Nos	80.00	170.00	136.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				2537.24
	Add Water Charges @ 1%				25.37
	TOTAL				2562.61
	Add CPOH @ 15%				384.39
	Cost of 10 nos				2947.00
	Cost of each				294.70
	Say				294.70

9.73.4 75x100x20x3.2 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0388	Brass parliamentary hinges 75x100x 20x3.2 mm	10 Nos	10.00	1750.00	1750.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				1932.24
	Add Water Charges @ 1%				19.32
	TOTAL				1951.56
	Add CPOH @ 15%				292.73
	Cost of 10 nos				2244.29
	Cost of each				224.43
	Say				224.45

9.74 Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete.

9.74.1 250x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0400	Brass tower bolt (barrel type) 250x10 mm	each	10.00	230.00	2300.00
0451	Brass screws 30 mm	100 Nos	100.00	135.00	135.00
9999	Carriage of materials	L.S.	4.55	1.70	7.74
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				2482.04
	Add Water Charges @ 1%				24.82
	TOTAL				2506.86
	Add CPOH @ 15%				376.03
	Cost of 10 nos				2882.89
	Cost of each				288.29
	Say				288.30

9.74.2 200x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0401	Brass tower bolt (barrel type) 200x10 mm	each	10.00	180.00	1800.00
0451	Brass screws 30 mm	100 Nos	80.00	135.00	108.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1951.94
	Add Water Charges @ 1%				19.52
	TOTAL				1971.46
	Add CPOH @ 15%				295.72
	Cost of 10 nos				2267.18
	Cost of each				226.72
	Say				226.70

9.74.3 150x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0402	Brass tower bolt (barrel type) 150x10 mm	each	10.00	145.00	1450.00
0451	Brass screws 30 mm	100 Nos	80.00	135.00	108.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1601.94
	Add Water Charges @ 1%				16.02
	TOTAL				1617.96
	Add CPOH @ 15%				242.69
	Cost of 10 nos				1860.65
	Cost of each				186.07
	Say				186.05

9.74.4 100x10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0403	Brass tower bolt (barrel type) 100x10 mm	each	10.00	95.00	950.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1074.94
	Add Water Charges @ 1%				10.75
	TOTAL				1085.69
	Add CPOH @ 15%				162.85
	Cost of 10 nos				1248.54
	Cost of each				124.85
	Say				124.85

9.75 Providing and fixing bright finished brass door latch with necessary screws etc. complete.

9.75.1 300x16x5 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	10.00	165.00	1650.00
0452	Brass screws 25 mm	100 Nos	90.00	95.00	85.50
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0111	Carpenter 1 st class	day	0.12	393.00	47.16
	TOTAL				1788.85
	Add Water Charges @ 1%				17.89
	TOTAL				1806.74
	Add CPOH @ 15%				271.01
	Cost of 10 nos				2077.75
	Cost of each				207.78
	Say				207.80

9.75.2 250x16x5 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	10.00	160.00	1600.00
0452	Brass screws 25 mm	100 Nos	90.00	95.00	85.50
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0111	Carpenter 1 st class	day	0.12	393.00	47.16
	TOTAL				1738.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				17.39
	TOTAL				1756.24
	Add CPOH @ 15%				263.44
	Cost of 10 nos				2019.68
	Cost of each				201.97
	Say				201.95

9.76 Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	370.00	370.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.70	6.19
	TOTAL				443.00
	Add Water Charges @ 1%				4.43
	TOTAL				447.43
	Add CPOH @ 15%				67.11
	Cost of each				514.54
	Say				514.55

9.77 Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	1.00	320.00	320.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.70	6.19
	TOTAL				393.00
	Add Water Charges @ 1%				3.93
	TOTAL				396.93
	Add CPOH @ 15%				59.54
	Cost of each				456.47
	Say				456.45

9.78 Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0438	Brass night latch	each	1.00	495.00	495.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.70	6.19
	TOTAL				568.00
	Add Water Charges @ 1%				5.68
	TOTAL				573.68
	Add CPOH @ 15%				86.05
	Cost of each				659.73
	Say				659.75

9.79 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.

9.79.1 40 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	1.00	70.00	70.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				143.00
	Add Water Charges @ 1%				1.43
	TOTAL				144.43
	Add CPOH @ 15%				21.66
	Cost of each				166.09
	Say				166.10

9.79.2 50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	1.00	75.00	75.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				148.00
	Add Water Charges @ 1%				1.48
	TOTAL				149.48
	Add CPOH @ 15%				22.42
	Cost of each				171.90
	Say				171.90

9.79.3 65 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	1.00	80.00	80.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				153.00
	Add Water Charges @ 1%				1.53
	TOTAL				154.53
	Add CPOH @ 15%				23.18
	Cost of each				177.71
	Say				177.70

9.79.4 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	1.00	100.00	100.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				173.00
	Add Water Charges @ 1%				1.73
	TOTAL				174.73
	Add CPOH @ 15%				26.21
	Cost of each				200.94
	Say				200.95

9.80 Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos				
	MATERIAL:				
0447	Brass cupboard knob or wardrobe knob 50 mm	each	10.00	35.00	350.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
	TOTAL				409.66
	Add Water Charges @ 1%				4.10
	TOTAL				413.76
	Add CPOH @ 15%				62.06
	Cost of 10 nos				475.82
	Cost of each				47.58
	Say				47.60

9.81 Providing and fixing bright finished brass handles with screws etc. complete.

9.81.1 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0408	Brass handles 125 mm with plate 175x32 mm	each	10.00	140.00	1400.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1466.22
	Add Water Charges @ 1%				14.66
	TOTAL				1480.88
	Add CPOH @ 15%				222.13
	Cost of 10 nos				1703.01
	Cost of each				170.30
	Say				170.30

9.81.2 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0409	Brass handles 100 mm with plate 150x32 mm	each	10.00	130.00	1300.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1363.13
	Add Water Charges @ 1%				13.63
	TOTAL				1376.76
	Add CPOH @ 15%				206.51
	Cost of 10 nos				1583.27
	Cost of each				158.33
	Say				158.35

9.81.3 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos,				
0410	Brass handles 75 mm with plate 125x32 mm	each	10.00	100.00	1000.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1063.13
	Add Water Charges @ 1%				10.63
	TOTAL				1073.76
	Add CPOH @ 15%				161.06
	Cost of 10 nos				1234.82
	Cost of each				123.48
	Say				123.50

9.82 Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 hanging floor door stoppers.				
	MATERIAL:				
2455	Brass hanging type door stopper 150 mm	each	10.00	65.00	650.00
0452	Brass screws 25 mm	100 Nos	20.00	95.00	19.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	393.00	11.79
	TOTAL				685.43
	Add Water Charges @ 1%				6.85
	TOTAL				692.28
	Add CPOH @ 15%				103.84
	Cost of 10 nos				796.12
	Cost of each				79.61
	Say				79.60

9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	10.00	590.00	5900.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
	TOTAL				6348.19
	Add Water Charges @ 1%				63.48
	TOTAL				6411.67
	Add CPOH @ 15%				961.75
	Cost of 10 nos				7373.42
	Cost of each				737.34
	Say				737.35

9.84 Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7060	Hydraulic door closer tubular type Aluminium section body	each	10.00	840.00	8400.00
0451	Brass screws 30 mm	100 Nos	60.00	135.00	81.00
9999	Carriage of materials	L.S.	1.00	1.70	1.70
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	361.00	361.00
	TOTAL				8843.70
	Add Water Charges @ 1%				88.44
	TOTAL				8932.14
	Add CPOH @ 15%				1339.82
	Cost of 10 nos				10271.96
	Cost of each				1027.20
	Say				1027.20

9.85 Providing and fixing bright finished brass· casement window fastener with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0423	Brass casement window fastener	each	10.00	50.00	500.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				578.85
	Add Water Charges @ 1%				5.79
	TOTAL				584.64
	Add CPOH @ 15%				87.70
	Cost of 10 nos				672.34
	Cost of each				67.23
	Say				67.25

9.86 Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete.

9.86.1 300 mm weighing not less than 330 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	10.00	135.00	1350.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0451	Brass screws 30 mm	100 Nos	40.00	135.00	54.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1444.85
	Add Water Charges @ 1%				14.45
	TOTAL				1459.30
	Add CPOH @ 15%				218.90
	Cost of 10 nos				1678.20
	Cost of each				167.82
	Say				167.80

9.86.2 250 mm weighing not less than 280 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.00	110.00	1100.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1178.85
	Add Water Charges @ 1%				11.79
	TOTAL				1190.64
	Add CPOH @ 15%				178.60
	Cost of 10 nos				1369.24
	Cost of each				136.92
	Say				136.90

9.86.3 200 mm weighing not less than 240 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.00	100.00	1000.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1078.85
	Add Water Charges @ 1%				10.79
	TOTAL				1089.64
	Add CPOH @ 15%				163.45
	Cost of 10 nos				1253.09
	Cost of each				125.31
	Say				125.30

9.87 Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete.

9.87.1 150 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	10.00	775.00	775.00
0452	Brass screws 25 mm	100 Nos	80.00	95.00	76.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				885.53
	Add Water Charges @ 1%				8.86
	TOTAL				894.39
	Add CPOH @ 15%				134.16
	Cost of 10 nos				1028.55
	Cost of each				102.86
	Say				102.85

9.87.2 115 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	10.00	650.00	650.00
0453	Brass screws 20 mm	100 Nos	70.00	90.00	63.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				747.53
	Add Water Charges @ 1%				7.48
	TOTAL				755.01
	Add CPOH @ 15%				113.25
	Cost of 10 nos				868.26
	Cost of each				86.83
	Say				86.85

9.87.3 90 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0433	Brass hasps and staples (safety type) 90 mm	10 Nos	10.00	560.00	560.00
0453	Brass screws 20 mm	100 Nos	70.00	90.00	63.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				657.53
	Add Water Charges @ 1%				6.58
	TOTAL				664.11
	Add CPOH @ 15%				99.62
	Cost of 10 nos				763.73
	Cost of each				76.37
	Say				76.35

9.88 Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	540.00	540.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.70	6.19
	TOTAL				613.00
	Add Water Charges @ 1%				6.13
	TOTAL				619.13
	Add CPOH @ 15%				92.87
	Cost of each				712.00
	Say				712.00

9.89 Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0583	Chromium plated Brass Night latch	each	1.00	530.00	530.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.70	6.19
	TOTAL				603.00
	Add Water Charges @ 1%				6.03
	TOTAL				609.03
	Add CPOH @ 15%				91.35
	Cost of each				700.38
	Say				700.40

9.90 Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.

9.90.1 Size 40 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	1.00	65.00	65.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				138.00
	Add Water Charges @ 1%				1.38
	TOTAL				139.38
	Add CPOH @ 15%				20.91
	Cost of each				160.29
	Say				160.30

9.90.2 Size 50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	1.00	75.00	75.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				148.00
	Add Water Charges @ 1%				1.48
	TOTAL				149.48
	Add CPOH @ 15%				22.42
	Cost of each				171.90
	Say				171.90

9.90.3 Size 65 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	1.00	85.00	85.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				158.00
	Add Water Charges @ 1%				1.58
	TOTAL				159.58
	Add CPOH @ 15%				23.94
	Cost of each				183.52
	Say				183.50

9.90.4 Size 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	1.00	110.00	110.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries & screws	L.S.	3.64	1.70	6.19
	TOTAL				183.00
	Add Water Charges @ 1%				1.83
	TOTAL				184.83
	Add CPOH @ 15%				27.72
	Cost of each				212.55
	Say				212.55

9.91 Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	10.00	48.00	480.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
	TOTAL				539.66
	Add Water Charges @ 1%				5.40
	TOTAL				545.06
	Add CPOH @ 15%				81.76
	Cost of 10 nos				626.82
	Cost of each				62.68
	Say				62.70

9.92 Providing and fixing chromium plated brass handles with necessary screws etc. complete.

9.92.1 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	10.00	175.00	1750.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1816.22
	Add Water Charges @ 1%				18.16
	TOTAL				1834.38
	Add CPOH @ 15%				275.16
	Cost of 10 nos				2109.54
	Cost of each				210.95
	Say				210.95

9.92.2 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	10.00	150.00	1500.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1563.13
	Add Water Charges @ 1%				15.63
	TOTAL				1578.76
	Add CPOH @ 15%				236.81
	Cost of 10 nos				1815.57
	Cost of each				181.56
	Say				181.55

9.92.3 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	10.00	130.00	1300.00
0452	Brass screws 25 mm	100 Nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				1363.13
	Add Water Charges @ 1%				13.63
	TOTAL				1376.76
	Add CPOH @ 15%				206.51
	Cost of 10 nos				1583.27
	Cost of each				158.33
	Say				158.35

9.93 Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0568	Chromium plated brass casement window fastener	each	10.00	95.00	950.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1038.85
	Add Water Charges @ 1%				10.39
	TOTAL				1049.24
	Add CPOH @ 15%				157.39
	Cost of 10 nos				1206.63
	Cost of each				120.66
	Say				120.65

9.94 Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete.

9.94.1 300 mm weighing not less than 330 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	10.00	150.00	1500.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1588.85
	Add Water Charges @ 1%				15.89
	TOTAL				1604.74
	Add CPOH @ 15%				240.71
	Cost of 10 nos				1845.45
	Cost of each				184.55
	Say				184.55

9.94.2 250 mm weighing not less than 280 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.00	130.00	1300.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1388.85
	Add Water Charges @ 1%				13.89
	TOTAL				1402.74
	Add CPOH @ 15%				210.41
	Cost of 10 nos				1613.15
	Cost of each				161.32
	Say				161.30

9.94.3 200 mm weighing not less than 240 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.00	115.00	1150.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				1238.85
	Add Water Charges @ 1%				12.39
	TOTAL				1251.24
	Add CPOH @ 15%				187.69
	Cost of 10 nos				1438.93
	Cost of each				143.89
	Say				143.90

9.95 Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete.

9.95.1 125 x 75x 4 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0687	Anodised Aluminium butt hinges 125x75x 4 mm	10 Nos	10.00	570.00	570.00
0585	Chromium plated Brass screws 50 mm	100 Nos	100.00	240.00	240.00
9999	Carriage of materials	L.S.	3.64	1.70	6.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				897.94
	Add Water Charges @ 1%				8.98
	TOTAL				906.92
	Add CPOH @ 15%				136.04
	Cost of 10 nos				1042.96
	Cost of each				104.30
	Say				104.30

9.95.2 125 x 63 x 4 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	10.00	530.00	530.00
0585	Chromium plated Brass screws 50 mm	100 Nos	100.00	240.00	240.00
9999	Carriage of materials	L.S.	3.64	1.70	6.19
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				857.94
	Add Water Charges @ 1%				8.58
	TOTAL				866.52
	Add CPOH @ 15%				129.98
	Cost of 10 nos				996.50
	Cost of each				99.65
	Say				99.65

9.95.3 100 x 75 x 4 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	10.00	520.00	520.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	200.00	160.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				766.39
	Add Water Charges @ 1%				7.66
	TOTAL				774.05
	Add CPOH @ 15%				116.11
	Cost of 10 nos				890.16
	Cost of each				89.02
	Say				89.00

9.95.4 100 x 63 x 4 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	10.00	510.00	510.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	200.00	160.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				756.39
	Add Water Charges @ 1%				7.56
	TOTAL				763.95
	Add CPOH @ 15%				114.59
	Cost of 10 nos				878.54
	Cost of each				87.85
	Say				87.85

9.95.5 100 x 63 x 3.2 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0690	Anodised Aluminium butt hinges 100x63x 3.2 mm	10 Nos	10.00	500.00	500.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	200.00	160.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				746.39
	Add Water Charges @ 1%				7.46
	TOTAL				753.85
	Add CPOH @ 15%				113.08
	Cost of 10 nos				866.93
	Cost of each				86.69
	Say				86.70

9.95.6 75 x 63 x 4 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	10.00	500.00	500.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.00	155.00	93.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				677.84
	Add Water Charges @ 1%				6.78
	TOTAL				684.62
	Add CPOH @ 15%				102.69
	Cost of 10 nos				787.31
	Cost of each				78.73
	Say				78.75

9.95.7 75 x 63 x 3.2 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0693	Anodised Aluminium butt hinges 75x63x 3.2 mm	10 Nos	10.00	470.00	470.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.00	155.00	93.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				647.84
	Add Water Charges @ 1%				6.48
	TOTAL				654.32
	Add CPOH @ 15%				98.15
	Cost of 10 nos				752.47
	Cost of each				75.25
	Say				75.25

9.95.8 75 x 45 x 3.2 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0694	Anodised Aluminium butt hinges 75x45x 3.2 mm	10 nos	10.00	390.00	390.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.00	155.00	93.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				567.84
	Add Water Charges @ 1%				5.68
	TOTAL				573.52
	Add CPOH @ 15%				86.03
	Cost of 10 nos				659.55
	Cost of each				65.96
	Say				65.95

9.96 Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete.

9.96.1 300 x 16 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0696	Anodised Aluminium sliding door bolt 300x 16 mm	each	10.00	160.00	1600.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	5.46	1.70	9.28
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
	TOTAL				1853.78
	Add Water Charges @ 1%				18.54
	TOTAL				1872.32
	Add CPOH @ 15%				280.85
	Cost of 10 nos				2153.17
	Cost of each				215.32
	Say				215.30

9.96.2 250 x 16 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0697	Anodised Aluminium sliding door bolt 250x 16 mm	each	10.00	130.00	1300.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	5.46	1.70	9.28
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
	TOTAL				1553.78
	Add Water Charges @ 1%				15.54
	TOTAL				1569.32
	Add CPOH @ 15%				235.40
	Cost of 10 nos				1804.72
	Cost of each				180.47
	Say				180.45

9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete.

9.97.1 300 x 10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	10.00	750.00	750.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0587	Chromium plated Brass screws 30 mm	100 Nos	80.00	155.00	124.00
9999	Carriage of materials	L.S.	4.42	1.70	7.51
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	393.00	49.12
	TOTAL				930.63
	Add Water Charges @ 1%				9.31
	TOTAL				939.94
	Add CPOH @ 15%				140.99
	Cost of 10 nos				1080.93
	Cost of each				108.09
	Say				108.10

9.97.2 250 x 10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	10.00	600.00	600.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.00	155.00	124.00
9999	Carriage of materials	L.S.	4.42	1.70	7.51
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	393.00	49.12
	TOTAL				780.63
	Add Water Charges @ 1%				7.81
	TOTAL				788.44
	Add CPOH @ 15%				118.27
	Cost of 10 nos				906.71
	Cost of each				90.67
	Say				90.65

9.97.3 200 x 10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	10.00	480.00	480.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.00	155.00	124.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	393.00	49.12
	TOTAL				657.76
	Add Water Charges @ 1%				6.58
	TOTAL				664.34
	Add CPOH @ 15%				99.65
	Cost of 10 nos				763.99
	Cost of each				76.40
	Say				76.40

9.97.4 150 x 10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	10.00	380.00	380.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.00	155.00	124.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				540.08
	Add Water Charges @ 1%				5.40
	TOTAL				545.48
	Add CPOH @ 15%				81.82
	Cost of 10 nos				627.30
	Cost of each				62.73
	Say				62.75

9.97.5 100 x 10 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	10.00	300.00	300.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.00	155.00	93.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	393.00	31.44
	TOTAL				429.08
	Add Water Charges @ 1%				4.29
	TOTAL				433.37
	Add CPOH @ 15%				65.01
	Cost of 10 nos				498.38
	Cost of each				49.84
	Say				49.85

9.98 Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 pull bolt lock.				
	MATERIAL:				
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.00	50.00	500.00
9999	Carriage of materials	L.S.	6.37	1.70	10.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
	TOTAL				601.08
	Add Water Charges @ 1%				6.01
	TOTAL				607.09
	Add CPOH @ 15%				91.06
	Cost of 10 nos				698.15
	Cost of each				69.82
	Say				69.80

9.99 Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS :1868), transparent or dyed to required colour or shade, with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	10.00	130.00	1300.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	5.46	1.70	9.28
	LABOUR:				
0111	Carpenter 1 st class	day	0.07	393.00	27.51
0114	Beldar	day	0.05	297.00	14.85
	TOTAL				1399.64
	Add Water Charges @ 1%				14.00
	TOTAL				1413.64
	Add CPOH @ 15%				212.05
	Cost of 10 nos				1625.69
	Cost of each				162.57
	Say				162.55

9.100 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.

9.100.1 125 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	10.00	500.00	500.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				576.22
	Add Water Charges @ 1%				5.76
	TOTAL				581.98
	Add CPOH @ 15%				87.30
	Cost of 10 nos				669.28
	Cost of each				66.93
	Say				66.95

9.100.2 100 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	10.00	380.00	380.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				454.67
	Add Water Charges @ 1%				4.55
	TOTAL				459.22
	Add CPOH @ 15%				68.88
	Cost of 10 nos				528.10
	Cost of each				52.81
	Say				52.80

9.100.3 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	10.00	320.00	320.00
0589	Chromium plated Brass screws 20 mm	100 nos	40.00	100.00	40.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	393.00	23.58
	TOTAL				386.67
	Add Water Charges @ 1%				3.87
	TOTAL				390.54
	Add CPOH @ 15%				58.58
	Cost of 10 nos				449.12
	Cost of each				44.91
	Say				44.90

9.101 Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

9.101.1 Single rubber stopper.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
2459	Anodised Aluminium hanging type door stopper	each	10.00	25.00	250.00
0588	Chromium plated Brass screws 25 mm	100 Nos	20.00	120.00	24.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	393.00	11.79
	TOTAL				290.43
	Add Water Charges @ 1%				2.90
	TOTAL				293.33
	Add CPOH @ 15%				44.00
	Cost of 10 nos				337.33
	Cost of each				33.73
	Say				33.75

9.101.2 Twin rubber stopper.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	10.00	65.00	650.00
0588	Chromium plated Brass screws 25 mm	100 Nos	20.00	120.00	24.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	393.00	11.79
	TOTAL				690.43
	Add Water Charges @ 1%				6.90
	TOTAL				697.33
	Add CPOH @ 15%				104.60
	Cost of 10 nos				801.93
	Cost of each				80.19
	Say				80.20

9.102 Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
2465	Anodised Aluminium Casement stay 250 mm	each	10.00	50.00	500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0588	Chromium plated Brass screws 25 mm	100 Nos	40.00	120.00	48.00
9999	Carriage of materials	L.S.	0.91	1.70	1.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
	TOTAL				588.85
	Add Water Charges @ 1%				5.89
	TOTAL				594.74
	Add CPOH @ 15%				89.21
	Cost of 10 nos				683.95
	Cost of each				68.40
	Say				68.40

9.103 Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete .

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 lock.				
	MATERIAL:				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.00	260.00	260.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	1.00	315.00	315.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries including carriage of materials	L.S.	4.55	1.70	7.74
	TOTAL				649.55
	Add Water Charges @ 1%				6.50
	TOTAL				656.05
	Add CPOH @ 15%				98.41
	Cost of each				754.46
	Say				754.45

9.104 Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2m long.				
	MATERIAL:				
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	2.00	50.00	100.00
9999	Labour	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	1.43	1.70	2.43
	TOTAL				107.07
	Add Water Charges @ 1%				1.07
	TOTAL				108.14
	Add CPOH @ 15%				16.22
	Cost of 2 metre				124.36
	Cost of 1 metre				62.18
	Say				62.20

9.105 Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/ sqm(both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.

9.105.1 75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel).				
	MATERIAL:				
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	43.80	240.00	10512.00
	50mm floor and ceiling channel 2x6.00 =12m				
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	12.00	60.00	720.00
	48mm stud-72x34x36x0.5mm				
	(6.00/0.61)+1 = 11x3.65 = 40.15m				
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	40.15	75.00	3011.25
7020	All drive screws (for gypsum board)	100 Nos	392.00	60.00	235.20
	[(3.65/0.30)+1]x11x2 = 308				
	[(6.00/0.30)+1]x2x2=84				
	Total = 392				
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	22.00	50.00	1100.00
	[(6.00/0.61)+1]x2=22				
7048	Rawl plug 50 mm (designation 10 nos)	each	18.00	10.00	180.00
	[(3.65/0.45)+1]x2= 18				
0869	Plaster of Paris	kilogram	19.27	4.00	77.08
	(88/100)x21.9 = 19.27				
0763	Glue	kilogram	4.82	68.00	327.76
	(22/100)x21.90=4.82				
7018	Joint tape roll	roll	0.584	145.00	84.68
	(120m roll)				
	(300/100)x21.90/120 = 0.584 Nos				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.00	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.00	30.00	13.20
9999	Sundries and carriage	L.S.	52.00	1.70	88.40
9999	Sundries scaffolding	L.S.	130.00	1.70	221.00
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3x21.90	day	6.57	393.00	2582.01
0112	Carpenter 2nd class 0.13x21.90	day	2.847	361.00	1027.77
0131	Painter 0.05x21.90	day	1.095	361.00	395.30
0114	Beldar 0.35x21.90	day	7.665	297.00	2276.50
	TOTAL				23631.95
	Add Water Charges @ 1%				236.32
	TOTAL				23868.27
	Add CPOH @ 15%				3580.24
	Cost of 21.9 sqm				27448.51
	Cost of 1 sqm				1253.36
	Say				1253.35

9.105.2 75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel). MATERIAL:				
8717	12.5 mm thick Glass fibre reinforced Gypsum board Gypsum board -2x6.00x3.65=43.80sqm	sqm	43.80	170.00	7446.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 = 12m	metre	12.00	60.00	720.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre 4	0.15	75.00	3011.25
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.00	60.00	235.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+ 1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	68.00	327.76
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos.	roll	0.584	145.00	84.68
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.00	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.00	30.00	13.20
9999	Sundries carriage	L.S.	52.00	1.70	88.40
9999	Sundries scaffolding	L.S.	130.00	1.70	221.00
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3x21.90	day	6.57	393.00	2582.01
0112	Carpenter 2nd class 0.13x21.90	day	2.847	361.00	1027.77
0131	Painter 0.05x21.90	day	1.095	361.00	395.30
0114	Beldar 0.35x21.90	day	7.665	297.00	2276.50
	TOTAL				20565.95
	Add Water Charges @ 1%				205.66
	TOTAL				20771.61
	Add CPOH @ 15%				3115.74
	Cost of 21.9 sqm				23887.35
	Cost of 1 sqm				1090.75
	Say				1090.75

9.105.3 66 mm overall thickness Partition with 8 mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq cm, Bending Strength 100 kg/ sq cm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00x3.65 = 21.9 sqm. (Partition Panel). MATERIAL:				
8699	8 mm thick tapered edge calcium silicate board	sqm	43.80	368.00	10512.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 = 12m	metre	12.00	60.00	720.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65= 40.15m	metre	40.15	75.00	3011.25
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.00	60.00	235.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	68.00	327.76
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	145.00	84.68
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.00	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.00	30.00	13.20
9999	Sundries carriage	L.S.	52.00	1.70	88.40
9999	Sundries scaffolding	L.S.	130.00	1.70	221.00
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3x21.90	day	6.57	393.00	2582.01
0112	Carpenter 2nd class 0.13x21.90	day	2.847	361.00	1027.77
0131	Painter 0.05x21.90	day	1.095	361.00	395.30
0114	Beldar 0.35x21.90	day	7.665	297.00	2276.50
	TOTAL				23631.95
	Add Water Charges @ 1%				236.32
	TOTAL				23868.27
	Add CPOH @ 15%				3580.24
	Cost of 21.9 sqm				27448.51
	Cost of 1 sqm				1253.36
	Say				1550.75

9.105.4 66 mm overall thickness partition using 8 mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS: 14862 with suitable fibre cement screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00 x 3.65 = 21.9 sqm MATERIAL:				
0237	Multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	43.80	250.00	10950.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 =12m	metre	12.00	60.00	720.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	75.00	3011.25
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.00	60.00	235.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	68.00	327.76
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 No	roll	0.584	145.00	84.68
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.00	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.00	30.00	13.20
9999	Sundries carriage	L.S.	52.00	1.70	88.40
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.00	1.70	221.00
0111	Carpenter 1 st class 0.3x21.90	day	6.57	393.00	2582.01
0112	Carpenter 2nd class 0.13x21.90	day	2.847	361.00	1027.77
0131	Painter 0.05x21.90	day	1.095	361.00	395.30
0114	Beldar 0.35x21.90	day	7.665	297.00	2276.50
	TOTAL				24069.95
	Add Water Charges @ 1%				240.70
	TOTAL				24310.65
	Add CPOH @ 15%				3646.60
	Cost of 21.9 sqm				27957.25
	Cost of 1 sqm				1276.59
	Say				1276.60

9.106 Providing and fixing PTMT handles with necessary screws etc. complete.

9.106.1 125x34x24 mm weighing not less than 23 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos. MATERIAL:				
7512	PTMT handle 125x34x24 mm	each	10.00	30.00	300.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR :				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
	TOTAL				340.30
	Add Water Charges @ 1%				3.40
	TOTAL				343.70
	Add CPOH @ 15%				51.56
	Cost of 10 nos.				395.26
	Cost of each				39.53
	Say				39.55

9.106.2 150x34x24 mm weighing not less than 26 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7513	PTMT handle 150x34x24 mm	each	10.00	34.00	340.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR :				
0112	Carpenter 2nd class	day	0.06	361.00	21.66
	TOTAL				380.30
	Add Water Charges @ 1%				3.80
	TOTAL				384.10
	Add CPOH @ 15%				57.62
	Cost of 10 nos.				441.72
	Cost of each				44.17
	Say				44.15

9.107 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.

9.107.1 75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7514	PTMT butt hinges 75x60x10 mm	each	10.00	42.00	420.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of materials	L.S.	1.82	1.70	3.09
	LABOUR :				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				524.36
	Add Water Charges @ 1%				5.24
	TOTAL				529.60
	Add CPOH @ 15%				79.44
	Cost of 10 nos.				609.04
	Cost of each				60.90
	Say				60.90

9.107.2 100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7515	PTMT butt hinges 100x75x10 mm	each	10.00	56.00	560.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR :				
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.09	297.00	26.73
	TOTAL				681.91
	Add Water Charges @ 1%				6.82
	TOTAL				688.73
	Add CPOH @ 15%				103.31
	Cost of 10 nos				792.04
	Cost of each				79.20
	Say				79.20

9.108 Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.

9.108.1 152x42x18 mm weighing not less than 60 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7516	PTMT Tower bolt 152x42x18 mm	each	10.00	65.00	650.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR :				
0112	Carpenter 2nd class	day	0.08	361.00	28.88
	TOTAL				707.52
	Add Water Charges @ 1%				7.08
	TOTAL				714.60
	Add CPOH @ 15%				107.19
	Cost of 10 nos				821.79
	Cost of each				82.18
	Say				82.20

9.108.2 202x42x18 mm weighing not less than 78 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7517	PTMT Tower bolt 202x42x18 mm	each	10.00	80.00	800.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	80.00	40.00	32.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR :				
0112	Carpenter 2nd class	day	0.10	361.00	36.10
	TOTAL				872.74
	Add Water Charges @ 1%				8.73
	TOTAL				881.47
	Add CPOH @ 15%				132.22
	Cost of 10 nos				1013.69
	Cost of each				101.37
	Say				101.35

9.109 Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ten nos.				
	MATERIAL:				
7518	PTMT door catcher 72x42 mm	each	10.00	27.00	270.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	20.00	35.00	7.00
9999	Carriage of materials	L.S.	2.73	1.70	4.64
	LABOUR :				
0111	Carpenter 1 st class	day	0.03	393.00	11.79
	TOTAL				293.43
	Add Water Charges @ 1%				2.93
	TOTAL				296.36
	Add CPOH @ 15%				44.45
	Cost of 10 nos				340.81
	Cost of each				34.08
	Say				34.10

9.110 Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hallock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support, complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a bamboo jaffery of size 1.00mx2.10m = 2.10sqm				
	MATERIAL:				
	Bamboo 25mm of 100/ 2.50 = 40 Nos				
	Half cut off = 40/2 =20 Nos. x 2.10 = 42.00m				
	Add wastage @ 15% = 6.30 m				
	Total = 48.30m				
	Rate of Bamboo 25 mm dia 2.5 metre long for one score i.e. 20nos is Rs. 192				
	for 48.30m qty 48.30 /(2.5 * 20) = 0.966				
0305	Bamboo 25 mm dia 2.5 metre long	score	0.966	350.00	338.10
9999	Carriage of bamboo	L.S.	4.83	1.70	8.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2466	Hollock wood in scantling 3 Nos. (1.00 x 0.05 x 0.025) = 0.00375 cum Add wastage @ 5% = 0.00019 cum Total = 0.00394 cum or 3.94 cudm	10 cudm	3.94	325.00	128.05
2204	Carriage of timber	cum	0.00394	121.88	0.48
9999	Nails and wire	L.S.	20.25	1.70	34.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	10.05	1.70	17.08
	TOTAL				690.84
	Add Water Charges @ 1%				6.91
	TOTAL				697.75
	Add CPOH @ 15%				104.66
	Cost of 2.1 sqm				802.41
	Cost of 1 sqm				382.10
	Say				382.10

9.111 Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.

9.111.1 50x50 mm (base and height).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for beading = 5.00 m. MATERIAL: Teak wood 2nd class in plan ks 5.00x.05x. 05/2 = 0.00625 cum Add wastage @10% = 0.00063 Total = 0.00688 cum say 6.88 cudm				
1190	Second class teak wood in planks 10 cu	dm	6.88	725.00	498.80
2204	Carriage of timber	cum	0.00688	121.88	0.84
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	6.00	50.00	3.00
	Priming coat Area 5.0 x (.05 +.05) = 0.50 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.50	30.75	15.38 A
	LABOUR: For plaining, fixing & making design				
0111	Carpenter 1 st class	day	0.75	393.00	294.75
	TOTAL				812.77
	Add Water Charges @ 1% except on A i.e on (812.77 - 15.38 =) 797.39				7.97
	TOTAL				820.74
	Add CPOH @ 15% except on A i.e on (820.74 - 15.38 =) 805.36				120.80
	Cost of 5 metre				941.54
	Cost of 1 metre				188.31
	Say				188.30

9.112 Providing and fixing 2nd class teak wood lipping / moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws / nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10. 00 m.				
	MATERIAL:				
	Teak wood 2nd class in plan ks 5.00x.05x. 05/2 = 0.00625 cum				
	Add wastage @10% = 0.00063				
	Total = 0.00688 cum say 6.88 cudm				
8719	2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	10.00	30.00	300.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.25	297.00	74.25
	TOTAL				464.50
	Add Water Charges @ 1%				4.65
	TOTAL				469.15
	Add CPOH @ 15%				70.37
	Cost of 10 metre				539.52
	Cost of 1 metre				53.95
	Say				53.95

9.113 Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin- charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No.				
	MATERIAL:				
8716	100 mm mortice lock with 6 levers for aluminium door	each	1.00	330.00	330.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.13	393.00	51.09
9999	Sundries (screws, carriage etc.)	L.S.	2.60	1.70	4.42
	TOTAL				385.51
	Add Water Charges @ 1%				3.86
	TOTAL				389.37
	Add CPOH @ 15%				58.41
	Cost of each				447.78
	Say				447.80

9.114 Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete .

9.114.1 Triple strip vertical type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No.				
	MATERIAL:				
8714	Magnetic catcher triple strip vertical type	each	1.00	20.00	20.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.70	4.42
	TOTAL				24.42
	Add Water Charges @ 1%				0.24
	TOTAL				24.66
	Add CPOH @ 15%				3.70
	Cost of each				28.36
	Say				28.35

9.114.2 Double strip (horizontal type).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL:				
8715	Magnetic catcher double strip horizontal type	each	1.00	15.00	15.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.70	4.42
	TOTAL				19.42
	Add Water Charges @ 1%				0.19
	TOTAL				19.61
	Add CPOH @ 15%				2.94
	Cost of each				22.55
	Say				22.55

9.115 Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sets.				
	MATERIAL:				
8703	Telescopic drawer channels 300 mm long	set	10.00	140.00	1400.00
9999	Carriage	L.S.	19.50	1.70	33.15
9999	Sundries including screws and fixing charges.	L.S.	100.10	1.70	170.17
	TOTAL				1603.32
	Add Water Charges @ 1%				16.03
	TOTAL				1619.35
	Add CPOH @ 15%				242.90
	Cost of 10 sets				1862.25
	Cost of one set				186.23
	Say				186.20

9.116 Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No.				
	MATERIAL:				
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/cabinets shutter	each	1.00	8.00	8.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for fixing	L.S.	1.04	1.70	1.77
	TOTAL				9.77
	Add Water Charges @ 1%				0.10
	TOTAL				9.87
	Add CPOH @ 15%				1.48
	Cost of each				11.35
	Say				11.35

9.117 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ±1mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge.

9.117.1 Extruded section profile size 48x40 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre				
	MATERIAL:				
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	150.00	750.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	4.68	1.70	7.96
	TOTAL				859.06
	Add Water Charges @ 1%				8.59
	TOTAL				867.65
	Add CPOH @ 15%				130.15
	Cost of 5 metre				997.80
	Cost of 1 metre				199.56
	Say				199.55

9.117.2 Extruded section profile size 42x50 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	140.00	700.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	4.68	1.70	7.96
	TOTAL				809.06
	Add Water Charges @ 1%				8.09
	TOTAL				817.15
	Add CPOH @ 15%				122.57
	Cost of 5 metre				939.72
	Cost of 1 metre				187.94
	Say				187.95

9.118 Providing and fixing to existing door frames.

9.118.1 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish including carriage	sqm	2.38	2150.00	5117.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5421.21
	Add Water Charges @ 1%				54.21
	TOTAL				5475.42
	Add CPOH @ 15%				821.31
	Cost of 2.38 sqm				6296.73
	Cost of 1 sqm				2645.68
	Say				2645.70

9.118.2 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer -in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x1.08m = 2.38 sqm.				
	MATERIAL:				
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.38	2250.00	5355.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5659.21
	Add Water Charges @ 1%				56.59
	TOTAL				5715.80
	Add CPOH @ 15%				857.37
	Cost of 2.38 sqm				6573.17
	Cost of 1 sqm				2761.84
	Say				2761.85

9.118.3 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x1.08m = 2.38 sqm				
	MATERIAL:				
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2.38	2150.00	5117.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5421.21
	Add Water Charges @ 1%				54.21
	TOTAL				5475.42
	Add CPOH @ 15%				821.31
	Cost of 2.38 sqm				6296.73
	Cost of 1 sqm				2645.68
	Say				2645.70

9.119 Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door frame of 5 metre.				
	MATERIAL:				
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	5.00	350.00	1750.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	7.80	1.70	13.26
	TOTAL				1864.36
	Add Water Charges @ 1%				18.64
	TOTAL				1883.00
	Add CPOH @ 15%				282.45
	Cost of 5 metre				2165.45
	Cost of 1 metre				433.09
	Say				433.10

9.120 Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7

mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.

9.120.1 30 mm thick plain PVC door shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2.38	2150.00	5117.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5481.61
	Add Water Charges @ 1%				54.82
	TOTAL				5536.43
	Add CPOH @ 15%				830.46
	Cost of 2.38 sqm				6366.89
	Cost of 1 sqm				2675.16
	Say				2675.15

9.120.2 30 mm thick pre laminated PVC door shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2.38	2550.00	6069.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				6433.61
	Add Water Charges @ 1%				64.34
	TOTAL				6497.95
	Add CPOH @ 15%				974.69
	Cost of 2.38 sqm				7472.64
	Cost of 1 sqm				3139.76
	Say				3139.75

9.121 Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness.The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door frame of 5 metre.				
	MATERIAL:				
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	5.00	380.00	1900.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	7.80	1.70	13.26
	TOTAL				2014.36
	Add Water Charges @ 1%				20.14
	TOTAL				2034.50
	Add CPOH @ 15%				305.18
	Cost of 5 metre				2339.68
	Cost of 1 metre				467.94
	Say				467.95

9.122 Providing and fixing to existing door frames.

9.122.1 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	2.38	1850.00	4403.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				4767.61
	Add Water Charges @ 1%				47.68
	TOTAL				4815.29
	Add CPOH @ 15%				722.29
	Cost of 2.38 sqm				5537.58
	Cost of 1 sqm				2326.71
	Say				2326.70

9.122.2 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2.38	2150.00	5117.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5481.61
	Add Water Charges @ 1%				54.82
	TOTAL				5536.43
	Add CPOH @ 15%				830.46
	Cost of 2.38 sqm				6366.89
	Cost of 1 sqm				2675.16
	Say				2675.15

9.123 Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door frame of 5 metre				
	MATERIAL:				
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	5.00	290.00	1450.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	7.80	1.70	13.26
	TOTAL				1564.36
	Add Water Charges @ 1%				15.64
	TOTAL				1580.00
	Add CPOH @ 15%				237.00
	Cost of 5 metre				1817.00
	Cost of 1 metre				363.40
	Say				363.40

9.124 Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.

9.124.1 Non decorative finish.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door frame of 5 metre.				
	MATERIAL:				
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2.38	2108.00	5017.04
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5381.65
	Add Water Charges @ 1%				53.82
	TOTAL				5435.47
	Add CPOH @ 15%				815.32
	Cost of 2.38 sqm				6250.79
	Cost of 1 sqm				2626.38
	Say				2626.40

9.124.2 Decorative finish (both side wood grained finish).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.08m=2.38 sqm.				
	MATERIAL:				
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2.38	2650.00	6307.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				6671.61
	Add Water Charges @ 1%				66.72
	TOTAL				6738.33
	Add CPOH @ 15%				1010.75
	Cost of 2.38 sqm				7749.08
	Cost of 1 sqm				3255.92
	Say				3255.90

9.125 Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.0x0.3m = 0.3 sqm.				
	MATERIAL:				
8006	Factory made PVC rigid foam sheet 1 mm thick PVC rigid foam sheet1mm thick = 0.30 sqm Add wastage @ 10% = 0.03 sqm Total = 0.33 sqm	sqm	0.33	185.00	61.05
9999	Rubber adhesive	L.S.	21.84	1.70	37.13
	LABOUR:				
0111	Carpenter 1 st class	day	0.11	393.00	43.23
0114	Beldar	day	0.14	297.00	41.58
0130	Mistry	day	0.02	393.00	7.86
	TOTAL				190.85
	Add Water Charges @ 1%				1.91
	TOTAL				192.76
	Add CPOH @ 15%				28.91
	Cost of 0.3 sqm				221.67
	Cost of 1 sqm				738.90
	Say				738.90

9.126 Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.

9.126.1 Marine plywood conformingto IS : 710.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3rd panelling...200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm.				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm				
8724	12 mm thick marine plywood conforming to IS: 710	sqm	0.80	850.00	680.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				914.61
	Add Water Charges @ 1%				9.15
	TOTAL				923.76
	Add CPOH @ 15%				138.56
	Cost of 0.67 sqm				1062.32
	Cost of 1 sqm				1585.55
	Say				1585.55

9.126.2 Fire retardant plywood conforming to IS : 5509.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door with 2/3rd paneling 200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm				
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	0.80	880.00	704.00
9999	Carriage of plywood	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				938.61
	Add Water Charges @ 1%				9.39
	TOTAL				948.00
	Add CPOH @ 15%				142.20
	Cost of 0.67 sqm				1090.20
	Cost of 1 sqm				1627.16
	Say				1627.15

9.127 Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.

9.127.1 1.5 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.00 sqm.				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8726	1.5 mm thick decorative laminated sheet	sqm	5.50	490.00	2695.00
9999	Adhesive	L.S.	195.00	1.70	331.50
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries i/c nails etc.	L.S.	52.00	1.70	88.40
	TOTAL				3459.90
	Add Water Charges @ 1%				34.60
	TOTAL				3494.50
	Add CPOH @ 15%				524.17
	Cost of 5 sqm				4018.67
	Cost of 1 sqm				803.73
	Say				803.75

9.127.2 1.0 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.00 sqm.				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8727	1.0 mm thick decorative laminated sheet	sqm	5.50	380.00	2090.00
9999	Adhesive	L.S.	195.00	1.70	331.50
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries i/c nails etc.	L.S.	52.00	1.70	88.40
	TOTAL				2854.90
	Add Water Charges @ 1%				28.55
	TOTAL				2883.45
	Add CPOH @ 15%				432.52
	Cost of 5 sqm				3315.97
	Cost of 1 sqm				663.19
	Say				663.20

9.128 Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a chajja 0.90 x 0.60 = 0.54 sqm.				
	MATERIAL:				
8713	Fiber glass reinforced plastic chajja including accessories	sqm	0.54	3600.00	1944.00
9999	Carriage	L.S.	26.00	1.70	44.20
9999	fixing charges including sundries.	L.S.	143.00	1.70	243.10
	TOTAL				2231.30
	Add Water Charges @ 1%				22.31
	TOTAL				2253.61
	Add CPOH @ 15%				338.04
	Cost of 0.54 sqm				2591.65
	Cost of 1 sqm				4799.35
	Say				4799.35

9.129 Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS : 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.00m = 2.20sqm.				
	MATERIAL:				
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	2.20	940.00	2068.00
9999	Carriage	L.S.	29.64	1.70	50.39
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	40.00	176.00
0685	Oxidised mild steel screws 25 mm	100 Nos	125.00	45.00	56.25
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
0130	Mistry	day	0.07	393.00	27.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	40.00	280.00
	TOTAL				3003.15
	Add Water Charges @ 1%				30.03
	TOTAL				3033.18
	Add CPOH @ 15%				454.98
	Cost of 2.2 sqm				3488.16
	Cost of 1 sqm				1585.53
	Say				1585.55

9.130 Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.

9.130.1 With decorative veneering on one side and commercial veneering on other side.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.00m = 2.20sqm.				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.20	480.00	1056.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	2.20	260.00	572.00
9999	Carriage	L.S.	29.64	1.70	50.39
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	40.00	176.00
0685	Oxidised mild steel screws 25 mm	100 Nos	125.00	45.00	56.25
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
0130	Mistry	day	0.07	393.00	27.51
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	40.00	280.00
	TOTAL				2563.15
	Add Water Charges @ 1%				25.63
	TOTAL				2588.78
	Add CPOH @ 15%				388.32
	Cost of 2.2 sqm				2977.10
	Cost of 1 sqm				1353.23
	Say				1353.25

9.130.2 With non decorative veneering on both sides.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.00m = 2.20sqm.				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.20	480.00	1056.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	2.20	170.00	374.00
9999	Carriage	L.S.	29.64	1.70	50.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	40.00	176.00
0685	Oxidised mild steel screws 25 mm	100 Nos	125.00	45.00	56.25
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
0130	Mistry	day	0.07	393.00	27.51
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	40.00	280.00
	TOTAL				2365.15
	Add Water Charges @ 1%				23.65
	TOTAL				2388.80
	Add CPOH @ 15%				358.32
	Cost of 2.2 sqm				2747.12
	Cost of 1 sqm				1248.69
	Say				1248.70

9.131 Providing and fixing factory made shutters of pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS : 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).

9.131.1 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.10 sqm (Door size 2.1 x 1.00m).				
	MATERIAL:				
	Prelaminated particle board = 2.10sqm. +				
	Add for wastage @ 5% = 0.11 sqm.				
	Total = 2.21sqm				
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	2.21	830.00	1834.30
7443	Aluminium single cleat of size 30x32x3 mm	each	4.00	14.00	56.00
7444	Aluminium grip strip of size 50x12x2 mm	each	8.00	11.00	88.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.15	140.00	21.00
9999	Carriage of materials including loading and unloading	L.S.	19.50	1.70	33.15
9999	Sundries and screw etc.	L.S.	39.00	1.70	66.30
	LABOUR:				
0112	Carpenter 2nd class	day	0.27	361.00	97.47
0114	Beldar	day	0.30	297.00	89.10
	TOTAL				2285.32
	Add Water Charges @ 1%				22.85
	TOTAL				2308.17
	Add CPOH @ 15%				346.23
	Cost of 2.1 sqm				2654.40
	Cost of 1 sqm				1264.00
	Say				1264.00

9.132 Providing and fixing aluminum U beading of required size to Pre laminated / flush door shutter, including fixing etc. complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 kg.				
	MATERIAL:				
	Aluminum U beading = 1.00kg +				
	Add 10% wastage = 0.10				
	Total = 1.10kg				
7449	Aluminium U beading	kilogram	1.10	220.00	242.00
9999	Anodized 15 micron	L.S.	65.00	1.70	110.50
9999	Sundries including screws, fixing, carriage etc.	L.S.	13.00	1.70	22.10
	TOTAL				374.60
	Add Water Charges @ 1%				3.75
	TOTAL				378.35
	Add CPOH @ 15%				56.75
	Cost of 1 kg				435.10
	Say				435.10

9.133 Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.

9.133.1 Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/sqcm, Bending strength 100 kg/sqcm.

9.133.1.1 10 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.66 mx 3.05 m =11.16 sqm.				
	MATERIAL:				
	Calcium silicate board 10mm thick.= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm.				
	Total = 12.28 sqm				
8700	10 mm thick calcium silicate board	sqm	12.28	390.00	4789.20
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	40.00	786.40
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	2.00	84.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	75.00	132.00
9999	Jointing compound	L.S.	20.80	1.70	35.36
7018	Joint tape roll	roll	0.19	145.00	27.55
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.00	1.70	88.40
9999	Carriage of materials	L.S.	26.00	1.70	44.20
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	393.00	1493.40
0114	Beldar	day	4.60	297.00	1366.20
	TOTAL				9086.71
	Add Water Charges @ 1%				90.87
	TOTAL				9177.58
	Add CPOH @ 15%				1376.64
	Cost of 11.16 sqm				10554.22
	Cost of 1 sqm				945.72
	Say				945.70

9.133.2 Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw.

9.133.2.1 8 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.66 m x 3.05 m = 11.16 sqm.				
	MATERIAL:				
	Multipurpose non asbestos fibre cement board 8mm thick.= 11.16 sqm				
	Add wastage @ 10% =1.12 sqm. Total = 12.28 sqm				
0237	Multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	12.28	250.00	3070.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	40.00	786.40
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	75.00	132.00
9999	Jointing compound	L.S.	20.80	1.70	35.36
7018	Joint tape roll	roll	0.19	145.00	27.55
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.00	1.70	88.40
9999	Carriage of materials	L.S.	26.00	1.70	44.20
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	393.00	1493.40
0114	Beldar	day	4.60	297.00	1366.20
	TOTAL				7367.51
	Add Water Charges @ 1%				73.68
	TOTAL				7441.19
	Add CPOH @ 15%				1116.18
	Cost of 11.16 sqm				8557.37
	Cost of 1 sqm				766.79
	Say				766.80

9.133.3 Gypsum board conforming to IS: 2095 Part - I.

9.133.3.1 12.5 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.66 m x 3.66 m - 11.16 sqm. MATERIAL: Glass fibre reinforced gypsum board 12.5 mm thick.= 11.16 sqm Add wastage @ 10% = 1.12 sqm Total = 12.28 sqm				
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	12.28	170.00	2087.60
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	40.00	786.40
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	75.00	132.00
9999	Jointing compound	L.S.	20.80	1.70	35.36
7018	Joint tape roll	roll	0.19	145.00	27.55
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	1.70	88.40
9999	Carriage of materials	L.S.	26.00	1.70	44.20
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	393.00	1493.40
0114	Beldar	day	4.60	297.00	1366.20
	TOTAL				6385.11
	Add Water Charges @ 1%				63.85
	TOTAL				6448.96
	Add CPOH @ 15%				967.34
	Cost of 11.16 sqm				7416.30
	Cost of 1 sqm				664.54
	Say				664.55

9.134 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws.

9.134.1 35 mm thick shutters.

9.134.1.1 with ISI marked M.S. pressed butt hinges bright finished of required size.

9.134.1.1.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Second Class Teak wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5xl9.7x3.5cm = 0.0152 cum.+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Beadings (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.40	725.00	3726.50
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				6236.83
	Add Water Charges @ 1%				62.37
	TOTAL				6299.20
	Add CPOH @ 15%				944.88
	Cost of 2.16 sqm				7244.08
	Cost of 1 sqm				3353.74
	Say				3353.75

9.134.1.1.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m = 2.16sqm. MATERIAL: Hollock wood. Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5xl9.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Grand Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	370.00	1901.80
2204	Carriage of timber	cum	0.0514	121.88	6.26
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
9999	Chemical Treatment	L.S.	8.97	1.70	15.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4464.90
	Add Water Charges @ 1%				44.65
	TOTAL				4509.55
	Add CPOH @ 15%				676.43
	Cost of 2.16 sqm				5185.98
	Cost of 1 sqm				2400.92
	Say				2400.90

9.134.1.1.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham Wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3341.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5888.85
	Add Water Charges @ 1%				58.89
	TOTAL				5947.74
	Add CPOH @ 15%				892.16
	Cost of 2.16 sqm				6839.90
	Cost of 1 sqm				3166.62
	Say				3166.60

9.134.1.2 With ISI marked stainless steel butt hinges of required size.

9.134.1.2.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Second class teak wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1190	Second class teak wood in planks Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	10 cudm	51.40	725.00	3726.50
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				6423.43
	Add Water Charges @ 1%				64.23
	TOTAL				6487.66
	Add CPOH @ 15%				973.15
	Cost of 2.16 sqm				7460.81
	Cost of 1 sqm				3454.08
	Say				3454.10

9.134.1.2.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Hollock wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	370.00	1901.80
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
9999	Chemical treatment Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	L.S.	8.97	1.70	15.25
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4651.50
	Add Water Charges @ 1%				46.52
	TOTAL				4698.02
	Add CPOH @ 15%				704.70
	Cost of 2.16 sqm				5402.72
	Cost of 1 sqm				2501.26
	Say				2501.25

9.134.1.2.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm.				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3.5 cm = 0.0152 cum. +				
	Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.0464 cum. +				
	add for wastage @ 10% = 0.005 cum.				
	=0.0514 cum.				
	say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3341.00
2504	Kiln seasoning of timber	cum	0.0514	730.00	37.52
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
2204	Carriage of timber	cum	0.0514	121.88	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.05	297.00	311.85
0130	Mistry	day	0.105	393.00	41.26
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				6075.45
	Add Water Charges @ 1%				60.75
	TOTAL				6136.20
	Add CPOH @ 15%				920.43
	Cost of 2.16 sqm				7056.63
	Cost of 1 sqm				3266.96
	Say				3266.95

9.134.2 30 mm thick shutters.

9.134.2.1 with ISI marked M.S. pressed butt hinges bright finished of required size.

9.134.2.1.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Teak wood (2nd class) Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.44 cum. say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	725.00	3190.00
2204	Carriage of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.044	121.88	5.36
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5607.22
	Add Water Charges @ 1%				56.07
	TOTAL				5663.29
	Add CPOH @ 15%				849.49
	Cost of 2.16 sqm				6512.78
	Cost of 1 sqm				3015.18
	Say				3015.20

9.134.2.1.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Hollock wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.44 cum. say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	370.00	1628.00
2204	Carriage of timber	cum	0.044	121.88	5.36
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
9999	Chemical treatment	L.S.	8.97	1.70	15.25
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4092.59
	Add Water Charges @ 1%				40.93
	TOTAL				4133.52
	Add CPOH @ 15%				620.03
	Cost of 2.16 sqm				4753.55
	Cost of 1 sqm				2200.72
	Say				2200.70

9.134.2.1.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. +				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add for wastage @ 10% = 0.004 cum. =0.44 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
2204	Carriage of timber	cum	0.044	121.88	5.36
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.00	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5309.34
	Add Water Charges @ 1%				53.09
	TOTAL				5362.43
	Add CPOH @ 15%				804.36
	Cost of 2.16 sqm				6166.79
	Cost of 1 sqm				2855.00
	Say				2855.00

9.134.2.2 With ISI marked stainless steel butt hinges of required size.

9.134.2.2.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Teak wood (2nd class) Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	725.00	3190.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.044	121.88	5.36
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5793.82
	Add Water Charges @ 1%				57.94
	TOTAL				5851.76
	Add CPOH @ 15%				877.76
	Cost of 2.16 sqm				6729.52
	Cost of 1 sqm				3115.52
	Say				3115.50

9.134.2.2.2 Kiln seasoned and chemically treated hollock wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Hollock wood Styles 4 x 209 x 9.5 x 3.5 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	370.00	1628.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
9999	Chemical treatment	L.S.	8.97	1.70	15.25
2204	Carriage of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.044	121.88	5.36
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				4279.19
	Add Water Charges @ 1%				42.79
	TOTAL				4321.98
	Add CPOH @ 15%				648.30
	Cost of 2.16 sqm				4970.28
	Cost of 1 sqm				2301.06
	Say				2301.05

9.134.2.2.3 Kiln seasoned selected class of sheesham wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm. MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	730.00	32.12
2204	Carriage of timber	cum	0.044	121.88	5.36
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	830.00	1170.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	240.00	144.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	130.00	26.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	200.00	96.00
8214	Stainless steel screws 20 mm	100 Nos	8.00	100.00	8.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	393.00	471.60
0112	Carpenter 2nd class	day	0.80	361.00	288.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.00	297.00	297.00
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries	L.S.	33.80	1.70	57.46
	TOTAL				5495.94
	Add Water Charges @ 1%				54.96
	TOTAL				5550.90
	Add CPOH @ 15%				832.63
	Cost of 2.16 sqm				6383.53
	Cost of 1 sqm				2955.34
	Say				2955.35

9.135 Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.

9.135.1 With 2nd class teak wood beading 62X19 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x 110cm = 1.54sqm. MATERIAL: Wire gauge - 20x60mm mesh 3.2mm with = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	830.00	1402.70
9999	Carriage of wire gauge	L.S.	1.82	1.70	3.09
	Second class teak wood beading 5mx62mmx19mm=0.0059 cum+ Add wastage @ 10% = 0.00059 cudm. Total=0.00649 cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.00	725.00	435.00
2204	Carriage of timber	cum	0.006	121.88	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				2068.49
	Add Water Charges @ 1%				20.68
	TOTAL				2089.17
	Add CPOH @ 15%				313.38
	Cost of 1.54 sqm				2402.55
	Cost of 1 sqm				1560.10
	Say				1560.10

9.135.2 With 12 mm mild steel U beading.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window of size 140x 110cm = 1.54sqm. MATERIAL: Wire gauge - 20x60mm mesh 3.2mm with = 1.4x1.1m = 1.54sqm.+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 10% = 0.15sqm. Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	830.00	1402.70
9999	Carriage of wire gauge	L.S.	1.82	1.70	3.09
7349	12 mm M.S. 'U' beading	metre	5.00	15.00	75.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	361.00	119.13
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				1707.76
	Add Water Charges @ 1%				17.08
	TOTAL				1724.84
	Add CPOH @ 15%				258.73
	Cost of 1.54 sqm				1983.57
	Cost of 1 sqm				1288.03
	Say				1288.05

9.136 Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermuculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumuscent fire seal strip of size 10x4 mm (minimum) alround the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3300/2750mm Door (9.10 metre length).				
	MATERIAL:				
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	9.10	1000.00	9100.00
9999	Labour	L.S.	130.00	1.70	221.00
9999	Sundries and carriage	L.S.	4.23	1.70	7.19
	TOTAL				9328.19
	Add Water Charges @ 1%				93.28
	TOTAL				9421.47
	Add CPOH @ 15%				1413.22
	Cost of 9.1 metre				10834.69
	Cost of 1 metre				1190.63
	Say				1190.65

9.137 Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2)

duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.50 sqm (Door size-1710x2050 mm).				
	MATERIAL:				
8739	Fire rated door shuttere made with 16 SWG G.I. sheet(60 minutes) without panel	sqm	3.50	5250.00	18375.00
9999	Labour	L.S.	180.00	1.70	306.00
9999	Sundries and carriage	L.S.	10.00	1.70	17.00
	TOTAL				18698.00
	Add Water Charges @ 1%				186.98
	TOTAL				18884.98
	Add CPOH @ 15%				2832.75
	Cost of 3.5 sqm				21717.73
	Cost of 1 sqm				6205.07
	Say				6205.05

9.138 Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m2), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.

9.138.1 With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.36 sqm (Door size 3300/2750mm) (Glazing area).				
	MATERIAL:				
	Glazing area-2x0.70x2.05=2.87 m2				
	1x1.70x0.60=1.02 m2				
	2x0.69x1.79=2.47 m2				
	Total =6.36 m2				
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	6.36	21000.00	133560.00
	G.I.'U' beading-2x2x0.70=2.80 m				
	2x2x2.05=8.20 m				
	2x1x1.70=3.40 m				
	2x1x0.60=1.20 m				
	2x2x0.69 =2.76 m				
	2x2x1.79=7.16 m				
	Total=25.52 m				
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m2) with ceramic tape of suitable thickness and fire resistant primer coating	metre	25.52	260.00	6635.20
8740	Fire seal Putty	kg	3.00	700.00	2100.00
8743	Matrix Mineral Board	metre	76.56	65.00	4976.40
	3x25.52m=76.56 meter				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour	L.S.	180.00	1.70	306.00
9999	Sundries and carriage	L.S.	10.00	1.70	17.00
	TOTAL				147594.60
	Add Water Charges @ 1%				1475.95
	TOTAL				149070.55
	Add CPOH @ 15%				22360.58
	Cost of 6.36 sqm				171431.13
	Cost of 1 sqm				26954.58
	Say				26954.60

9.139 Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- incharge, all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No.				
	MATERIAL:				
8744	Panic Bar / latch (Double point)	each	1.00	5000.00	5000.00
	Labour for fixing				
0111	Carpenter 1 st class	day	0.17	393.00	66.81
9999	Sundries (screws and carriage)	L.S.	3.64	1.70	6.19
	TOTAL				5073.00
	Add Water Charges @ 1%				50.73
	TOTAL				5123.73
	Add CPOH @ 15%				768.56
	Cost of 1 Nos				5892.29
	Say				5892.30

9.140 Providing and fixing plain lining with necessary screws/nuts & bolts/nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-incharge (Frame work shall be paid for separately).

9.140.1 12 mm thick commercial ply conforming to IS : 1328 BWR type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2413	12 mm commercial ply	sqm	11.00	580.00	6380.00
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	30.75	307.50 A
9999	Sundries and screws etc.	L.S.	40.10	1.70	68.17
	LABOUR:				
0156	Carpenter (average)	day	1.28	377.00	482.56
0114	Beldar	day	1.43	297.00	424.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries and carriage	L.S.	33.56	1.70	57.05
	TOTAL				7719.99
	Add Water Charges @ 1% except on A i.e on (7,719.99 - 307.50 =) 7,412.49				74.12
	TOTAL				7794.11
	Add CPOH @ 15% except on A i.e on (7,794.11 - 307.50 =) 7,486.61				1122.99
	Cost of 10 sqm				8917.10
	Cost of 1 sqm				891.71
	Say				891.70

9.141 Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self taping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door frame of 5 metre.				
	MATERIAL:				
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	5.00	490.00	2450.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	11.65	1.70	19.80
	TOTAL				2570.90
	Add Water Charges @ 1%				25.71
	TOTAL				2596.61
	Add CPOH @ 15%				389.49
	Cost of 5 metre				2986.10
	Cost of 1 metre				597.22
	Say				597.20

9.142 35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded soild PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each

corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.

9.142.1 Non decorative finish (matt finish).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.08m =2.38 sqm.				
	MATERIAL:				
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2.38	2100.00	4998.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	30.35	1.70	51.60
	TOTAL				5379.60
	Add Water Charges @ 1%				53.80
	TOTAL				5433.40
	Add CPOH @ 15%				815.01
	Cost of 2.38 sqm				6248.41
	Cost of 1 sqm				2625.38
	Say				2625.40

9.142.2 Decorative finish (wood grained finish).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 2.20x 1.08m=2.38 sqm.				
	MATERIAL:				
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2.38	2600.00	6188.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mmX1.9 mm	10 Nos	4.00	85.00	34.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.00	30.00	2.40
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	30.35	1.70	51.60
	TOTAL				6569.60
	Add Water Charges @ 1%				65.70
	TOTAL				6635.30
	Add CPOH @ 15%				995.30
	Cost of 2.38 sqm				7630.60
	Cost of 1 sqm				3206.13
	Say				3206.15

9.143 Providing and Fixing factory made uPVC door frame, made of uPVC exturded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm) , corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineerin- charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	5.00	330.00	1650.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	4.68	1.70	7.96
	TOTAL				1759.06
	Add Water Charges @ 1%				17.59
	TOTAL				1776.65
	Add CPOH @ 15%				266.50
	Cost of 5 metre				2043.15
	Cost of 1 metre				408.63
	Say				408.65

9.144 Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (± 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening

with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x1.08m = 2.38 sqm.				
	MATERIAL:				
8746	37 mm thick Factory made shutter with and panels of PVC extruded section style, rails in white or grey finish i/c carriage	sqm	2.38	2350.00	5593.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				5897.21
	Add Water Charges @ 1%				58.97
	TOTAL				5956.18
	Add CPOH @ 15%				893.43
	Cost of 2.38 sqm				6849.61
	Cost of 1 sqm				2877.99
	Say				2878.00

9.145 Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	5.00	350.00	1750.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	377.00	56.55
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	4.68	1.70	7.96
	TOTAL				1859.06
	Add Water Charges @ 1%				18.59
	TOTAL				1877.65
	Add CPOH @ 15%				281.65
	Cost of 5 metre				2159.30
	Cost of 1 metre				431.86
	Say				431.85

9.146 Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door shutter 2.20x 1.08m = 2.38 sqm.				
	MATERIAL:				
8748	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish	sqm	2.38	2450.00	5831.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	377.00	150.80
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries	L.S.	20.36	1.70	34.61
	TOTAL				6135.21
	Add Water Charges @ 1%				61.35
	TOTAL				6196.56
	Add CPOH @ 15%				929.48
	Cost of 2.38 sqm				7126.04
	Cost of 1 sqm				2994.13
	Say				2994.15

9.147 Providing and Fixing factory made uPVC white colour casement/sliding window/ door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge (Glazing, hardware hinges and fitting etc. to be paid separately).

Note:- Each member of window to be measured separately with clear length.

9.147.1 Casement Window (Outward/Inward opening) with hinge System.

9.147.1.1 Frame (50 mm x 50 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	1.05	165.00	173.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	1.05	50.00	52.50
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
7390	Neoprene/EPDM rubber gasket	metre	1.05	25.00	26.25
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.70	17.00
	TOTAL				346.50
	Add Water Charges @ 1%				3.46
	TOTAL				349.96
	Add CPOH @ 15%				52.49
	Cost of 1 metre				402.45
	Say				402.45

9.147.1.2 Sash (Style and Rail) (62 mm x 34 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	1.05	150.00	157.50
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	1.05	50.00	52.50
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
7390	Neoprene/EPDM rubber gasket	metre	1.05	25.00	26.25
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05				
	= 1.05 metre				
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.70	17.00
	TOTAL				330.75
	Add Water Charges @ 1%				3.31
	TOTAL				334.06
	Add CPOH @ 15%				50.11
	Cost of 1 metre				384.17
	Say				384.15

9.147.1.3 Mullion (intermediate Section) (66 mm x 50 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	185.00	194.25
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.70	17.00
	TOTAL				367.50
	Add Water Charges @ 1%				3.68
	TOTAL				371.18
	Add CPOH @ 15%				55.68
	Cost of 1 metre				426.86
	Say				426.85

9.147.1.4 'T' Profile (one vertical length in between two shutters) (24 mm x 34.5 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two	metre	1.05	50.00	52.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	shutters) (24 mm x 34.5 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	393.00	7.86
0114	Beldar	day	0.02	297.00	5.94
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				79.90
	Add Water Charges @ 1%				0.80
	TOTAL				80.70
	Add CPOH @ 15%				12.10
	Cost of 1 metre				92.80
	Say				92.80

9.147.1.5 Glazing bead (12 mm x 18 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre. MATERIAL:				
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	393.00	7.86
0114	Beldar	day	0.02	297.00	5.94
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				106.15
	Add Water Charges @ 1%				1.06
	TOTAL				107.21
	Add CPOH @ 15%				16.08
	Cost of 1 metre				123.29
	Say				123.30

9.147.2 Casement Window (With friction hinge & outward opening).

9.147.2.1 Casement Frame (67 mm x 62 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8765	uPVC extruded profile casement window Frame (67 mm x 62 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	235.00	246.75
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.70	17.00
	TOTAL				393.75
	Add Water Charges @ 1%				3.94
	TOTAL				397.69
	Add CPOH @ 15%				59.65
	Cost of 1 metre				457.34
	Say				457.35

9.147.2.2 Casement Window Sash/Mullion (67mm x 75mm) (style, rail and intermediate section).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8766	uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm)(Style,rail and intermediate section) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	265.00	278.25
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.70	17.00
	TOTAL				425.25
	Add Water Charges @ 1%				4.25
	TOTAL				429.50
	Add CPOH @ 15%				64.42
	Cost of 1 metre				493.92
	Say				493.90

9.147.2.3 Casement Glazing bead (35 mm x 18 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	85.00	89.25
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.02	393.00	7.86
0114	Beldar	day	0.02	297.00	5.94
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				142.90
	Add Water Charges @ 1%				1.43
	TOTAL				144.33
	Add CPOH @ 15%				21.65
	Cost of 1 metre				165.98
	Say				166.00

9.147.3 Sliding Window (Two Track, 2/4 Shutters).

9.147.3.1 Two Track Sliding Frame (67 mm x 52 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm) Qty = 1.00 +	metre	1.05	245.00	257.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 5% = 0.05 = 1.05 metre				
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8772	Aluminium Track on bottom rail for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre	metre	2.10	25.00	52.50
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charge sof drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.70	25.50
	TOTAL				465.25
	Add Water Charges @ 1%				4.65
	TOTAL				469.90
	Add CPOH @ 15%				70.48
	Cost of 1 metre				540.38
	Say				540.40

9.147.3.2 Sliding window Sash (60 mm x 44 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre. MATERIAL:				
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	230.00	241.50
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre	metre	2.10	18.00	37.80
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.70	25.50
	TOTAL				434.80
	Add Water Charges @ 1%				4.35
	TOTAL				439.15
	Add CPOH @ 15%				65.87
	Cost of 1 metre				505.02
	Say				505.00

9.147.3.3 Sliding Interlock for Window (one vertical length in each shutter)(45.5 mm x 28 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	18.00	18.90
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.05	393.00	19.65
0114	Beldar	day	0.05	297.00	14.85
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				119.50
	Add Water Charges @ 1%				1.20
	TOTAL				120.70
	Add CPOH @ 15%				18.10
	Cost of 1 metre				138.80
	Say				138.80

9.147.3.4 Sliding Glazing bead (35 mm x 18 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 +	metre	1.05	85.00	89.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 5% = 0.05 = 1.05 metre				
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	393.00	7.86
0114	Beldar	day	0.02	297.00	5.94
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				142.90
	Add Water Charges @ 1%				1.43
	TOTAL				144.33
	Add CPOH @ 15%				21.65
	Cost of 1 metre				165.98
	Say				166.00

9.147.4 Sliding Door (Two Track, 2/4 Shutters).

9.147.4.1 Two Track Sliding Frame (67 mm x 52 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre. MATERIAL:				
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	245.00	257.25
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8772	Aluminium Track on bottom rail for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	393.00	39.30
0114	Beldar	day	0.10	297.00	29.70
9999	Sundries and carriage of materials	L.S.	10.00	1.70	17.00
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.70	25.50
	TOTAL				447.50
	Add Water Charges @ 1%				4.48
	TOTAL				451.98
	Add CPOH @ 15%				67.80
	Cost of 1 metre				519.78
	Say				519.80

9.147.4.2 Sliding Door Sash (80 mm x 44 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	290.00	304.50
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre	metre	2.10	18.00	37.80
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.14	393.00	55.02
0114	Beldar	day	0.14	297.00	41.58
9999	Sundries and carriage of materials	L.S.	5.00	1.70	8.50
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.70	25.50
	TOTAL				551.65
	Add Water Charges @ 1%				5.52
	TOTAL				557.17
	Add CPOH @ 15%				83.58
	Cost of 1 metre				640.75
	Say				640.75

9.147.4.3 Sliding Interlock for Door (one vertical length in each shutter) (45.5 mm x 28 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	18.00	18.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.05	393.00	19.65
0114	Beldar	day	0.05	297.00	14.85
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				119.50
	Add Water Charges @ 1%				1.20
	TOTAL				120.70
	Add CPOH @ 15%				18.10
	Cost of 1 metre				138.80
	Say				138.80

9.147.4.4 Sliding Glazing bead (35 mm x 18 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre.				
	MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	85.00	89.25
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.02	393.00	7.86
0114	Beldar	day	0.02	297.00	5.94
9999	Sundries and carriage of materials	L.S.	3.00	1.70	5.10
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.70	8.50
	TOTAL				142.90
	Add Water Charges @ 1%				1.43
	TOTAL				144.33
	Add CPOH @ 15%				21.65
	Cost of 1 metre				165.98
	Say				166.00

9.148 Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.

9.148.1 200 x 19 x 1.9 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	10.00	230.00	2300.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.70	4.64
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				2408.36
	Add Water Charges @ 1%				24.08
	TOTAL				2432.44
	Add CPOH @ 15%				364.87
	Cost of 10 nos				2797.31
	Cost of each				279.73
	Say				279.75

9.148.2 250 x 19 x 1.9 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	10.00	290.00	2900.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.70	4.64
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				3008.36
	Add Water Charges @ 1%				30.08
	TOTAL				3038.44
	Add CPOH @ 15%				455.77
	Cost of 10 nos				3494.21
	Cost of each				349.42
	Say				349.40

9.148.3 300 x 19 x 1.9 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	10.00	370.00	3700.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.70	4.64
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				3808.36
	Add Water Charges @ 1%				38.08
	TOTAL				3846.44
	Add CPOH @ 15%				576.97
	Cost of 10 nos				4423.41
	Cost of each				442.34
	Say				442.35

9.148.4 350 x 19 x 1.9 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	10.00	420.00	4200.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.70	4.64
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				4308.36
	Add Water Charges @ 1%				43.08
	TOTAL				4351.44
	Add CPOH @ 15%				652.72
	Cost of 10 nos				5004.16
	Cost of each				500.42
	Say				500.40

9.148.5 400 x 19 x 1.9 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	10.00	530.00	5300.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.70	4.64
0112	Carpenter 2nd class	day	0.14	361.00	50.54
0114	Beldar	day	0.14	297.00	41.58
	TOTAL				5408.36
	Add Water Charges @ 1%				54.08
	TOTAL				5462.44
	Add CPOH @ 15%				819.37
	Cost of 10 nos				6281.81
	Cost of each				628.18
	Say				628.20

9.149 Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	10.00	160.00	1600.00
9999	Carriage	L.S.	4.42	1.70	7.51
9999	Sundries (Screws)	L.S.	3.00	1.70	5.10
	LABOUR:				
0156	Carpenter (average)	day	0.125	377.00	47.12
	TOTAL				1659.73
	Add Water Charges @ 1%				16.60
	TOTAL				1676.33
	Add CPOH @ 15%				251.45
	Cost of 10 nos				1927.78
	Cost of each				192.78
	Say				192.80

9.150 Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	10.00	110.00	1100.00
9999	Carriage	L.S.	4.42	1.70	7.51
9999	Sundries (Screws)	L.S.	3.00	1.70	5.10
	LABOUR:				
0156	Carpenter (average)	day	0.125	377.00	47.12
	TOTAL				1159.73
	Add Water Charges @ 1%				11.60
	TOTAL				1171.33
	Add CPOH @ 15%				175.70
	Cost of 10 nos				1347.03
	Cost of each				134.70
	Say				134.70

9.151 Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8752	Zinc alloy rollers for uPVC windows	each	10.00	50.00	500.00
9999	Carriage	L.S.	4.42	1.70	7.51
9999	Sundries (Screws)	L.S.	3.00	1.70	5.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.125	377.00	47.12
	TOTAL				559.73
	Add Water Charges @ 1%				5.60
	TOTAL				565.33
	Add CPOH @ 15%				84.80
	Cost of 10 nos				650.13
	Cost of each				65.01
	Say				65.00

9.152 Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8753	Zinc alloy rollers for uPVC door	each	10.00	85.00	850.00
9999	Carriage	L.S.	4.42	1.70	7.51
9999	Sundries (Screws)	L.S.	3.00	1.70	5.10
	LABOUR:				
0156	Carpenter (average)	day	0.125	377.00	47.12
	TOTAL				909.73
	Add Water Charges @ 1%				9.10
	TOTAL				918.83
	Add CPOH @ 15%				137.82
	Cost of 10 nos				1056.65
	Cost of each				105.67
	Say				105.65

9.153 Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	10.00	100.00	1000.00
9999	Carriage	L.S.	4.42	1.70	7.51
9999	Sundries (Screws)	L.S.	3.00	1.70	5.10
	LABOUR:				
0156	Carpenter (average)	day	0.125	377.00	47.12
	TOTAL				1059.73
	Add Water Charges @ 1%				10.60
	TOTAL				1070.33
	Add CPOH @ 15%				160.55
	Cost of 10 nos				1230.88
	Cost of each				123.09
	Say				123.10

9.154 Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.4x2.4 m panel=5.76m² or 58.35 Kg.				
	MATERIAL:				
	M.S.Pipe section @ 10.13 kg/sqm=58.35 Kg+				
	Add 5% wastage = 2.92 Kg				
	Total = 61.27 Kg				
4009	Mild steel tubes hot finished welded type	kilogram	61.27	52.00	3186.04
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00	20.00	400.00
	Steel primer				
	5 x 2 x 2.40 x 0.05 x 4 = 4.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	4.80	24.95	119.76 A
	LABOUR:				
0116	Fitter (grade 1)	day	0.40	393.00	157.20
0103	Blacksmith 2nd class	day	0.53	361.00	191.33
0114	Beldar	day	1.23	297.00	365.31
0100	Bandhani	day	0.06	328.00	19.68
9999	Sundries	L.S.	33.56	1.70	57.05
	TOTAL				4496.37
	Add Water Charges @ 1% except on A i.e on (4,496.37 - 119.76 =) 4,376.61				43.77
	TOTAL				4540.14
	Add CPOH @ 15% except on A i.e on (4,540.14 - 119.76 =) 4,420.38				663.06
	Cost of 58.35 kg				5203.20
	Cost of 1 kg				89.17
	Say				89.15

9.155 Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mm thick: Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.66 sqm.				
	Detail of cost for a door with 2/3rd paneling.				
	200 x 108 cm = 2.16 sqm				
	Pannel area 4x45.1x36.55cm = 0.66 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Both side laminated 12mm thick				
	MDF Board 4x47.2x38.65 cm = 0.73 sqm				
	Adding 10% wastage = 0.07 sqm				
	Total= 0.80 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	0.80	691.90	553.52
9999	Sundries (Carriage of MDF board)	L.S.	1.82	1.70	3.09
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	393.00	224.01
9999	Sundries	L.S.	4.42	1.70	7.51
	TOTAL				788.13
	Add Water Charges @ 1%				7.88
	TOTAL				796.01
	Add CPOH @ 15%				119.40
	Cost of 0.66 sqm				915.41
	Cost of 1 sqm				1386.98
	Say				1387.00

9.156 Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).

9.156.1 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.00 sqm.				
	Detail of cost for 350x200 cm = 7sqm				
	MATERIAL:				
	12 mm thick both side laminated board= 7.00 sqm				
	Add for wastage @5% = 0.35 sqm				
	Total= 7.35 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	7.35	691.90	5085.46
9999	Sundries (Carriage of MDF board)	L.S.	13.52	1.70	22.98
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				5776.09
	Add Water Charges @ 1%				57.76
	TOTAL				5833.85
	Add CPOH @ 15%				875.08
	Cost of 7.00 sqm				6708.93
	Cost of 1 sqm				958.42
	Say				958.40

9.156.2 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 350x200 cm = 7sqm MATERIAL: 18 mm thick both side laminated board= 7.00 sqm Add for wastage @5% = 0.35 sqm Total= 7.35 sqm				
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	7.35	922.50	6780.38
9999	Sundries (Carriage of MDF board)	L.S.	19.76	1.70	33.59
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	361.00	324.90
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				7481.62
	Add Water Charges @ 1%				74.82
	TOTAL				7556.44
	Add CPOH @ 15%				1133.47
	Cost of 7.00 sqm				8689.91
	Cost of 1 sqm				1241.42
	Say				1241.40

9.157 Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).

9.157.1 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.60 sqm. Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm MATERIAL: 18 mm Thick MDF Board out side laminated = 0.60 sqm Add wastage @ 5% = 0.03 sqm Total= 0.63 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	0.63	860.65	542.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	PVC edge bending tape 2.00 mm thick 4X 0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.00	28.55	85.65
9999	Sundries (Carriage of MDF board)	L.S.	0.91	1.70	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	361.00	39.71
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries and screws	L.S.	7.80	1.70	13.26
	TOTAL				700.20
	Add Water Charges @ 1%				7.00
	TOTAL				707.20
	Add CPOH @ 15%				106.08
	Cost of 0.60 sqm				813.28
	Cost of 1 sqm				1355.47
	Say				1355.45

9.157.2 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.60 sqm.				
	Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm				
	MATERIAL:				
	25 mm Thick MDF Board outside laminated = 0.60 sqm				
	Add wastage @ 5% = 0.03 sqm				
	Total= 0.63 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	0.63	1198.15	754.83
	PVC edge bending tape 2.00 mm thick 4X0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.00	28.55	85.65
9999	Sundries (Carriage of MDF board)	L.S.	1.82	1.70	3.09
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	361.00	39.71
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries and screws	L.S.	7.80	1.70	13.26
	TOTAL				914.36
	Add Water Charges @ 1%				9.14
	TOTAL				923.50
	Add CPOH @ 15%				138.52
	Cost of 0.60 sqm				1062.02
	Cost of 1 sqm				1770.03
	Say				1770.05

9.158 Providing and fixing in wall lining medium density fibre board IS: 14587: 1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.

9.158.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00 sqm.				
	MATERIAL:				
	12 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	11.00	641.25	7053.75
9999	Sundries (Carriage of MDF board)	L.S.	13.52	1.70	22.98
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				8559.27
	Add Water Charges @ 1%				85.59
	TOTAL				8644.86
	Add CPOH @ 15%				1296.73
	Cost of 10.00 sqm				9941.59
	Cost of 1 sqm				994.16
	Say				994.15

9.158.2 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00 sqm.				
	MATERIAL:				
	18 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	11.00	860.65	9467.15
9999	Sundries (Carriage of MDF board)	L.S.	13.52	1.70	22.98
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				10972.67
	Add Water Charges @ 1%				109.73
	TOTAL				11082.40
	Add CPOH @ 15%				1662.36
	Cost of 10.00 sqm				12744.76
	Cost of 1 sqm				1274.48
	Say				1274.50

9.158.3 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00 sqm.				
	MATERIAL:				
	25 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	11.00	1198.15	13179.65
9999	Sundries (Carriage of MDF board)	L.S.	13.52	1.70	22.98
9999	Sundries and screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	361.00	462.08
0114	Beldar	day	1.43	297.00	424.71
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				14685.17
	Add Water Charges @ 1%				146.85
	TOTAL				14832.02
	Add CPOH @ 15%				2224.80
	Cost of 10.00 sqm				17056.82
	Cost of 1 sqm				1705.68
	Say				1705.70

9.159 Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked one side decorative and other side balancing lamination for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISI marked nickeled plated bright finishing M.S. piano hinges IS:3818 marked with necessary screwed complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.20 sqm.				
	Detail of Cost for 2.20 sqm (2.20 m x 1.00 m)				
	MATERIAL:				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination	sqm	2.20	1198.15	2635.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	exterior Grade - I MDF Board 25 mm thick confirming to IS:14587				
9999	Sundries(Carriage of MDF board)	L.S.	26.94	1.70	45.80
	PVC edge bending tape 2.00 mm thick 2x(2.20+1.00)=6.40 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	6.40	28.55	182.72
	Fitting for a door of 2.20 m x1.00 m Total = 2(2.20) = 4.40 metre				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.40	40.00	176.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.00	35.00	43.75
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	377.00	207.35
0114	Beldar	day	0.55	297.00	163.35
	TOTAL				3454.90
	Add Water Charges @ 1%				34.55
	TOTAL				3489.45
	Add CPOH @ 15%				523.42
	Cost of 2.20 sqm				4012.87
	Cost of 1 sqm				1824.03
	Say				1824.05

9.160 Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) IS: 14587:1998 marked, (one side decorative and other side balancing lamination) with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand complete.

9.160.1 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00 sqm.				
	Detail of cost for skirting 200 mm wide & 30 m long				
	Area 0.20 mx30 m = 6.0 sqm				
	MATERIAL:				
	Area 0.20 m x30 m = 6.0 sqm				
	Add wastage @ 10 % = 0.60 sqm				
	Total = 6.60 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	6.60	860.65	5680.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries (Carriage of MDF board)	L.S.	8.11	1.70	13.79
2489	PVC edge bending tape 2.00 mm thick	metre	30.00	28.55	856.50
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1020.00
9999	Sundries(Labour for drilling hole)	L.S.	130.00	1.70	221.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.77	361.00	277.97
0114	Beldar	day	0.86	297.00	255.42
9999	Sundries (screws and sand paper)	L.S.	53.82	1.70	91.49
	TOTAL				8416.46
	Add Water Charges @ 1%				84.16
	TOTAL				8500.62
	Add CPOH @ 15%				1275.09
	Cost of 6.00 sqm				9775.71
	Cost of 1 sqm				1629.29
	Say				1629.30

9.160.2 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00 sqm.				
	Detail of cost for skirting 200 mm wide & 30 m long				
	Area 0.20 mx30 m = 6.0 sqm				
	MATERIAL:				
	Area 0.20 m x30 m = 6.0 sqm				
	Add wastage @ 10 % = 0.60 sqm				
	Total = 6.60 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	6.60	1198.15	7907.79
9999	Sundries (Carriage of MDF board)	L.S.	8.11	1.70	13.79
2489	PVC edge bending tape 2.00 mm thick	metre	30.00	28.55	856.50
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1020.00
9999	Sundries(Labour for drilling hole)	L.S.	130.00	1.70	221.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.77	361.00	277.97
0114	Beldar	day	0.86	297.00	255.42
9999	Sundries(Screws and sand papers)	L.S.	53.82	1.70	91.49
	TOTAL				10643.96
	Add Water Charges @ 1%				106.44
	TOTAL				10750.40
	Add CPOH @ 15%				1612.56
	Cost of 6.00 sqm				12362.96
	Cost of 1 sqm				2060.49
	Say				2060.50

SUB HEAD : 10.0

STEEL WORK

10.1 Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one quintal.				
	MATERIAL:				
	Steel = 1.00q				
	Add wastage @ 5% = 0.05q				
	Total = 1.05q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.05	4650.00	4882.50
2205	Carriage of steel	tonne	0.105	94.80	9.95
	LABOUR:				
0116	Fitter (grade 1)	day	0.50	393.00	196.50
0103	Blacksmith 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	1.00	297.00	297.00
	Priming coat				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	3.00	24.95	74.85 A
9999	Sundries	L.S.	20.67	1.70	35.14
	TOTAL				5766.69
	Add Water Charges @ 1% except on A i.e on (5,766.69 - 74.85 =) 5,691.84				56.92
	TOTAL				5823.61
	Add CPOH @ 15% except on A i.e on (5,823.61 - 74.85 =) 5,748.76				862.31
	Cost of 100 kg				6685.92
	Cost of 1 kg				66.86
	Say				66.85

10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a truss 7.6m clear span (weight = 3.95 quintal).				
	MATERIAL:				
	(i) Principal rafter (T-iron):				
	100x 100x 10mm @ 15kg/m = 142.50kg+				
	Struts (angles)40x40x6mm:				
	2x1.35=2.70m @ 3.5kg/m = 9.45kg				
	Total = 15l.95kg+				
	Add wastage @ 5% = 7.60kg				
	Total = 159.55kg. = 1.60q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.60	4650.00	7440.00
	(ii) Ties (flats) 50x12mm:				
	2x2.7 = 5.4m @4.7kg/m = 25.38kg+				
	Ties central (flats):				
	50x10mm 1x2.80 = 2.8m @3.90kg/m = 10.92kg.+				
	Braces (flats)40x 10mm:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x1.84 = 3.68m @3.9kg/m = 14.35kg. Total = 50.65kg+ Add wastage @ 5% = 2.53kg. Total = 53.18kg. =0.53 qtl				
1009	Flats exceeding 10 mm in thickness (iii) Gusset plates 10mm thick: 1x0.74x0.35m = 0.259sqm.+ shoe 4x0.46x0.46 = 0.845sqm. Total = 1.104 sqm. 1.104sqm.@ 78.4kg/m = 86.55kg. 12mm plates at the point of principal rafter and strut: 2x0.3x0.2 = 0.12sqm.+ Tie beam, brace and strut: 2x0.5x0.3 = 0.30sqm.+ Sole plates: 2x0.46x0.46 = 0.42sqm.+ Anchor plate: 2x0.46x0.1 =0.09sqm. Total = 0.93 sqm. Say 1.00 sqm. 1.00 sqm. @ 94.4kg/m = 94.40kg. Total = 180.95kg. Add wastage @ 5% = 9.05kg. Total = 190.00kg or 1.90q	quintal	0.53	4500.00	2385.00
1010	Mild steel plates (iv) 16mm dia. 50mm long rivets = 56 Nos.+ Add wastage @ 5 % = 2.8 Nos. Total = 58.8 Nos	quintal	1.90	4700.00	8930.00
1020	Mild steel rivets (v) 20mm dia. holding down bolts 4 Nos.x460mm = 1840mm + Add wastage @ 5% = 92mm Total = 1932 mm	quintal	0.0684	5000.00	342.00
1221	20 mm dia holding down bolts	quintal	0.0529	5800.00	306.82
2205	Carriage of steel (0.160+0.053+0.091 +0.099+0.007+0.005) =0.415 tonne	tonne	0.415	94.80	39.34
	LABOUR:				
0116	Fitter (grade 1)	day	2.70	393.00	1061.10
0103	Blacksmith 2nd class	day	3.60	361.00	1299.60
0139	Skilled Beldar (for floor rubbing etc.)	day	5.40	328.00	1771.20
0114	Beldar	day	3.60	297.00	1069.20
0100	Bandhani	day	0.44	328.00	144.32
13.50.3	Applying priming coat: T Iron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 = 0.67sqm.+ Braces 2x 1.84x0.12 = 0.44 sqm.+ Ties 2.8x0.12 = 0.34 sqm. Total = 5.68 sqm Rate as per Item Number 13.50.3 of SH: Finishing	sqm	5.68	24.95	141.72 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				25067.54
	Add Water Charges @ 1% except on A i.e on (25,067.54 - 141.72 =) 24,925.82				249.26
	TOTAL				25316.80
	Add CPOH @ 15% except on A i.e on (25,316.80 - 141.72 =) 25,175.08				3776.26
	Cost of 395 kg				29093.06
	Cost of 1 kg				73.65
	Say				73.65

10.3 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a gate 2.4mx1.5m = 3.6 sqm. MATERIAL: M.S. channels 18 Nos. on both sides 20xl0x2mm @ 0.56kg/m 2x18x2.4 = 86.40m+ Add wastage @ 10% = 8.64m Total = 95.04m 95.04m@0.56kg/m =53.22kg=0.53q				
1007	Structural steel such as tees, angles channels and R.S. joists M.S. Tee-40x40x6mm for bottom-1.5 70m+ for top = 1.725m =3.295m Say 3.3m 3.3m @ 3.5kg/m = 11.55kg+ Add wastage @ 10% = 1.155 kg. Total = 12.705kg. Say 0.13 qtl	quintal	0.53	4650.00	2464.50
1007	Structural steel such as tees, angles channels and R.S. joists 20mmx5mm flat iron diagonals 4 Nos. 4x32x0.5334 = 68.275m 68.275m @ 0.8kg/m = 54.62kg+ Add wastage @ 10% = 5.46kg Total = 60.08kg = 0.60 qtl	quintal	0.13	4650.00	604.50
1008	Flats up to 10 mm in thickness	quintal	0.60	4200.00	2520.00
2205	Carriage of steel (0.053+0.013+0.060=0.126 tonne)	tonne	0.126	94.80	11.94
9999	Cost of rivets fixing hooks and washers	L.S.	269.10	1.70	457.47
9999	Cost of locking arrangements and handles.	L.S.	67.34	1.70	114.48
4013	Pulley 40 mm dia	each	10.00	30.00	300.00
	Priming coat- Channel - 36x0.076x2.4 = 6.57sqm.+ Tee-0.16x3.3=0.53sqm.+ Flats-0.05x68 = 3.40sqm. Total = 10.50sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	10.50	24.95	261.97 A
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	393.00	1179.00
0102	Blacksmith 1 st class	day	6.00	393.00	2358.00
0103	Blacksmith 2nd class	day	6.00	361.00	2166.00
0123	Mason (brick layer) 1 st class	day	0.50	393.00	196.50
0124	Mason (brick layer) 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	8.00	297.00	2376.00
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				15465.34
	Add Water Charges @ 1% except on A i.e on (15,465.34 - 261.97 =) 15,203.37				152.03
	TOTAL				15617.37
	Add CPOH @ 15% except on A i.e on (15,617.37 - 261.97 =) 15,355.40				2303.31
	Cost of 3.6 sqm				17920.68
	Cost of 1 sqm				4977.97
	Say				4977.95

10.4 Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junction and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm. MATERIAL: (i) M.S. sheet lmm thick 5.76sqm. @ 7.85kg/sqm. = 45.2l6kg.+ Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks	quintal	0.497	4900.00	2435.30
	(ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+ 1/2x0.26(0.04+0.3) = 0.0442 = 0.0562sqm.+ 8x0.0562 = 0.4496sqm.+ 2x22/7x1/4x0.3x0.3=0.1414sqm. = 0.5910sqm. 0.5910sqm.@23.55kg/sqm.= 13.92kg.+ Add wastage @ 10% = 1.39kg Total = 15.31kg. or 0.153q				
1010	Mild steel plates	quintal	0.153	4700.00	719.10
	(iii) Angle iron 40x40x6mm @ 3.5kg/m Sides-4x2.4=9.6m+ Bottom & top 4xi.2 = 4.8m+ Diagonals-2x2.5=5.0m+ 2x2.45 = 4.90 m+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top and bottom guides 2x4.80 = 9.60m Top guide supports 7x0.80 = 2.1m = 36.0m 36m @3.50kg. per m. = 126kg.+ Add wastage® 10%= 12.6kg. Total = 138.60kg. or 1.39q				
1007	Structural steel such as tees, angles channels (iv)Channel 25x25x6mm @ 3.05kg/m Bottom-2.4m : 2.4x3.05 Channel 40x40x6mm @ 5.56kg/m 0.5x5.56 = 2.78kg. = 10.1kg.+ Add wastage @ 10% = 1.101 kg. Total = 11.11kg. or 0.11q	quintal	1.39	4650.00	6463.50
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.11	4650.00	511.50
2205	Carriage of steel (0.0497+0.015+0.139+0.11 =0.2157 tonne)	tonne	0.216	94.80	20.48
9999	Pully guide blocks including drilling holes	L.S.	269.10	1.70	457.47
0969	Pulley 25 mm dia	each	8.00	35.00	280.00
9999	Handles and locking arrangements	L.S.	167.75	1.70	285.18
9999	Bolts and rivets	L.S.	269.10	1.70	457.47
9999	Cement concrete	L.S.	13.52	1.70	22.98
	Priming coat- M.S. Sheet 2x5.76 = 11.52+ Angle iron 0.16x36 = 5.76+ Channel-0.15x2.4=0.36+ 0.24x0.5=0.12 Total = 17.76 Say 18.0sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	18.00	24.95	449.10 A
	LABOUR:				
0116	Fitter (grade 1)	day	2.00	393.00	786.00
0102	Blacksmith 1 st class	day	3.00	393.00	1179.00
0103	Blacksmith 2nd class	day	4.00	361.00	1444.00
0114	Beldar	day	4.00	297.00	1188.00
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				17018.80
	Add Water Charges @ 1% except on A i.e on (17,018.80 - 449.10 =) 16,569.70				165.70
	TOTAL				17184.50
	Add CPOH @ 15% except on A i.e on (17,184.50 - 449.10 =) 16,735.40				2510.31
	Cost of 5.76 sqm				19694.81
	Cost of 1 sqm				3419.24
	Say				3419.25

10.5 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.

10.5.1 Using M.S. angels 40x40x6 mm for diagonal braces.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm. MATERIAL: (i) M.S. sheet 1mm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks (ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+ 1/2x0.26(0.04+0.3) = 0.0442 = 0.0562sqm.+ 8x0.0562 = 0.4496sqm.+ 2x22/7xl/4x0.3x0.3=0.1414sqm. = 0.5910sqm. 0.5910sqm.@23.55kg/sqm.= l3.92kg.+ Add wastage @ 10% = 1.39kg Total = 15.31kg. or 0.153q	quintal	0.497	4900.00	2435.30
1013	Mild steel sheets for tanks (iii) Angle iron:40x40x6mm @3.5kg/m Sides-4x2.40 = 9.6m+ Top & bottom-4xl.20=4.8m+ Diagonals-2x2.5=5.0m+ 2x2.45 = 4.9m+ = 24.30m+ Add wastage @ 10% = 2.43m Total =26.73m 26.73m @ 3.5kg. per m. = 93.56kg=0.936q	quintal	0.153	4900.00	749.70
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.936	4650.00	4352.40
2205	Carriage of steel (0.0497+0.0153+0.0936 tonne) = 0.1586 t	tonne	0.1586	94.80	15.04
1036	Iron pintels including welded pin	each	4.00	40.00	160.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.00	130.00	520.00
1019	Mild steel hooks	each	2.00	35.00	70.00
9999	Locking arrangements and handles	L.S.	167.70	1.70	285.09
9999	Rivets	L.S.	269.10	1.70	457.47
	Priming coat- M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	15.41	24.95	384.48 A
	LABOUR:				
0116	Fitter (grade 1)	day	2.00	393.00	786.00
0102	Blacksmith 1 st class	day	3.00	393.00	1179.00
0103	Blacksmith 2nd class	day	4.00	361.00	1444.00
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	5.00	297.00	1485.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				14643.20
	Add Water Charges @ 1% except on A i.e on (14,643.20 - 384.48 =) 14,258.72				142.59
	TOTAL				14785.79
	Add CPOH @ 15% except on A i.e on (14,785.79 - 384.48 =) 14,401.31				2160.20
	Cost of 5.76 sqm				16945.99
	Cost of 1 sqm				2942.01
	Say				2942.00

10.5.2 Using flats 30x6 mm for diagonal braces and central cross piece.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.				
	MATERIAL:				
	(i) M.S. sheet lmm thick				
	5.76sqm. @ 7.85kg/sqm. = 45.216kg.				
	Add wastage @ 10% = 4.522kg.				
	Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks	quintal	0.497	4900.00	2435.30
	(ii) Gussets plates-3.00mm thick vide (ii) in item 10.4 = 0.5910sqm.				
	at mid height = 4x0.0528 = 0.2112sqm.				
	Total = 0.8022sqm.				
	Add wastage @ 10% = 0.0802sqm.				
	Total =0.8824sqm. @ 23.55 kg/sqm =20.78 kg				
	Grand Total = 0.2078 qtl				
1010	Mild steel plates	quintal	0.2078	4700.00	976.66
	(iii) Angle iron:40x40x6mm @3.5kg/m				
	Sides-4x2.40 = 9.6m				
	Top & bottom-4xl.20=4.8m				
	Total = 14.40m				
	Add wastage @				
	Total = 14.40m				
	Add wastage @ 10% = 1.44m				
	Total = 15.84m				
	15.84m @ 3.5kg. per m..= 55.44kg =0.554qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.554	4650.00	2576.10
	(iv) Flats 30x6mm @1.4kg/m				
	4x2.45=9.80m+				
	2xl.20=2.40m				
	Total = 12.20m+				
	Add wastage @ 10% = 1.22m				
	Total = 13.42m				
	13.42m @ 1.4kg. per m. = 18.788kg. = 0.188q				
1008	Flats up to 10 mm in thickness	quintal	0.188	4200.00	789.60
	Carriage of (i) (ii) and (iv)-0.0497+0.0208+0.0554+0.0188=0.1447 tonne				
2205	Carriage of steel	tonne	0.1447	94.80	13.72
1036	Iron pintels including welded pin	each	4.00	40.00	160.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.00	130.00	520.00
1019	Mild steel hooks	each	2.00	35.00	70.00
9999	Locking arrangements and handles	L.S.	167.70	1.70	285.09
9999	Rivets	L.S.	269.10	1.70	457.47
	Applying priming coat: M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89 0.16x14.40 = 2.30+ Flats 0.072x12.2 = 0.88 Total = 14.70 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	14.70	24.95	366.76 A
	LABOUR:				
0116	Fitter (grade 1)	day	2.00	393.00	786.00
0102	Blacksmith 1 st class	day	3.00	393.00	1179.00
0103	Blacksmith 2nd class	day	4.00	361.00	1444.00
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0124	Mason (brick layer) 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	5.00	297.00	1485.00
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				13864.42
	Add Water Charges @ 1% except on A i.e on (13,864.42 - 366.76 =) 13,497.66				134.98
	TOTAL				13999.40
	Add CPOH @ 15% except on A i.e on (13,999.40 - 366.76 =) 13,632.64				2044.90
	Cost of 5.76 sqm				16044.30
	Cost of 1 sqm				2785.47
	Say				2785.45

10.6 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 – part 1 and M.S. top cover of required thickness for rolling shutters.

10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a rolling shutter of size 3mx2.5m = 7.5 sqm.				
	MATERIAL:				
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	7.50	1250.00	9375.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	2.50	600.00	1500.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.00	280.00	280.00
9999	Carriage	L.S.	53.82	1.70	91.49
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	393.00	1002.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	2.55	297.00	757.35
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32
9999	Sundries	L.S.	60.58	1.70	102.99
	TOTAL				13199.46
	Add Water Charges @ 1%				131.99
	TOTAL				13331.45
	Add CPOH @ 15%				1999.72
	Cost of 7.5 sqm				15331.17
	Cost of 1 sqm				2044.16
	Say				2044.15

10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a rolling shutter of size 3mx2.50m = 7.50 sqm.				
	MATERIAL:				
7045	Rolling shutters of 80x1.2 mm laths	sqm	7.50	1150.00	8625.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	2.50	350.00	875.00
0975	27.5 cm long wire spring grade No. 2 for rolling	each	1.00	280.00	280.00
9999	Carriage	L.S.	53.82	1.70	91.49
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	393.00	1002.15
0114	Beldar	day	2.55	297.00	757.35
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32
9999	Sundries	L.S.	60.58	1.70	102.99
	TOTAL				11824.46
	Add Water Charges @ 1%				118.24
	TOTAL				11942.70
	Add CPOH @ 15%				1791.40
	Cost of 7.5 sqm				13734.10
	Cost of 1 sqm				1831.21
	Say				1831.20

10.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a rolling shutter of size 3mx2.5m = 7.50 sqm.				
	MATERIAL:				
7044	Rolling shutters of 80x0.90 mm laths	sqm	7.50	1080.00	8100.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	2.50	320.00	800.00
0975	27.50 cm long wire spring grade No. 2 for rolling shutters	each	1.00	280.00	280.00
9999	Carriage	L.S.	53.82	1.70	91.49
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	393.00	1002.15
0114	Beldar	day	2.55	297.00	757.35
0123	Mason (brick layer) 1 st class	day	0.12	393.00	47.16
0124	Mason (brick layer) 2nd class	day	0.12	361.00	43.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	60.58	1.70	102.99
	TOTAL				11224.46
	Add Water Charges @ 1%				112.24
	TOTAL				11336.70
	Add CPOH @ 15%				1700.50
	Cost of 7.5 sqm				13037.20
	Cost of 1 sqm				1738.29
	Say				1738.30

10.7 Providing and fixing ball bearing for rolling shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL:				
0976	Ball bearing for rolling shutters	each	1.00	330.00	330.00
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				375.75
	Add Water Charges @ 1%				3.76
	TOTAL				379.51
	Add CPOH @ 15%				56.93
	Cost of each				436.44
	Say				436.45

10.8 Extra for providing mechanical device chain and crank operation for operating rolling shutters.

10.8.1 Exceeding 10.00 sqm and upto 16.80 sqm in the area.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one sqm.				
	MATERIAL:				
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	1.00	550.00	550.00
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				572.98
	Add Water Charges @ 1%				5.73
	TOTAL				578.71
	Add CPOH @ 15%				86.81
	Cost of 1 sqm				665.52
	Say				665.50

10.8.2 Exceeding 16.80 sqm in area.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one sqm.				
	MATERIAL:				
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	1.00	580.00	580.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				602.98
	Add Water Charges @ 1%				6.03
	TOTAL				609.01
	Add CPOH @ 15%				91.35
	Cost of 1 sqm				700.36
	Say				700.35

10.9 Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in-Charge, (area of grill to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a shutter of width 2.5m and grill height 0.6m Grill Area = 1.50sqm.				
	MATERIAL:				
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod instead of laths	sqm	1.50	270.00	405.00
	TOTAL				405.00
	Add Water Charges @ 1%				4.05
	TOTAL				409.05
	Add CPOH @ 15%				61.36
	Cost of 1.5 sqm				470.41
	Cost of 1 sqm				313.61
	Say				313.60

10.10 Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.

10.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg).				
	MATERIAL:				
	Cement concrete blocks 15x10x10cm = 0.009 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5309.00	47.78 A
	LABOUR:				
0102	Blacksmith 1 st class	day	0.17	393.00	66.81
0123	Mason (brick layer) 1 st class	day	0.08	393.00	31.44
0124	Mason (brick layer) 2nd class	day	0.08	361.00	28.88
0114	Beldar	day	0.50	297.00	148.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for carriage of material	L.S.	67.28	1.70	114.38
	TOTAL				437.79
	Add Water Charges @ 1% except on A i.e on (437.79 - 47.78 =) 390.01				3.90
	TOTAL				441.69
	Add CPOH @ 15% except on A i.e on (441.69 - 47.78 =) 393.91				59.09
	Cost of 15 kg				500.78
	Cost of 1 kg				33.39
	Say				33.40

10.10.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg).				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.17	393.00	66.81
0114	Beldar	day	0.17	297.00	50.49
9999	Sundries for carriage of material	L.S.	67.28	1.70	114.38
	TOTAL				231.68
	Add Water Charges @ 1%				2.32
	TOTAL				234.00
	Add CPOH @ 15%				35.10
	Cost of 15 kg				269.10
	Cost of 1 kg				17.94
	Say				17.95

10.11 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer , but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).

10.11.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a double leaf door of size 2.075x1.175m = 2.44 sqm. (weight 30 kg).				
	MATERIAL:				
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.00	48.00	1440.00
9999	Carriage of steel door	L.S.	40.37	1.70	68.63
	LABOUR: for fabrication				
0103	Blacksmith 2nd class	day	0.17	361.00	61.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0116	Fitter (grade 1)	day	0.26	393.00	102.18
0114	Beldar	day	0.34	297.00	100.98
9999	Sundries	L.S.	15.37	1.70	26.13
	Fixing with CC 1:3:6 blocks, wooden plugs and screws or rawl plugs and screws or with fixing clips and bolts and nuts as required including metal sash putty for glass fixing				
10.10.1	Rate as per Item Number 10.10.1	kg	30.00	33.40	1002.00 A
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.44	24.95	60.88 A
	TOTAL				2862.17
	Add Water Charges @ 1% except on A i.e on (2,862.17 - 1,062.88 =) 1,799.29				17.99
	TOTAL				2880.16
	Add CPOH @ 15% except on A i.e on (2,880.16 - 1,062.88 =) 1,817.28				272.59
	Cost of 30 kg				3152.75
	Cost of 1 kg				105.09
	Say				105.10

10.11.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a double leaf door of size 2.075x1.175m = 2.44 sqm. (weight 30 kg).				
	MATERIAL:				
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.00	48.00	1440.00
9999	Carriage of steel door	L.S.	40.37	1.70	68.63
	LABOUR:				
	for fabrication				
0103	Blacksmith 2nd class	day	0.17	361.00	61.37
0116	Fitter (grade 1)	day	0.26	393.00	102.18
0114	Beldar	day	0.34	297.00	100.98
9999	Sundries	L.S.	15.37	1.70	26.13
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.44	24.95	60.88 A
	TOTAL				1860.17
	Add Water Charges @ 1% except on A i.e on (1,860.17 - 60.88 =) 1,799.29				17.99
	TOTAL				1878.16
	Add CPOH @ 15% except on A i.e on (1,878.16 - 60.88 =) 1,817.28				272.59
	Cost of 30 kg				2150.75
	Cost of 1 kg				71.69
	Say				71.70

10.12 Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre beading for doors, windows, Ventilatators and composit units.				
1143	Steel beading	metre	1.00	25.00	25.00
9999	Applying priming coat	L.S.	0.46	1.70	0.78
9999	Fixing charges	L.S.	3.01	1.70	5.12
	TOTAL				30.90
	Add Water Charges @ 1%				0.31
	TOTAL				31.21
	Add CPOH @ 15%				4.68
	Cost of 1 metre				35.89
	Say				35.90

10.13 Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.13.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 17.5 kg.				
	MATERIAL:				
	Tee iron 40x40x6mm				
	= 2 + 2 + 1 = 5m				
	5 metres @3.5kg/m = 17.5kg.+				
	Add wastage @ 5% = 0.87kg.				
	Total = 18.37 kg. Say 0.18 qunital				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.18	4650.00	837.00
	M.S. bars 10mm = lxlm = 1 metre				
	1 metre @ 0.60kg/m = 0.60kg.+				
	Add wastage @ 5% = 0.03kg.				
	Total = 0.63 kg. Say = 0.006 qunital				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ 0.35kg/m = 0.21 kg+				
	Add wastage @ 5% = 0.01 kg.				
	Total = 0.22 kg				
1008	Flats up to 10 mm in thickness	quintal	0.002	4200.00	8.40
	Cement concrete block 1:3:6- 6x15x10x 10cm= 0.009 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5309.00	47.78 A
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	for screws and nuts and bolts	L.S.	35.88	1.70	61.00
9999	for applying steel primer	L.S.	17.94	1.70	30.50
9999	Carriage of material	L.S.	5.33	1.70	9.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0103	Blacksmith 2nd class	day	0.10	361.00	36.10
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	TOTAL				1241.44
	Add Water Charges @ 1% except on A i.e on (1,241.44 - 47.78 =) 1,193.66				11.94
	TOTAL				1253.38
	Add CPOH @ 15% except on A i.e on (1,253.38 - 47.78 =) 1,205.60				180.84
	Cost of 17.5 kg				1434.22
	Cost of 1 kg				81.96
	Say				81.95

10.13.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 17.5 kg.				
	MATERIAL:				
	Tee iron 40x40x6mm				
	= 2 + 2 + 1 = 5m				
	5 metres @3.5kg/m = 17.5kg.+				
	Add wastage @ 5% = 0.87kg.				
	Total = 18.37 kg. Say 0.18 qunital				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.18	4650.00	837.00
	M.S. bars 10mm = lxlm = 1 metre				
	1 metre @ 0.60kg/m = 0.60kg.+				
	Add wastage @ 5% = 0.03kg.				
	Total = 0.63 kg. Say = 0.006 qunital				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ 0.35kg/m = 0.21 kg+				
	Add wastage @ 5% = 0.01 kg.				
	Total = 0.22 kg				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	for screws and nuts and bolts	L.S.	35.88	1.70	61.00
9999	for applying steel primer	L.S.	17.94	1.70	30.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR:				
0103	Blacksmith 2nd class	day	0.10	361.00	36.10
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	TOTAL				1185.26
	Add Water Charges @ 1%				11.85
	TOTAL				1197.11
	Add CPOH @ 15%				179.57
	Cost of 17.5 kg				1376.68
	Cost of 1 kg				78.67
	Say				78.65

10.14 Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed, mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge.

10.14.1 Profile B.

10.14.1.1 Fixing with adjustable lugs with split end tail to each jamb.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60	metre	5.00	220.00	1100.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B" 2+2+1=5m	metre	5.00	220.00	1100.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	Screws, nuts and bolts	L.S.	35.88	1.70	61.00
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR:				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	Steel primer-				
	500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1561.28
	Add Water Charges @ 1% except on A i.e on (1,561.28 - 67.12 =) 1,494.16				14.94
	TOTAL				1576.22
	Add CPOH @ 15% except on A i.e on (1,576.22 - 67.12 =) 1,509.10				226.36
	Cost of 5 metre				1802.58
	Cost of 1 metre				360.52
	Say				360.50

10.14.1.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B" 2+2+1=5m	metre	5.00	220.00	1100.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Deduct sundries for not providing adjustable lugs	L.S.	-20.00	1.70	-34.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	Screws, nuts and bolts	L.S.	35.88	1.70	61.00
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR:				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	Steel primer-				
	500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1527.28
	Add Water Charges @ 1% except on A i.e on (1,527.28 - 67.12 =) 1,460.16				14.60
	TOTAL				1541.88
	Add CPOH @ 15% except on A i.e on (1,541.88 - 67.12 =) 1,474.76				221.21
	Cost of 5 metre				1763.09
	Cost of 1 metre				352.62
	Say				352.60

10.14.2 Profile C.

10.14.2.1 Fixing with adjustable lugs with split end tail to each jamb.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	5.00	240.00	1200.00
	2+2+1=5m				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	Screws, nuts and bolts	L.S.	35.88	1.70	61.00
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR:				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	Steel primer-				
	500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1661.28
	Add Water Charges @ 1% except on A i.e on (1,661.28 - 67.12 =) 1,594.16				15.94
	TOTAL				1677.22
	Add CPOH @ 15% except on A i.e on (1,677.22 - 67.12 =) 1,610.10				241.52
	Cost of 5 metre				1918.74
	Cost of 1 metre				383.75
	Say				383.75

10.14.2.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for Cost of 5 metre.				
	MATERIAL:				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	5.00	240.00	1200.00
	2+2+1=5				
9999	Sundries for not providing adjustable lugs(-)	L.S.	-20.00	1.70	-34.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	Screws and Nuts bolts	L.S.	35.88	1.70	61.00
	50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg. Say 0.03 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	Steel primer-				
	500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1627.28
	Add Water Charges @ 1% except on A i.e on (1,627.28 - 67.12 =) 1,560.16				15.60
	TOTAL				1642.88
	Add CPOH @ 15% except on A i.e on (1,642.88 - 67.12 =) 1,575.76				236.36
	Cost of 5 metre				1879.24
	Cost of 1 metre				375.85
	Say				375.85

10.14.3 Profile E.

10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	5.00	270.00	1350.00
	2+2+1=5.00				
0595	Bright finished or black enameled mild steel butt	10 Nos	6.00	85.00	51.00
9999	Screws & Nuts bolts	L.S.	35.88	1.70	61.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	(A) Steel primer-				
	500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm)= 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1811.28
	Add Water Charges @ 1% except on A i.e on (1,811.28 - 67.12 =) 1,744.16				17.44
	TOTAL				1828.72
	Add CPOH @ 15% except on A i.e on (1,828.72 - 67.12 =) 1,761.60				264.24
	Cost of 5 metre				2092.96
	Cost of 1 metre				418.59
	Say				418.60

10.14.3.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 metre.				
	MATERIAL:				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	5.00	270.00	1350.00
	2+2+1 =5 m				
9999	Sundries for not providing adjustable lugs (-)	L.S.	-20.00	1.70	–34.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	Screws & Nuts bolts	L.S.	35.88	1.70	61.00
	50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg .				
	Say0.03 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4650.00	139.50
9999	Carriage of material	L.S.	5.33	1.70	9.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	393.00	58.95
0114	Beldar	day	0.20	297.00	59.40
9999	Sundries	L.S.	8.97	1.70	15.25
	(A) Steel primer- 500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm)= 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	24.95	67.12 A
	TOTAL				1777.28
	Add Water Charges @ 1% except on A i.e on (1,777.28 - 67.12 =) 1,710.16				17.10
	TOTAL				1794.38
	Add CPOH @ 15% except on A i.e on (1,794.38 - 67.12 =) 1,727.26				259.09
	Cost of 5 metre				2053.47
	Cost of 1 metre				410.69
	Say				410.70

10.15 Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.15.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.13 Kg. L- section - 32x22x28mm 1.60mm thick 2.00+2.00+1.00 = 5.00 m Width of MS sheet = 32+24.80+22+24.80+10mm = 113.60mm = 0.1136m Area of MS sheet = 0.1136x5.00x0.0016 = 0.0009088 sqm Weight of Sheet = 0.0009088x7850 = 7.134 kg Add wastage @ 5% = 0.357kg. Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or induction butt welded M.S. bars 10mm = lxlm = 1 metre 1 metre @ 0.60kg/m = 0.60kg. Add wastage @ 5% = 0.03 kg. Total = 0.63 kg. Say = 0.006 qunital	kilogram	7.49	70.00	524.30
1002	Mild steel round bar 12 mm dia and below M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21 kg Add wastage @ 5% = 0.01 kg. Total = 0.22 kg	quintal	0.006	4500.00	27.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1008	Flats up to 10 mm in thickness Cement concrete block 1:3:6- 6x15x10x 10cm= 0.009 cum	quintal	0.002	4200.00	8.40
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5309.00	47.78 A
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	for screws and nuts and bolts	L.S.	35.88	1.70	61.00
9999	for applying steel primer	L.S.	17.94	1.70	30.50
9999	Carriage of material	L.S.	5.33	1.70	9.06
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	361.00	14.44
0116	Fitter (grade 1)	day	0.06	393.00	23.58
0114	Beldar	day	0.08	297.00	23.76
9999	Sundries	L.S.	3.64	1.70	6.19
	TOTAL				827.01
	Add Water Charges @ 1% except on A i.e on (827.01 - 47.78 =) 779.23				7.79
	TOTAL				834.80
	Add CPOH @ 15% except on A i.e on (834.80 - 47.78 =) 787.02				118.05
	Cost of 7.13 kg				952.85
	Cost of 1 kg				133.64
	Say				133.65

10.15.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.13 kg. L- section - 32x22x28mm 1.60mm thick 2.00+2.00+1.00 = 5.00 m Width of MS sheet = 32+24.80+22+24.80+10mm = 113.60mm = 0.1136m Area of MS sheet = 0.1136x5.00x0.0016 = 0.0009088 sqm Weight of Sheet = 0.0009088x7850 = 7.134 kg Add wastage @ 5% = 0.357kg. Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or induction butt welded M.S. bars 10mm = lxlm = 1 metre 1 metre @ 0.60kg/m = 0.60kg. Add wastage @ 5% = 0.03 kg. Total = 0.63 kg. Say = 0.006 qunital	kilogram	7.49	70.00	524.30
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	85.00	51.00
9999	for screws and nuts and bolts	L.S.	35.88	1.70	61.00
9999	for applying steel primer	L.S.	17.94	1.70	30.50
9999	Carriage of material	L.S.	5.33	1.70	9.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	361.00	14.44
0116	Fitter (grade 1)	day	0.06	393.00	23.58
0114	Beldar	day	0.08	297.00	23.76
9999	Sundries	L.S.	3.64	1.70	6.19
	TOTAL				770.83
	Add Water Charges @ 1%				7.71
	TOTAL				778.54
	Add CPOH @ 15%				116.78
	Cost of 7.13 kg				895.32
	Cost of 1 kg				125.57
	Say				125.55

10.16 Steel work in built up tubular (round, square or rectanglar hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.

10.16.1 Hot finished welded type tubes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a truss of span 8 metre weight = 119 kg. MATERIAL: 50mm dia. tube Tie beam-lx8.0m = 8.00m+ Principal rafter 2x4.30m = 8.60m = 16.60m 16.60m @ 5.10kg./m = 84.66kg. 40mm dia. tube Members = 2(0.45+1.25+0.90+2.15) = 2x4.75=9.50m 9.50m @ 3.61kg/m = 34.60kg. Total = 118.96kg. Add wastage @ 5% = 5.94kg. Total = 124.90kg. say 125 kg				
4009	Mild steel tubes hot finished welded type	kilogram	125.00	52.00	6500.00
2205	Carriage of steel	tonne	0.125	94.80	11.85
	Priming coat 50mm dia. tube 16.60x0.157m = 1.61 sqm. 40mm dia. tube 9.50x0.125m = 1.91 sqm. = 2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.80	24.95	69.86 A
	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties:- 2x22/7x6.03=37.90cm.+ Members:-2x4x2x22/7x4.83=242.87cm Total = 356.57cm say 357cm				
1215	Welding by electric plant	cm	357.00	1.80	642.60
	LABOUR: For cutting, assembling & erection				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	1.50	393.00	589.50
0100	Bandhani	day	0.75	328.00	246.00
0114	Beldar	day	5.50	297.00	1633.50
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				9830.55
	Add Water Charges @ 1% except on A i.e on (9,830.55 - 69.86 =) 9,760.69				97.61
	TOTAL				9928.16
	Add CPOH @ 15% except on A i.e on (9,928.16 - 69.86 =) 9,858.30				1478.74
	Cost of 119 kg				11406.90
	Cost of 1 kg				95.86
	Say				95.85

10.16.2 Hot finished seamless type tubes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a truss of span 8 metre weight = 119 kg. MATERIAL: 50mm dia. tube Tie beam- 1 x 8.0m = 8.00m + Principal rafter 2x4.30m = 8.60m = 16.60m 16.60m @ 5.10 kg/ m = 84.66 kg. 40mm dia. tube Members = 2(0.45+1.25+0.90+2.15) = 2x4.75 = 9.50m 9.50m @ 3.61kg/m = 34.60kg. Total = 118.96kg. Add wastage @ 5% = 5.94kg. Total = 124.90kg. say 125 kg				
4010	Mild steel tubes hot finished seamless type	kilogram	125.00	65.00	8125.00
2205	Carriage of steel	tonne	0.125	94.80	11.85
	Priming coat 50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. Total =2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties :- 2x22/7x6.03=37.90cm.+ Members :- 2x4x2x22/7x4.83 = 242.87cm Total = 356.57 cm say 357 cm	sqm	2.80	24.95	69.86 A
1215	Welding by electric plant	cm	357.00	1.80	642.60
	LABOUR:				
0102	Blacksmith 1 st class	day	1.50	393.00	589.50
0100	Bandhani	day	0.75	328.00	246.00
0114	Beldar	day	5.50	297.00	1633.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				11455.55
	Add Water Charges @ 1% except on A i.e on (11,455.55 - 69.86 =) 11,385.69				113.86
	TOTAL				11569.41
	Add CPOH @ 15% except on A i.e on (11,569.41 - 69.86 =) 11,499.55				1724.93
	Cost of 119 kg				13294.34
	Cost of 1 kg				111.72
	Say				111.70

10.16.3 Electric resistance or induction butt welded tubes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a truss of span 8 metre weight = 119 kg. MATERIAL: 50mm dia. tube Tie beam-1x8.0m = 8.00m+ Principal rafter 2x4.30m = 8.60m = 16.60m 16.60m @ 5.10kg./m = 84.66kg. 40mm dia. tube Members = 2(0.45+1.25+0.90+2.15) = 2x4.75=9.50m 9.50m @ 3.61kg/m = 34.60kg. Total = 118.96kg. Add wastage @ 5% = 5.94kg. Total = 124.90kg. say 125 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	125.00	70.00	8750.00
2205	Carriage of steel	tonne	0.125	94.80	11.85
	Priming coat 50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. Total =2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.80	24.95	69.86 A
	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties :- 2x22/7x6.03=37.90cm.+ Members :- 2x4x2x22/7x4.83 = 242.87cm Total = 356.57 cm say 357 cm				
1215	Welding by electric plant	cm	357.00	1.80	642.60
	LABOUR:				
0102	Blacksmith 1 st class	day	1.50	393.00	589.50
0100	Bandhani	day	0.75	328.00	246.00
0114	Beldar	day	5.50	297.00	1633.50
9999	Sundries	L.S.	80.73	1.70	137.24
	TOTAL				12080.55
	Add Water Charges @ 1% except on A i.e on (12,080.55 - 69.86 =) 12,010.69				120.11
	TOTAL				12200.66
	Add CPOH @ 15% except on A i.e on (12,200.66 - 69.86 =) 12,130.80				1819.62
	Cost of 119 kg				14020.28
	Cost of 1 kg				117.82
	Say				117.80

10.17 Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 clamp.				
	MATERIAL:				
	16mm dia. M.S. bar 1m @ 1.58 kg/m				
	1x1.58 = 1.58kg+				
	Add wastage @ 5% = 0.08 kg.				
	Total = 1.66 kg.				
	Say 1.70kg. or 0.017q				
1003	Mild steel round bar above 12 mm dia	quintal	0.017	4300.00	73.10
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	361.00	14.44
0114	Beldar	day	0.04	297.00	11.88
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.82	1.70	3.09
	TOTAL				102.51
	Add Water Charges @ 1%				1.03
	TOTAL				103.54
	Add CPOH @ 15%				15.53
	Cost of each				119.07
	Say				119.05

10.18 Providing and fixing circular / hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one box clamp.				
	MATERIAL:				
4012	Circular C.I. Box for ceiling fan	each	1.00	60.00	60.00
	including bottom and top lids				
	12mm dia. M.S. bar 80cm @ 0.9kg/m - 0.72kg+				
	Add wastage @ 5% - 0.036				
	Total = 0.756 kg. Say 0.008 q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.008	4500.00	36.00
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	361.00	10.83
0114	Beldar	day	0.03	297.00	8.91
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.82	1.70	3.09
	TOTAL				118.83
	Add Water Charges @ 1%				1.19
	TOTAL				120.02
	Add CPOH @ 15%				18.00
	Cost of each				138.02
	Say				138.00

10.19 Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one bolt 16mm dia and 1200mm long.				
	MATERIAL:				
	l .2m @ 1.58kg/m = 1.895 kg = 0.019q				
1035	Bolts and nuts above 300 mm in length	quintal	0.019	5600.00	106.40
	Plate-100xl00x6mm @ 47kg/sqm.				
	Wt. = 0.47kg. = 0.005q				
1010	Mild steel plates	quintal	0.005	4700.00	23.50
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	361.00	10.83
9999	Carriage and labour for fixing	L.S.	4.55	1.70	7.74
	TOTAL				148.47
	Add Water Charges @ 1%				1.48
	TOTAL				149.95
	Add CPOH @ 15%				22.49
	Cost of 2.4 kg				172.44
	Cost of 1 kg				71.85
	Say				71.85

10.20 Providing and fixing bolts including nuts and washers complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.10 quintal of nuts and washers.				
	MATERIAL:				
1034	Bolts and nuts up to 300 mm in length	quintal	0.10	5600.00	560.00
2205	Carriage of steel	tonne	0.01	94.80	0.95
	LABOUR:				
0103	Blacksmith 2nd class	day	0.38	361.00	137.18
0114	Beldar	day	0.38	297.00	112.86
9999	Sundries	L.S.	4.55	1.70	7.74
	TOTAL				818.73
	Add Water Charges @ 1%				8.19
	TOTAL				826.92
	Add CPOH @ 15%				124.04
	Cost of 10 kg				950.96
	Cost of 1 kg				95.10
	Say				95.10

10.21 Providing and fixing M.S. rivets of sizes in position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.10 q of rivets.				
	MATERIAL:				
1020	Mild steel rivets	quintal	0.10	5000.00	500.00
2205	Carriage of steel	tonne	0.01	94.80	0.95
	LABOUR:				
0116	Fitter (grade 1)	day	0.83	393.00	326.19
0139	Skilled Beldar (for floor rubbing etc.)	day	0.83	328.00	272.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	10.79	1.70	18.34
	TOTAL				1117.72
	Add Water Charges @ 1%				11.18
	TOTAL				1128.90
	Add CPOH @ 15%				169.34
	Cost of 10 kg				1298.24
	Cost of 1 kg				129.82
	Say				129.80

10.22 Welding by gas or electric plant including transportation of plant at site etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one cm.				
	MATERIAL:				
1214	Welding by gas plant including transportation of welding plant at site etc. complete	cm	1.00	2.00	2.00
9999	Sundries	L.S.	0.26	1.70	0.44
	TOTAL				2.44
	Add Water Charges @ 1%				0.02
	TOTAL				2.46
	Add CPOH @ 15%				0.37
	Cost of 1 cm				2.83
	Say				2.85

10.25 Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.

10.25.1 In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide. MATERIAL: (i) Unequal angles as stringers-75x50x6mm 4x12.69x5.6 = 284.25 kg. Add wastage @ 5% =14.21 kg. = 298.46kg. Say 2.985q (ii) unequal angles at sides 50x30x5mm 2xl4x0.2x3.00=I6.8kg. Add wastage @ 5% = 0.84kg. = 17.64 kg. Say 0.176q Total = 3.161q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	3.161	4650.00	14698.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(iii) plate for tread 8mm thick 14x7.5= 105.00kg+ Add wastage @ 5% = 5.25kg. Total = 110.25kg. Say 1.103q				
1010	Mild steel plates	quintal	1.103	4700.00	5184.10
	(iv) G. pipe for railing 40mm 2xl2.69m = 25.38m+ Add wastage @ 5% = 1.27m = 26.65m				
1549	G.I. pipes 40 mm dia	metre	26.65	220.00	5863.00
	(v) M.S. round bars 16mm dia. 15x0.75x2xl.58 = 35.55kg.+ Add wastage @ 5% = 1.78kg. Total = 37.33 kg. Say 0.373q				
1003	Mild steel round bar above 12 mm dia	quintal	0.373	4300.00	1603.90
2205	Carriage of steel (3.l61 + 1.103+0.373)=4.637q = 0.4637 tonne	tonne	0.4637	94.80	43.96
2271	Carriage of G.I. pipes below 100 mm dia approx. wt. 3.72x26.65=99.14kg	tonne	0.0991	94.80	9.39
1215	Welding by electric plant 23.20m	cm	2320.00	1.80	4176.00
	LABOUR:				
0102	Blacksmith 1 st class	day	1.85	393.00	727.05
0114	Beldar	day	1.25	297.00	371.25
0100	Bandhani	day	0.60	328.00	196.80
	Applying priming coat (i) steps 2.4x 14 = 33.60sqm.+ (ii) angles 4x 12.69x0.25 = 12.69sqm.+ (iii) Bars and other components = 2.00 sqm. (L.S.) Total = 48.29 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	48.29	24.95	1204.84 A
9999	Sundries	L.S.	110.89	1.70	188.51
	TOTAL				34267.45
	Add Water Charges @ 1% except on A i.e on (34,267.45 - 1,204.84 =) 33,062.61				330.63
	TOTAL				34598.08
	Add CPOH @ 15% except on A i.e on (34,598.08 - 1,204.84 =) 33,393.24				5008.99
	Cost of 533.1 kg				39607.07
	Cost of 1 kg				74.30
	Say				74.30

10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 mx1 m framed guard bar grating of 0.218 quintal. (i) M.S. flat 50x6 mm 2.4kg/per metre 5.75x2.40 = 13.8kg. + Add wastage@ 5% = 0.69kg Total = 14.49kg. say 14.5 kg				
1008	Flats up to 10 mm in thickness	quintal	0.145	4200.00	609.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) 12mm dia. Bars @ 0.89 kg/m 9x1 = 9 metre @ 0.89kg/m = 8.01 kg+ Add wastage @ 5% = 0.40kg. Total=8.41 kg. say 0.084q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.084	4500.00	378.00
2205	Carriage of steel	tonne	0.0229	94.80	2.17
1215	Welding by electric plant 60cm	cm	60.00	1.80	108.00
	LABOUR:				
0102	Blacksmith Ist class	day	0.70	393.00	275.10
0114	Beldar	day	0.50	297.00	148.50
0100	Bandhani	day	0.25	328.00	82.00
	Applying priming coat 0.65 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.60	24.95	14.97 A
9999	Sundries	L.S.	4.55	1.70	7.74
	TOTAL				1625.48
	Add Water Charges @ 1% except on A i.e on (1,625.48 - 14.97 =) 1,610.51				16.11
	TOTAL				1641.59
	Add CPOH @ 15% except on A i.e on (1,641.59 - 14.97 =) 1,626.62				243.99
	Cost of 21.8 kg				1885.58
	Cost of 1 kg				86.49
	Say				86.50

10.26 Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.

10.26.1 M.S. tube.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m. MATERIAL: M.S. tube 40mm nominal bore (medium) = 5.40m @ 3.6lkg/m= 19.49kg Add wastage @ 5% =0.097 Total = 20.46 kg				
4009	Mild steel tubes hot finished welded type	kilogram	20.46	52.00	1063.92
2205	Carriage of steel	tonne	0.0205	94.80	1.94
	Priming coat 40mm dia.Tube- 5.4x22/7x0.0483= 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	24.95	20.46 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x 1.00 = 72cm	cm	72.00	1.80	129.60
	LABOUR: Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.24	393.00	94.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.90	297.00	267.30
0100	Bandhani	day	0.12	328.00	39.36
9999	Sundries	L.S.	12.48	1.70	21.22
	TOTAL				1638.12
	Add Water Charges @ 1% except on A i.e on (1,638.12 - 20.46 =) 1,617.66				16.18
	TOTAL				1654.30
	Add CPOH @ 15% except on A i.e on (1,654.30 - 20.46 =) 1,633.84				245.08
	Cost of 19.49 kg				1899.38
	Cost of 1 kg				97.45
	Say				97.45

10.26.2 E.R.W. tubes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m.				
	MATERIAL:				
	E.R.W. tube 40mm nominal bore = 5.40m @ 3.28kg/m= 17.31kg				
	Add wastage @ 5% = 0.88 kg				
	Total = 18.59 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	18.59	70.00	1301.30
2205	Carriage of steel	tonne	0.0186	94.80	1.76
	Priming coat 40mm dia.Tube- 5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	24.95	20.46 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x 1.00 = 72cm	cm	72.00	1.80	129.60
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith Ist class	day	0.24	393.00	94.32
0114	Beldar	day	0.90	297.00	267.30
0100	Bandhani	day	0.12	328.00	39.36
9999	Sundries	L.S.	12.48	1.70	21.22
	TOTAL				1875.32
	Add Water Charges @ 1% except on A i.e on (1,875.32 - 20.46 =) 1,854.86				18.55
	TOTAL				1893.87
	Add CPOH @ 15% except on A i.e on (1,893.87 - 20.46 =) 1,873.41				281.01
	Cost of 17.71 kg				2174.88
	Cost of 1 kg				122.81
	Say				122.80

10.26.3 G.I. pipes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m.				
	MATERIAL:				
	G.I. pipe 40mm nominal bore = 5.40m				
	Add wastage @ 5% = 0.27m				
	Total = 5.67m				
1549	G.I. pipes 40 mm dia	metre	5.67	220.00	1247.40
2271	Carriage of G.I. pipes below 100 mm dia (5.67m @ 3.72 kg/m = 21.09kg)	tonne	0.0211	94.80	2.00
	Priming coat 40mm dia.Tube-5.4x22/7x 0.0483 = 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	24.95	20.46 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x 1.00 = 72cm	cm	72.00	1.80	129.60
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.24	393.00	94.32
0114	Beldar	day	0.90	297.00	267.30
0100	Bandhani	day	0.12	328.00	39.36
9999	Sundries	L.S.	12.48	1.70	21.22
	TOTAL				1821.66
	Add Water Charges @ 1% except on A i.e on (1,821.66 - 20.46 =) 1,801.20				18.01
	TOTAL				1839.67
	Add CPOH @ 15% except on A i.e on (1,839.67 - 20.46 =) 1,819.21				272.88
	Cost of 20.09 kg				2112.55
	Cost of 1 kg				105.15
	Say				105.15

10.27 Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.

10.27.1 10 x60 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
2506	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 nos	10.00	250.00	250.00
0124	Mason (brick layer) 2nd class	day	0.40	361.00	144.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries for carriage of material	L.S.	10.00	1.70	17.00
	TOTAL				530.20
	Add Water Charges @ 1%				5.30
	TOTAL				535.50
	Add CPOH @ 15%				80.32
	Cost of 10 nos				615.82
	Cost of each				61.58
	Say				61.60

10.27.2 10 x80 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
2507	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10 nos	10.00	293.00	293.00
0124	Mason (brick layer) 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.40	297.00	118.80
9999	Sundries for carriage of material	L.S.	10.00	1.70	17.00
	TOTAL				573.20
	Add Water Charges @ 1%				5.73
	TOTAL				578.93
	Add CPOH @ 15%				86.84
	Cost of 10 nos				665.77
	Cost of each				66.58
	Say				66.60

10.27.3 10 x120 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
2508	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 120 mm	10 nos	10.00	364.00	364.00
0124	Mason (brick layer) 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries for carriage of material	L.S.	10.00	1.70	17.00
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10
	Add CPOH @ 15%				107.56
	Cost of 10 nos				824.66
	Cost of each				82.47
	Say				82.45

10.27.4 10 x140 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
2509	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 140 mm	10 Nos	10.00	450.00	450.00
0124	Mason (brick layer) 2nd class	day	0.50	361.00	180.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries for carriage of material	L.S.	10.00	1.70	17.00
	TOTAL				796.00
	Add Water Charges @ 1%				7.96
	TOTAL				803.96
	Add CPOH @ 15%				120.59
	Cost of 10 nos				924.55
	Cost of each				92.46
	Say				92.45

10.27.5 10 x160 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos.				
	MATERIAL:				
2510	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 160 mm	10 Nos	10.00	570.00	570.00
0124	Mason (brick layer) 2nd class	day	0.60	361.00	216.60
0114	Beldar	day	0.60	297.00	178.20
9999	Sundries for carriage of material	L.S.	10.00	1.70	17.00
	TOTAL				981.80
	Add Water Charges @ 1%				9.82
	TOTAL				991.62
	Add CPOH @ 15%				148.74
	Cost of 10 nos				1140.36
	Cost of each				114.04
	Say				114.05

10.28 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel

members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2 kg (length approx. 1 feet).				
	MATERIAL:				
	Qty= 2 +				
	Add wastage @ 5% = 0.10				
	Total = 2.1 kg				
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	2.10	350.00	735.00
4002	Stainless steel bolts/square bar and plates	kg	1.00	130.00	130.00
	LABOUR:				
	for fabrication, assembling, errection, welding, curvaturing, grinding, buffling etc.				
0102	Blacksmith Ist class	day	0.06	393.00	23.58
0114	Beldar	day	0.20	297.00	59.40
0100	Bandhani	day	0.02	328.00	6.56
9999	Welding of stainless steel section	L.S.	30.00	1.70	51.00
9999	Curvaturing, grinding, finishing, buffing	L.S.	20.00	1.70	34.00
9999	Sundries for making good wall and floors	L.S.	7.50	1.70	12.75
	TOTAL				1052.29
	Add Water Charges @ 1%				10.52
	TOTAL				1062.81
	Add CPOH @ 15%				159.42
	Cost of 2 kg				1222.23
	Cost of 1 kg				611.12.
	Say				611.10

10.29 Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.

10.29.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window shutter 1.40x 1.10=1.54 sqm.				
	MATERIAL:				
	Wire gauze 1.40x1.10=1.54 sqm				
	Add wastage @ 10 %=0.15 sqm				
	Total=1.69 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	250.00	422.50
9999	Carriage	L.S.	1.82	1.70	3.09
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre				
	Add wastage @ 5%=0.25 m				
	Total=5.25 m				
	5.25@0.35kg/m=1.84 kg				
1008	Flats up to 10 mm in thickness	quintal	0.0184	4200.00	77.28
9999	Carriage	L.S.	1.82	1.70	3.09
	LABOUR:				
0103	Blacksmith 2nd class	day	0.17	361.00	61.37
0112	Carpenter 2nd class	day	0.17	361.00	61.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				680.11
	Add Water Charges @ 1%				6.80
	TOTAL				686.91
	Add CPOH @ 15%				103.04
	Cost of 1.54 sqm				789.95
	Cost of 1 sqm				512.95
	Say				512.95

10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window shutter 1.40x 1.10=1.54 sqm.				
	MATERIAL:				
	Wire gauze 1.40x1.10=1.54 sqm				
	Add wastage @ 10 %=0.15 sqm				
	Total=1.69 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	830.00	1402.70
9999	Carriage	L.S.	1.82	1.70	3.09
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre				
	Add wastage @ 5%=0.25 m				
	Total=5.25 m				
	5.25@0.35kg/m=1.84 kg				
1008	Flats up to 10 mm in thickness	quintal	0.0184	4200.00	77.28
9999	Carriage	L.S.	1.82	1.70	3.09
	LABOUR:				
0103	Blacksmith 2nd class	day	0.17	361.00	61.37
0112	Carpenter 2nd class	day	0.17	361.00	61.37
0114	Beldar	day	0.06	297.00	17.82
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				1660.31
	Add Water Charges @ 1%				16.60
	TOTAL				1676.91
	Add CPOH @ 15%				251.54
	Cost of 1.54 sqm				1928.45
	Cost of 1 sqm				1252.24
	Say				1252.25

10.30 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with.

10.30.1 4.0 mm thick glass panes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 glass panes (area of each pane = 0.10 sqm).				
	MATERIAL:				
	Area of glass panes =1.00 sqm +				
	Add wastage @ 10% = 0.10				
	Total =1.10 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.10	330.00	363.00
9999	Carriage	L.S.	1.82	1.70	3.09
	LABOUR:				
0119	Glazier	day	0.13	361.00	46.93
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	1.70	213.49
	TOTAL				626.51
	Add Water Charges @ 1%				6.27
	TOTAL				632.78
	Add CPOH @ 15%				94.92
	Cost of 1 sqm				727.70
	Say				727.70

10.30.2 5.5 mm thick glass panes.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 glass panes (area of each glass pane = 0.10 sqm).				
	MATERIAL:				
	Area of glass panes =1.00 sqm +				
	Add wastage @ 10% = 0.10				
	Total =1.10 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.10	500.00	550.00
9999	Carriage	L.S.	1.82	1.70	3.09
	LABOUR:				
0119	Glazier	day	0.13	361.00	46.93
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	1.70	213.49
	TOTAL				813.51
	Add Water Charges @ 1%				8.14
	TOTAL				821.65
	Add CPOH @ 15%				123.25
	Cost of 1 sqm				944.90
	Say				944.90

SUB HEAD : 11.0

FLOORING

11.1 Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks.

11.1.1 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one quintal.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
3.9	Cement mortar 1:4				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.434	3654.15	1585.90
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.02	94.80	1.90
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.08	361.00	389.88
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	1.62	297.00	481.14
0101	Bhisti	day	0.27	328.00	88.56
	TOTAL				5599.11
	Add Water Charges @ 1%				55.99
	TOTAL				5655.10
	Add CPOH @ 15%				848.26
	Cost of 10 sqm				6503.36
	Cost of 1 sqm				650.34
	Say				650.35

11.1.2 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	4800.00	2712.00
2201	Carriage of bricks	1000 Nos	565.00	284.39	160.68
3.11	Cement mortar 1:6				
	Rate as per Item Number 3.11 of SH: Mortars	cum	0.434	2960.65	1284.92
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.02	94.80	1.90
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.08	361.00	389.88
0114	Beldar	day	0.25	297.00	74.25
0115	Coolie	day	1.62	297.00	481.14
0101	Bhisti	day	0.27	328.00	88.56
	TOTAL				5298.13
	Add Water Charges @ 1%				52.98
	TOTAL				5351.11
	Add CPOH @ 15%				802.67
	Cost of 10 sqm				6153.78
	Cost of 1 sqm				615.38
	Say				615.40

11.2 Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	645.00	4800.00	3096.00
2201	Carriage of bricks	1000 Nos	645.00	284.39	183.43
0983	Fine sand (zone IV)	cum	0.15	650.00	97.50
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.15	106.64	16.00
3.18	Mud Mortar				
	Rate as per Item Number 3.18 of SH: Mortars	cum	0.15	366.20	54.93
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.90	361.00	324.90
0115	Coolie	day	1.98	297.00	588.06
0101	Bhisti	day	0.05	328.00	16.40
	TOTAL				4377.22
	Add Water Charges @ 1%				43.77
	TOTAL				4420.99
	Add CPOH @ 15%				663.15
	Cost of 10 sqm				5084.14
	Cost of 1 sqm				508.41
	Say				508.40

11.3 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.

11.3.1 40 mm thick with 20 mm nominal size stone aggregate.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1200.00	320.40
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1050.00	93.45
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	106.64	37.96
0982	Coarse sand (zone III)	cum	0.178	1120.00	199.36
2203	Carriage of coarse sand	cum	0.178	106.64	18.98
0367	Portland Cement	tonne	0.17	5240.00	890.80
2209	Carriage of cement	tonne	0.17	94.80	16.12
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	1.40	297.00	415.80
0101	Bhisti	day	1.04	328.00	341.12
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	40.43	1.70	68.73
	TOTAL				2727.31
	Add Water Charges @ 1%				27.27
	TOTAL				2754.58
	Add CPOH @ 15%				413.19
	Cost of 10 sqm				3167.77
	Cost of 1 sqm				316.78
	Say				316.80

11.4 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1200.00	320.40
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1050.00	93.45
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	106.64	37.96
0982	Coarse sand (zone III)	cum	0.178	1120.00	199.36
2203	Carriage of coarse sand	cum	0.178	106.64	18.98
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1100.00	126.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	106.64	12.26
0367	Portland Cement	tonne	0.211	5240.00	1105.64
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.231	94.80	21.90
7254	Hardening compound	litre	2.44	40.00	97.60
9999	Carriage of hardening compound	L.S.	2.73	1.70	4.64
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	2.15	361.00	776.15
0114	Beldar	day	1.60	297.00	475.20
0115	Coolie	day	1.88	297.00	558.36
0101	Bhisti	day	0.27	328.00	88.56
9999	Sundries	L.S.	53.82	1.70	91.49
	TOTAL				4133.25
	Add Water Charges @ 1%				41.33
	TOTAL				4174.58
	Add CPOH @ 15%				626.19
	Cost of 10 sqm				4800.77
	Cost of 1 sqm				480.08
	Say				480.10

11.5 62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.334	1200.00	400.80
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.111	1050.00	116.55
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.445	106.64	47.45
0982	Coarse sand (zone III)	cum	0.222	1120.00	248.64
2203	Carriage of coarse sand	cum	0.222	106.64	23.67
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1100.00	126.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	106.64	12.26
0367	Portland Cement	tonne	0.243	5240.00	1273.32
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.263	94.80	24.93
7254	Hardening compound	litre	2.44	40.00	97.60
9999	Carriage of handening compound	L.S.	2.73	1.70	4.64
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	2.15	361.00	776.15
0114	Beldar	day	1.86	297.00	552.42
0115	Coolie	day	1.88	297.00	558.36
0101	Bhisti	day	0.27	328.00	88.56
9999	Sundries	L.S.	53.82	1.70	91.49
	TOTAL				4548.14
	Add Water Charges @ 1%				45.48
	TOTAL				4593.62
	Add CPOH @ 15%				689.04
	Cost of 10 sqm				5282.66
	Cost of 1 sqm				528.27
	Say				528.25

11.6 Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.

11.6.1 18 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: Cement mortar 1:3 = 0.205 cum+ Add for rounding corners = 0.030 cum = 0.235				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.235	4347.70	1021.71
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.02	94.80	1.90
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.88	361.00	678.68
0115	Coolie	day	1.88	297.00	558.36
0101	Bhisti	day	0.54	328.00	177.12
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				2576.16
	Add Water Charges @ 1%				25.76
	TOTAL				2601.92
	Add CPOH @ 15%				390.29
	Cost of 10 sqm				2992.21
	Cost of 1 sqm				299.22
	Say				299.20

11.7 Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one cum.				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH Concrete work	cum	1.00	4921.70	4921.70 A
	Extra labour for laying in floors etc.				
0124	Mason (brick layer) 2nd class	day	0.35	361.00	126.35
0114	Beldar	day	0.18	297.00	53.46
0101	Bhisti	day	0.05	328.00	16.40
9999	Sundries	L.S.	19.76	1.70	33.59
	TOTAL				5151.50
	Add Water Charges @ 1% except on A i.e on (5,151.50 - 4,921.70 =) 229.80				2.30
	TOTAL				5153.80
	Add CPOH @ 15% except on A i.e on (5,153.80 - 4,921.70 =) 232.10				34.82
	Cost of 1 cum				5188.62
	Say				5188.60

11.8 Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.36	361.00	129.96
0114	Beldar	day	0.36	297.00	106.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Chequered plate etc.	L.S.	13.52	1.70	22.98
	TOTAL				259.86
	Add Water Charges @ 1%				2.60
	TOTAL				262.46
	Add CPOH @ 15%				39.37
	Cost of 10 sqm				301.83
	Cost of 1 sqm				30.18
	Say				30.20

11.9 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume including cement slurry etc. complete.

11.9.1 Dark shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1050.00	238.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1050.00	79.80
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	106.64	32.31
0982	Coarse sand (zone III)	cum	0.151	1120.00	169.12
2203	Carriage of coarse sand	cum	0.151	106.64	16.10
0367	Portland Cement	tonne	0.109	5240.00	571.16
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.129	94.80	12.23
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	200.00	174.40
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.64	5.44
0367	Portland Cement	tonne	0.0405	5240.00	212.22
2209	Carriage of cement	tonne	0.0405	94.80	3.84
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
0874	Black colour dark shade pigment 3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg	kilogram	2.84	55.00	156.20
9999	Carriage of pigment & marble powder etc.	L.S.	3.64	1.70	6.19
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				4565.77
	Add Water Charges @ 1%				45.66
	TOTAL				4611.43
	Add CPOH @ 15%				691.71
	Cost of 10 sqm				5303.14
	Cost of 1 sqm				530.31
	Say				530.30

11.9.2 Light shade pigment with white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	530.30	5303.00 A
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	75.00	213.00
0874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-2.84	55.00	-156.20
0368	White Cement Deduct for	tonne	0.0405	14000.00	567.00
0367	Portland Cement	tonne	-0.0405	5240.00	-212.22
	TOTAL				5714.58
	Add Water Charges @ 1% except on A i.e on (5,714.58 - 5,303.00 =) 411.58				4.12
	TOTAL				5718.70
	Add CPOH @ 15% except on A i.e on (5,718.70 - 5,303.00 =) 415.70				62.36
	Cost of 10 sqm				5781.06
	Cost of 1 sqm				578.11
	Say				578.10

11.9.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	530.30	5303.00 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0876	Green or blue medium shade pigment	kilogram	2.84	65.00	184.60
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.0203	14000.00	284.20
	Deduct for				
0367	Portland Cement	tonne	-0.0203	5240.00	-106.37
	TOTAL				5509.23
	Add Water Charges @ 1% except on A i.e on (5,509.23 - 5,303.00 =) 206.23				2.06
	TOTAL				5511.29
	Add CPOH @ 15% except on A i.e on (5,511.29 - 5,303.00 =) 208.29				31.24
	Cost of 10 sqm				5542.53
	Cost of 1 sqm				554.25
	Say				554.25

11.9.4 White cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1050.00	238.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1050.00	79.80
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	106.64	32.31
0982	Coarse sand (zone III)	cum	0.151	1120.00	169.12
2203	Carriage of coarse sand	cum	0.151	106.64	16.10
0367	Portland Cement	tonne	0.109	5240.00	571.16
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.129	94.80	12.23
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.958	200.00	191.60
2268	Carriage of marble dust and/or marble chips	cum	0.056	106.64	5.97
0368	White Cement	tonne	0.0405	14000.00	567.00
2209	Carriage of cement	tonne	0.0405	94.80	3.84
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				4775.89
	Add Water Charges @ 1%				47.76
	TOTAL				4823.65
	Add CPOH @ 15%				723.55
	Cost of 10 sqm				5547.20
	Cost of 1 sqm				554.72
	Say				554.70

11.9.5 Light shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	530.30	5303.00 A
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				5359.80
	Add Water Charges @ 1% except on A i.e on (5,359.80 - 5,303.00 =) 56.80				0.57
	TOTAL				5360.37
	Add CPOH @ 15% except on A i.e on (5,360.37 - 5,303.00 =) 57.37				8.61
	Cost of 10 sqm				5368.98
	Cost of 1 sqm				536.90
	Say				536.90

11.9.6 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring less cost of dark shade pigment	sqm	10.00	530.30	5303.00 A
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
9999	Deduct for carriage of pigment	L.S.	-7.38	1.70	-12.55
	TOTAL				5134.25
	Add Water Charges @ 1% except on A i.e on (5,134.25 - 5,303.00 =) -168.75				-1.69
	TOTAL				5132.56
	Add CPOH @ 15% except on A i.e on (5,132.56 - 5,303.00 =) -170.44				-25.57
	Cost of 10 sqm				5106.99
	Cost of 1 sqm				510.70
	Say				510.70

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder : 7 marble chips) by volume, including cement slurry etc. complete.

11.10.1 Dark shade pigment with Ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	106.64	29.86
0982	Coarse sand (zone III)	cum	0.14	1120.00	156.80
2203	Carriage of coarse sand	cum	0.14	106.64	14.93
0367	Portland Cement	tonne	0.1005	5240.00	526.62
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1205	94.80	11.42
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	200.00	280.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.64	8.74
0367	Portland Cement	tonne	0.0578	5240.00	302.87
2209	Carriage of cement	tonne	0.0578	94.80	5.48
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
0874	Black colour dark shade pigment 3.5kg/ 50kg of cement = 57.80x3.5/50=4.05kg	kilogram	4.05	55.00	222.75
9999	Carriage of pigment & marble powder etc.	L.S.	5.46	1.70	9.28
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	134.55	1.70	228.74
	TOTAL				4710.42
	Add Water Charges @ 1%				47.10
	TOTAL				4757.52
	Add CPOH @ 15%				713.63
	Cost of 10 sqm				5471.15
	Cost of 1 sqm				547.12
	Say				547.10

11.10.2 Light shade pigment with white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	547.10	5471.00 A
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	4.05	75.00	303.75
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-4.05	55.00	-222.75
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.0578	14000.00	809.20
	Deduct for				
0367	Portland Cement	tonne	-0.0578	5240.00	-302.87
	TOTAL				6058.33
	Add Water Charges @ 1% except on A i.e on (6,058.33 - 5,471.00 =) 587.33				5.87
	TOTAL				6064.20
	Add CPOH @ 15% except on A i.e on (6,064.20 -5,471.00 =) 593.20				88.98
	Cost of 10 sqm				6153.18
	Cost of 1 sqm				615.32
	Say				615.30

11.10.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	547.10	5471.00 A
	Add for				
0876	Green or blue medium shade pigment	kilogram	4.05	65.00	263.25
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-4.05	55.00	-222.75
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.0289	14000.00	404.60
	Deduct for				
0367	Portland Cement	tonne	-0.0289	5240.00	-151.44
	TOTAL				5764.66
	Add Water Charges @ 1% except on A i.e on (5,764.66 - 5,471.00 =) 293.66				2.94
	TOTAL				5767.60
	Add CPOH @ 15% except on A i.e on (5,767.60 -5,471.00 =) 296.60				44.49
	Cost of 10 sqm				5812.09
	Cost of 1 sqm				581.21
	Say				581.20

11.10.4 White cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	106.64	29.86
0982	Coarse sand (zone III)	cum	0.14	1120.00	156.80
2203	Carriage of coarse sand	cum	0.14	106.64	14.93
0367	Portland Cement	tonne	0.1005	5240.00	526.62
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1205	94.80	11.42
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	200.00	280.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.64	8.74
0368	White Cement	tonne	0.0578	14000.00	809.20
2209	Carriage of cement	tonne	0.0578	94.80	5.48
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	161.46	1.70	274.48
	TOTAL				5030.46
	Add Water Charges @ 1%				50.30
	TOTAL				5080.76
	Add CPOH @ 15%				762.11
	Cost of 10 sqm				5842.87
	Cost of 1 sqm				584.29
	Say				584.30

11.10.5 Light shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	547.10	5471.00 A
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	75.00	213.00
	Deduct for				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				5527.80
	Add Water Charges @ 1% except on A i.e on (5,527.80 - 5,471.00 =) 56.80				0.57
	TOTAL				5528.37
	Add CPOH @ 15% except on A i.e on (5,528.37 - 5,471.00 =) 57.37				8.61
	Cost of 10 sqm				5536.98
	Cost of 1 sqm				553.70
	Say				553.70

11.10.6 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	106.64	29.86
0982	Coarse sand (zone III)	cum	0.14	1120.00	156.80
2203	Carriage of coarse sand	cum	0.14	106.64	14.93
0367	Portland Cement	tonne	0.1005	5240.00	526.62
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1205	94.80	11.42
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	200.00	280.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.64	8.74
0367	Portland Cement	tonne	0.0578	5240.00	302.87
2209	Carriage of cement	tonne	0.0578	94.80	5.48
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	134.55	1.70	228.74
	TOTAL				4478.39
	Add Water Charges @ 1%				44.78
	TOTAL				4523.17
	Add CPOH @ 15%				678.48
	Cost of 10 sqm				5201.65
	Cost of 1 sqm				520.17
	Say				520.15

11.11 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement Slurry etc. complete.

11.11.1 Dark shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1050.00	63.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.25	106.64	26.66
0982	Coarse sand (zone III)	cum	0.125	1120.00	140.00
2203	Carriage of coarse sand	cum	0.125	106.64	13.33
0367	Portland Cement	tonne	0.0897	5240.00	470.03
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1097	94.80	10.40
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.734	200.00	346.80
2268	Carriage of marble dust and/or marble chips	cum	0.102	106.64	10.88
0367	Portland Cement	tonne	0.081	5240.00	424.44
2209	Carriage of cement	tonne	0.081	94.80	7.68
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
0874	Black colour dark shade pigment @ 3.5kg/50kg of cement = 81x3.5/50=5.67kg	kilogram	5.67	55.00	311.85
9999	Carriage of pigment & marble powder etc.	L.S.	6.24	1.70	10.61
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors d	ay	1.60	350.00	560.00
9999	Sundries	L.S.	156.13	1.70	265.42
	TOTAL				4924.53
	Add Water Charges @ 1%				49.25
	TOTAL				4973.78
	Add CPOH @ 15%				746.07
	Cost of 10 sqm				5719.85
	Cost of 1 sqm				571.99
	Say				572.00

11.11.2 Light shade pigment with white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	572.00	5720.00 A
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	5.67	75.00	425.25
	Deduct				
0874	Black colour dark shade pigment	kilogram	-5.67	55.00	-311.85
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.081	14000.00	1134.00
	Deduct for				
0367	Portland Cement	tonne	-0.081	5240.00	-424.44
	TOTAL				6542.96
	Add Water Charges @ 1% except on A i.e on (6,542.96 - 5,720.00 =) 822.96				8.23
	TOTAL				6551.19
	Add CPOH @ 15% except on A i.e on (6,551.19 - 5,720.00 =) 831.19				124.68
	Cost of 10 sqm				6675.87
	Cost of 1 sqm				667.59
	Say				667.60

11.11.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring Add difference of cost due to using medium shade pigment instead of dark shade pigment	sqm	10.00	572.00	5720.00 A
	Add for				
0876	Green or blue medium shade pigment	kilogram	5.67	65.00	368.55
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-5.67	55.00	-311.85
	Add difference of cost due to using white cement instead of grey cement				
0368	White Cement	tonne	0.0405	14000.00	567.00
	Deduct				
0367	Portland Cement	tonne	-0.0405	5240.00	-212.22
	TOTAL				6131.48
	Add Water Charges @ 1% except on A i.e on (6,131.48 - 5,720.00 =) 411.48				4.11
	TOTAL				6135.59
	Add CPOH @ 15% except on A i.e on (6,135.59 - 5,720.00 =) 415.59				62.34
	Cost of 10 sqm				6197.93
	Cost of 1 sqm				619.79
	Say				619.80

11.11.4 White cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1050.00	63.00
2202	Carriage of stone aggregate below 40 mm	cum	0.25	106.64	26.66
0982	Coarse sand (zone III)	cum	0.125	1120.00	140.00
2203	Carriage of coarse sand	cum	0.125	106.64	13.33
0367	Portland Cement	tonne	0.0897	5240.00	470.03
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1097	94.80	10.40
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	200.00	383.20
2268	Carriage of marble dust and/or marble chips	cum	0.1128	106.64	12.03
0368	White Cement	tonne	0.081	14000.00	1134.00
2209	Carriage of cement	tonne	0.081	94.80	7.68
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	134.55	1.70	228.74
	TOTAL				5312.50
	Add Water Charges @ 1%				53.12
	TOTAL				5365.62
	Add CPOH @ 15%				804.84
	Cost of 10 sqm				6170.46
	Cost of 1 sqm				617.05
	Say				617.05

11.11.5 Light shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment	sqm	10.00	572.00	5720.00 A
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	5.67	75.00	425.25
	Deduct for				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-5.67	55.00	-311.85
	TOTAL				5833.40
	Add Water Charges @ 1% except on A i.e on (5,833.40 - 5,720.00 =) 113.40				1.13
	TOTAL				5834.53
	Add CPOH @ 15% except on A i.e on (5,834.53 - 5,720.00 =) 114.53				17.18
	Cost of 10 sqm				5851.71
	Cost of 1 sqm				585.17
	Say				585.15

11.11.6 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1050.00	63.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.25	106.64	26.66
0982	Coarse sand (zone III)	cum	0.125	1120.00	140.00
2203	Carriage of coarse sand	cum	0.125	106.64	13.33
0367	Portland Cement	tonne	0.0897	5240.00	470.03
0367	Portland Cement	tonne	0.02	5240.00	104.80
2209	Carriage of cement	tonne	0.1097	94.80	10.40
	for top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	200.00	383.20
2268	Carriage of marble dust and/or marble chips	cum	0.1128	106.64	12.03
0367	Portland Cement	tonne	0.081	5240.00	424.44
2209	Carriage of cement	tonne	0.081	94.80	7.68
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	361.00	646.19
0114	Beldar	day	1.99	297.00	591.03
0101	Bhisti	day	1.04	328.00	341.12
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	393.00	11.79
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries	L.S.	134.55	1.70	228.74
	TOTAL				4602.94
	Add Water Charges @ 1%				46.03
	TOTAL				4648.97
	Add CPOH @ 15%				697.35
	Cost of 10 sqm				5346.32
	Cost of 1 sqm				534.63
	Say				534.65

11.12 Marble chips skirting upto 30 cm height, rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size, laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume.

11.12.1 18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand).

11.12.1.1 Dark shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 12mm thick cement mortar 1:3 = 0.144+				
	Extra for rounding = 0.03 =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars Top layer 6mm thick	cum	0.174	4347.70	756.50
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	200.00	174.40
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.64	5.44
0367	Portland Cement	tonne	0.0405	5240.00	212.22
2209	Carriage of cement	tonne	0.0405	94.80	3.84
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
0874	Black colour dark shade pigment @ 3.5kg/50kg of cement =40.5x3.5/50=2.84kg	kilogram	2.84	55.00	156.20
9999	Carriage of pigment & marble powder etc.	L.S.	3.64	1.70	6.19
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.00	361.00	1083.00
0114	Beldar	day	3.00	297.00	891.00
0101	Bhisti	day	1.00	328.00	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	328.00	2296.00
9999	Sundries	L.S.	201.89	1.70	343.21
	TOTAL				6263.00
	Add Water Charges @ 1%				62.63
	TOTAL				6325.63
	Add CPOH @ 15%				948.84
	Cost of 10 sqm				7274.47
	Cost of 1 sqm				727.45
	Say				727.45

11.12.1.2 Light shade pigment with white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	727.45	7274.50 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
	Add for				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.0405	14000.00	567.00
	Deduct for				
0367	Portland Cement	tonne	-0.0405	5240.00	-212.22
	TOTAL				7686.08
	Add Water Charges @ 1% except on A i.e on (7,686.08 - 7,274.50 =) 411.58				4.12
	TOTAL				7690.20
	Add CPOH @ 15% except on A i.e on (7,690.20 - 7,274.50 =) 415.70				62.36
	Cost of 10 sqm				7752.56
	Cost of 1 sqm				775.26
	Say				775.25

11.12.1.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	727.45	7274.50 A
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				
	Add for				
0876	Green or blue medium shade pigment	kilogram	2.84	65.00	184.60
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.0203	14000.00	284.20
	Deduct for				
0367	Portland Cement	tonne	-0.0203	5240.00	-106.37
	TOTAL				7480.73
	Add Water Charges @ 1% except on A i.e on (7,480.73 - 7,274.50 =) 206.23				2.06
	TOTAL				7482.79
	Add CPOH @ 15% except on A i.e on (7,482.79 - 7,274.50 =) 208.29				31.24
	Cost of 10 sqm				7514.03
	Cost of 1 sqm				751.40
	Say				751.40

11.12.1.4 White cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	For under layer of 12mm thick cement mortar 1:3 = 0.144+				
	Extra for rounding = 0.03				
	Total =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars Top layer 6mm thick	cum	0.174	4347.70	756.50
0785	Marble chips up to 4 mm and down size White & black	quintal	0.958	200.00	191.60
2268	Carriage of marble dust and/or marble chips	cum	0.056	106.64	5.97
0368	White Cement	tonne	0.0405	14000.00	567.00
2209	Carriage of cement	tonne	0.0405	94.80	3.84
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.00	361.00	1083.00
0114	Beldar	day	3.00	297.00	891.00
0101	Bhisti	day	1.00	328.00	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	328.00	2296.00
9999	Sundries	L.S.	201.89	1.70	343.21
	TOTAL				6473.12
	Add Water Charges @ 1%				64.73
	TOTAL				6537.85
	Add CPOH @ 15%				980.68
	Cost of 10 sqm				7518.53
	Cost of 1 sqm				751.85
	Say				751.85

11.12.1.5 Light shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	727.45	7274.50 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				7331.30
	Add Water Charges @ 1% except on A i.e on (7,331.30 - 7,274.50 =) 56.80				0.57
	TOTAL				7331.87
	Add CPOH @ 15% except on A i.e on (7,331.87 - 7,274.50 =) 57.37				8.61
	Cost of 10 sqm				7340.48
	Cost of 1 sqm				734.05
	Say				734.05

11.12.1.6 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	727.45	7274.50 A
	Less cost of dark shade pigment				
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
9999	Deduct for carriage of pigment and marble dust	L.S.	-3.64	1.70	-6.19
2268	Carriage of marble dust and/or marble chips	cum	0.007	106. 64	0.75
	TOTAL				7112.86
	Add Water Charges @ 1% except on A i.e on (7,112.86 - 7,274.50 =) -161.64				1.62
	TOTAL				7111.24
	Add CPOH @ 15% except on A i.e on (7,111.24 - 7,274.50 =) -163.26				-24.49
	Cost of 10 sqm				7086.75
	Cost of 1 sqm				708.68
	Say				708.70

11.13 Providing and fixing glass strips in joints of terrazo / cement concrete floors.

11.13.1 40 mm wide and 4 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Glass strips = 10m				
	Add 10% for wastage = 1m				
	Total = 11m				
1149	Glass strip 4 mm thick 40 mm deep	metre	11.00	9.00	99.00
9999	Carriage of glass.	L.S.	2.73	1.70	4.64
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	0.25	297.00	74.25
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				291.12
	Add Water Charges @ 1%				2.91
	TOTAL				294.03
	Add CPOH @ 15%				44.10
	Cost of 10 metre				338.13
	Cost of 1 metre				33.81
	Say				33.80

11.14 Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.30	361.00	108.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.30	297.00	89.10
0115	Coolie	day	0.30	297.00	89.10
	TOTAL				286.50
	Add Water Charges @ 1%				2.86
	TOTAL				289.36
	Add CPOH @ 15%				43.40
	Cost of 10 sqm				332.76
	Cost of 1 sqm				33.28
	Say				33.30

11.15 Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete.

11.15.1 18 mm thick crazy marble stone white, black or as specified.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Under layer 25mm thick of cement Concrete 1:2:4 -10x0.025=0.25 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.25	5188.60	1297.15 A
	Cement slurry for subgrade and under large cement				
0367	Portland Cement	tonne	0.04	5240.00	209.60
2209	Carriage of cement	tonne	0.04	94.80	3.79
	LABOUR:				
	Labour for applying cement slurry				
0114	Beldar	day	0.50	297.00	148.50
	Top layer with marble pieces and gap filling with marble powder mixture				
	Marble pieces for crazy flooring				
	(Assume 70% of marble stone are and 30% of joint filer/mixture				
	7sqmx0.02m = 0.14 cum				
	0.872x0.14/0.051 = 2.40q				
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	2.40	140.00	336.00
0368	White Cement	tonne	0.0405	14000.00	567.00
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	75.00	213.00
	@ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	200.00	174.40
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.64	5.44
2209	Carriage of cement	tonne	0.0405	94.80	3.84

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of pigment & marble powder.	L.S.	3.64	1.70	6.19
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.24	94.80	22.75
	Labour for finishing, polishing and fixing-				
0123	Mason (brick layer) 1 st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
9999	Sundries including carboranadum etc.	L.S.	134.55	1.70	228.74
0101	Bhisti	day	0.54	328.00	177.12
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
	TOTAL				7506.12
	Add Water Charges @ 1% except on A i.e on (7,506.12 - 1,297.15 =) 6,208.97				62.09
	TOTAL				7568.21
	Add CPOH @ 15% except on A i. e on (7,568.21 - 1,297.15 =) 6,271.06				940.66
	Cost of 10 sqm				8508.87
	Cost of 1 sqm				850.89
	Say				850.90

11.16 Precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand).

11.16.1 Light shade pigment using white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1201	Precast terrazzo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.00	260.00	2860.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.044	5240.00	230.56
	Grey cement for slurry @ 4.4kg/sqm.				
0368	White Cement for grouting	tonne	0.044	14000.00	616.00
2209	Carriage of cement	tonne	0.088	94.80	8.34
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carborantum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				7496.13
	Add Water Charges @ 1%				74.96
	TOTAL				7571.09
	Add CPOH @ 15%				1135.66
	Cost of 10 sqm				8706.75
	Cost of 1 sqm				870.68
	Say				870.70

11.16.2 Medium shade pigment using 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1202	Precast terrazzo tiles 22 mm thick(medium shade) including 10% wastage	sqm	11.00	240.00	2640.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
3.9	Cement mortar 1:4(1 Cement: 4 Coarse sand) Rate as per Item Number 3.9 of SH: Mortars Grey cement (i) for slurry @ 4.4kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg. Total =66kg or 0.066 tonne	cum	0.224	3654.15	818.53
0367	Portland Cement 50% white cement for grouting	tonne	0.066	5240.00	345.84
0368	White Cement	tonne	0.022	14000.00	308.00
2209	Carriage of cement	tonne	0.088	94.80	8.34
0876	Green or blue medium shade pigment	kilogram	3.08	65.00	200.20
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				7052.61
	Add Water Charges @ 1%				70.53
	TOTAL				7123.14
	Add CPOH @ 15%				1068.47
	Cost of 10 sqm				8191.61
	Cost of 1 sqm				819.16
	Say				819.15

11.16.3 Dark shade pigment using ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	220.00	2420.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar I:4(ICement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for(i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total - 88kg or 0.088 tonne	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.088	5240.00	461.12
2209	Carriage of cement	tonne	0.088	94.80	8.34
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				6609.09
	Add Water Charges @ 1%				66.09
	TOTAL				6675.18
	Add CPOH @ 15%				1001.28
	Cost of 10 sqm				7676.46
	Cost of 1 sqm				767.65
	Say				767.65

11.16.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	220.00	2420.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.088	5240.00	461.12
2209	Carriage of cement	tonne	0.088	94.80	8.34
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	Less for dark shade pigment [3.08+2.84 (for tiles)]				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				6283.49
	Add Water Charges @ 1%				62.83
	TOTAL				6346.32
	Add CPOH @ 15%				951.95
	Cost of 10 sqm				7298.27
	Cost of 1 sqm				729.83
	Say				729.85

11.17 Extra if terrazo tiles are laid in treads of steps not exceeding 30 cm in width.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.22	361.00	79.42
0115	Coolie	day	0.22	297.00	65.34
0139	Skilled Beldar (for floor rubbing etc.)	day	0.65	328.00	213.20
	TOTAL				357.96
	Add Water Charges @ 1%				3.58
	TOTAL				361.54
	Add CPOH @ 15%				54.23
	Cost of 10 sqm				415.77
	Cost of 1 sqm				41.58
	Say				41.60

11.18 Precast terrazo tiles 22 mm thick with graded marble chips of sizes upto 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of.

11.18.1 Light shade pigment using white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1201	Precast terrazzo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.00	260.00	2860.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1 :3 (1Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
0368	White Cement	tonne	0.066	14000.00	924.00
	For slurry				
	For buttering tiles bed sides =44 kg. +				
	For grouting =22 kg.				
	Total = 66 kg				
2209	Carriage of cement	tonne	0.066	94.80	6.26
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	4.62	75.00	346.50
	66x3.5/50 = 4.62				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	361.00	1173.25
0115	Coolie	day	3.25	297.00	965.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	328.00	2492.80
9999	Sundries including carboranadum stone and	L.S.	161.46	1.70	274.48
	TOTAL				9737.34
	Add Water Charges @ 1%				97.37
	TOTAL				9834.71
	Add CPOH @ 15%				1475.21
	Cost of 10 sqm				11309.92
	Cost of 1 sqm				1130.99
	Say				1131.00

11.18.2 Medium shades pigment using 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1202	Precast terrazzo tiles 22 mm thick(medium shade) including wastage & breakage	sqm	11.00	240.00	2640.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:3(1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
	50% white cement for slurry				
0368	White Cement	tonne	0.033	14000.00	462.00
	50% grey cement for slurry				
0367	Portland Cement	tonne	0.033	5240.00	172.92
2209	Carriage of cement	tonne	0.066	94.80	6.26
0876	Green or blue medium shade pigment	kilogram	4.62	65.00	300.30
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	361.00	1173.25
0115	Coolie	day	3.25	297.00	965.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	328.00	2492.80
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.70	274.48
	TOTAL				9182.06
	Add Water Charges @ 1%				91.82
	TOTAL				9273.88
	Add CPOH @ 15%				1391.08
	Cost of 10 sqm				10664.96
	Cost of 1 sqm				1066.50
	Say				1066.50

11.18.3 Dark shade pigment using ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.00	220.00	2420.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar. 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
	Grey cement for slurry				
0367	Portland Cement	tonne	0.066	5240.00	345.84
2209	Carriage of cement	tonne	0.066	94.80	6.26
0874	Black colour dark shade pigment	kilogram	4.62	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	361.00	1173.25
0115	Coolie	day	3.25	297.00	965.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	328.00	2492.80
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.70	274.48
	TOTAL				8626.78
	Add Water Charges @ 1%				86.27
	TOTAL				8713.05
	Add CPOH @ 15%				1306.96
	Cost of 10 sqm				10020.01
	Cost of 1 sqm				1002.00
	Say				1002.00

11.18.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.00	220.00	2420.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
	Grey cement for sturry				
0367	Portland Cement	tonne	0.066	5240.00	345.84
2209	Carriage of cement	tonne	0.066	94.80	6.26
0874	Black colour dark shade pigment	kilogram	4.62	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	361.00	1173.25
0115	Coolie	day	3.25	297.00	965.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	328.00	2492.80
9999	Sundries including carboradum stone and polishing powder etc.	L.S.	161.46	1.70	274.48
	Less for dark shade pigment [4.62+2.84 (for tiles)]				
0874	Black colour dark shade pigment	kilogram	-7.46	55.00	-410.30
	TOTAL				8216.48
	Add Water Charges @ 1%				82.16
	TOTAL				8298.64
	Add CPOH @ 15%				1244.80
	Cost of 10 sqm				9543.44
	Cost of 1 sqm				954.34
	Say				954.35

11.19 Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand).

11.19.1 Light shade pigment using white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1227	Chequered terrazzo tiles 22 mm thick(light shade) including 10% wastage	sqm	11.00	325.00	3575.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Grey cement for slurry @ 4.4kg/sqm				
0367	Portland Cement	tonne	0.044	5240.00	230.56
	White cement for grouting				
0368	White Cement	tonne	0.044	14000.00	616.00
2209	Carriage of cement	tonne	0.088	94.80	8.34
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				8211.13
	Add Water Charges @ 1%				82.11
	TOTAL				8293.24
	Add CPOH @ 15%				1243.99
	Cost of 10 sqm				9537.23
	Cost of 1 sqm				953.72
	Say				953.70

11.19.2 Medium shade pigment using 50% white cement, 50% ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1228	Chequered terrazzo tiles 22 mm thick(medium shade) including 10% wastage	sqm	11.00	285.00	3135.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cemet: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Grey cement (i) for slurry @ 4.4kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg. Total =66kg or 0.066 tonne				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.066	5240.00	345.84
	50% white cement for grouting				
0368	White Cement	tonne	0.022	14000.00	308.00
2209	Carriage of cement	tonne	0.088	94.80	8.34
0876	Green or blue medium shade pigment	kilogram	3.08	65.00	200.20
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				7547.61
	Add Water Charges @ 1%				75.48
	TOTAL				7623.09
	Add CPOH @ 15%				1143.46
	Cost of 10 sqm				8766.55
	Cost of 1 sqm				876.66
	Say				876.65

11.19.3 Dark shade pigment using ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	250.00	2750.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Ordinary cement for				
	(i) Cement slurry @ 4.4kg/sqm = 44kg+				
	(ii) Grouting = 44 kg.				
	Total = 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	5240.00	461.12
2209	Carriage of cement	tonne	0.088	94.80	8.34
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.70	275.37
	TOTAL				6939.09
	Add Water Charges @ 1%				69.39
	TOTAL				7008.48
	Add CPOH @ 15%				1051.27
	Cost of 10 sqm				8059.75
	Cost of 1 sqm				805.98
	Say				806.00

11.19.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	250.00	2750.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cemet: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.088	5240.00	461.12
2209	Carriage of cement	tonne	0.088	94.80	8.34
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	162.59	1.70	276.40
	Less for dark shade pigment [3.08+2.84 (for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				6614.52
	Add Water Charges @ 1%				66.15
	TOTAL				6680.67
	Add CPOH @ 15%				1002.10
	Cost of 10 sqm				7682.77
	Cost of 1 sqm				768.28
	Say				768.30

11.20 Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).

11.20.1 Light shade pigment using white cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement including 10% wastage	sqm	11.00	470.00	5170.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement slury @ 4.4kg @sqm	cum	0.22	3654.15	803.91
0367	Portland Cement White cement for grouting	tonne	0.044	5240.00	230.56
0368	White Cement	tonne	0.048	14000.00	672.00
2209	Carriage of cement	tonne	0.092	94.80	8.72
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	1.00	328.00	328.00
	TOTAL				8684.52
	Add Water Charges @ 1%				86.85
	TOTAL				8771.37
	Add CPOH @ 15%				1315.71
	Cost of 10 sqm				10087.08
	Cost of 1 sqm				1008.71
	Say				1008.70

11.20.2 Medium shade pigment using 50% white cement 50% Grey cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement including 10% wastage	sqm	11.00	370.00	4070.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg. + grey cement for grouting 2.4kg/sqm. = 24 kg. Total = 68 kg	cum	0.22	3654.15	803.91
0367	Portland Cement White cement for grouting @ 2.4kg/sqm. = 24 kg	tonne	0.068	5240.00	356.32
0368	White Cement	tonne	0.024	14000.00	336.00
2209	Carriage of cement	tonne	0.092	94.80	8.72
0876	Green or blue medium shade pigment	kilogram	3.08	65.00	200.20
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	1.00	328.00	328.00
	TOTAL				7343.48
	Add Water Charges @ 1%				73.43
	TOTAL				7416.91
	Add CPOH @ 15%				1112.54
	Cost of 10 sqm				8529.45
	Cost of 1 sqm				852.95
	Say				852.95

11.20.3 Dark shade pigment using ordinary cement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	230.00	2530.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4(1 Cement: 4Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg. + For grouting = 48 kg. Total=92 kg. say 0.092 tonne				
0367	Portland Cement	tonne	0.092	5240.00	482.08
2209	Carriage of cement	tonne	0.092	94.80	8.72
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	1.00	328.00	328.00
	TOTAL				5562.44
	Add Water Charges @ 1%				55.62
	TOTAL				5618.06
	Add CPOH @ 15%				842.71
	Cost of 10 sqm				6460.77
	Cost of 1 sqm				646.08
	Say				646.10

11.20.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	230.00	2530.00
9999	Carriage of tiles	L.S.	40.43	1.70	68.73
	Cement mortar 1:4 (1 Cement 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3654.15	803.91
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg For grouting = 48 kg. Total = 92 kg. Say 0.092 tonne				
0367	Portland Cement	tonne	0.092	5240.00	482.08
2209	Carriage of cement	tonne	0.092	94.80	8.72
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0101	Bhisti	day	1.00	328.00	328.00
	Less for dark shade pigment [3.08+2.84 (for tiles)]				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				5236.84
	Add Water Charges @ 1%				52.37
	TOTAL				5289.21
	Add CPOH @ 15%				793.38
	Cost of 10 sqm				6082.59
	Cost of 1 sqm				608.26
	Say				608.25

11.21 Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.

11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).

11.21.1.1 Acid and alkali resistant tile.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick =11.11 Nos+				
	Add wastage and breakage @ 2.5% = 0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	12.00	570.00	684.00
9999	Carriage	L.S.	6.24	1.70	10.61
	10mm thick cement motar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3654.15	43.85
9999	Mortar for pointing in acid/ alkali resistant cement	L.S.	40.43	1.70	68.73
	Cement for slurry over bed @ 3.3kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid Proof cement	tonne	0.0079	8150.00	64.39
	Deduct				
0367	Portland Cement	tonne	-0.0079	5240.00	-41.40
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1031.22
	Add Water Charges @ 1%				10.31
	TOTAL				1041.53
	Add CPOH @ 15%				156.23
	Cost of 1 sqm				1197.76
	Say				1197.75

11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).

11.21.2.1 Acid and alkali resistant tile.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11Nos.+				
	Add wastage and breakage @ 2.5% = 0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	12.00	570.00	684.00
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	12mm .thick.Cement mortar, 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.014	3654.15	51.16
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid Proof cement	tonne	0.0086	8150.00	70.09
	Deduct for				
0367	Portland Cement	tonne	-0.0086	5240.00	-45.06
9999	Mortar for pointing in acid proof cement	L.S.	40.43	1.70	68.73
	Acid proof cementfor slurry over plaster 3.3kg/sqm				
7024	Acid Proof cement	tonne	0.0033	8150.00	26.90
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1084.68
	Add Water Charges @ 1%				10.85
	TOTAL				1095.53
	Add CPOH @ 15%				164.33
	Cost of 1 sqm				1259.86
	Say				1259.85

11.22 Tile work in skirting, risers of steps and dado upto 2 m height, over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.

11.22.1 Marble tiles (polished) Raj Nagar.

11.22.1.1 8 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
2751	8 mm thick marble tiles (polished) Raj Nagar including wastage	sqm	1.061	360.00	381.96
9999	Carriage of tiles	L.S.	3.90	1.70	6.63
	12mm thick cement mortar 1:3(1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for pointing in white cement	L.S.	25.35	1.70	43.10
	Cement for slurry @ 3.3kg/sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
9999	Pigment	L.S.	2.08	1.70	3.54
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of cement etc.	L.S.	16.90	1.70	28.73
	TOTAL				714.62
	Add Water Charges @ 1%				7.15
	TOTAL				721.77
	Add CPOH @ 15%				108.27
	Cost of 1 sqm				830.04
	Say				830.05

11.23 Marble stone flooring with 18 mm thick marble stone as per sample of marble approved by Engineer-in- Charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with.

11.23.1 Makrana white second quality.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	11.50	1870.00	21505.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @4.4kg/sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marble slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries including carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				26965.62
	Add Water Charges @ 1%				269.66
	TOTAL				27235.28
	Add CPOH @ 15%				4085.29
	Cost of 10 sqm				31320.57
	Cost of 1 sqm				3132.06
	Say				3132.05

11.23.2 Raj Nagar plain.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	11.50	600.00	6900.00
	Base mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marbles slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				12360.62
	Add Water Charges @ 1%				123.61
	TOTAL				12484.23
	Add CPOH @ 15%				1872.63
	Cost of 10 sqm				14356.86
	Cost of 1 sqm				1435.69
	Say				1435.70

11.23.3 Agaria White.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
7850	Agaria White marble slab plain 18 mm thick	sqm	11.50	1120.00	12880.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marbles slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				18340.62
	Add Water Charges @ 1%				183.41
	TOTAL				18524.03
	Add CPOH @ 15%				2778.60
	Cost of 10 sqm				21302.63
	Cost of 1 sqm				2130.26
	Say				2130.25

11.23.4 Black Zebra.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6019	Black Zebra marble slab plain 18 mm thick	sqm	11.50	500.00	5750.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marbles slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				11210.62
	Add Water Charges @ 1%				112.11
	TOTAL				11322.73
	Add CPOH @ 15%				1698.41
	Cost of 10 sqm				13021.14
	Cost of 1 sqm				1302.11
	Say				1302.10

11.23.5 Udaipur green marble.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6010	Udaypur green marble slab plain 18 mm thick	sqm	11.50	690.00	7935.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marbles slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				13395.62
	Add Water Charges @ 1%				133.96
	TOTAL				13529.58
	Add CPOH @ 15%				2029.44
	Cost of 10 sqm				15559.02
	Cost of 1 sqm				1555.90
	Say				1555.90

11.23.6 Pink plain marble.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6007	Pink marble slab plain 18 mm thick	sqm	11.50	645.00	7417.50
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5240.00	262.00
9999	Carriage of marbles slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.70	228.74
	TOTAL				12878.12
	Add Water Charges @ 1%				128.78
	TOTAL				13006.90
	Add CPOH @ 15%				1951.04
	Cost of 10 sqm				14957.94
	Cost of 1 sqm				1495.79
	Say				1495.80

11.24 Extra for pre finished nosing to treads of steps of marble stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 m.				
	LABOUR:				
0126	Mason (for ornamental stone work) 1st class	day	2.00	393.00	786.00
0114	Beldar	day	1.50	297.00	445.50
0139	Skilled Beldar (for floor rubbing etc.)	day	2.50	328.00	820.00
9999	Sundries	L.S.	53.82	1.70	91.49
	TOTAL				2142.99
	Add Water Charges @ 1%				21.43
	TOTAL				2164.42
	Add CPOH @ 15%				324.66
	Cost of 10 metre				2489.08
	Cost of 1 metre				248.91
	Say				248.90

11.25 Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0123	Mason (brick layer) 1st class	day	1.95	393.00	766.35
0114	Beldar	day	1.40	297.00	415.80
0115	Coolie	day	0.75	297.00	222.75
0139	Skilled Beldar (for floor rubbing etc.)	day	3.18	328.00	1043.04
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				2493.69
	Add Water Charges @ 1%				24.94
	TOTAL				2518.63
	Add CPOH @ 15%				377.79
	Cost of 10 sqm				2896.42
	Cost of 1 sqm				289.64
	Say				289.65

11.26 Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1: 4 (1 cement : 4 coarse sand).

11.26.1 25 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.50	290.00	3335.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.80	63.52
	Cement mortar 1:4(Rate as per item No. 3.9)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Cement for slurry- (i) for bedding = 44kg+ (ii) for joints = 20 kg. Total = 64 kg. or 0.064 tonne	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.064	5240.00	335.36
2209	Carriage of cement	tonne	0.064	94.80	6.07
0874	Black colour dark shade pigment	kilogram	4.50	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.20	361.00	433.20
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Sundries	L.S.	208.13	1.70	353.82
	TOTAL				9227.00
	Add Water Charges @ 1%				92.27
	TOTAL				9319.27
	Add CPOH @ 15%				1397.89
	Cost of 10 sqm				10717.16
	Cost of 1 sqm				1071.72
	Say				1071.70

11.27 Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.50	290.00	3335.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.80	63.52
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4347.70	626.07
0367	Portland Cement for slurry	tonne	0.064	5240.00	335.36
2209	Carriage of cement	tonne	0.064	94.80	6.07
0874	Black colour dark shade pigment	kilogram	4.50	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.00	361.00	1083.00
0114	Beldar	day	3.00	297.00	891.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	328.00	2296.00
9999	Sundries	L.S.	174.98	1.70	297.47
	TOTAL				9477.99
	Add Water Charges @ 1%				94.78
	TOTAL				9572.77
	Add CPOH @ 15%				1435.92
	Cost of 10 sqm				11008.69
	Cost of 1 sqm				1100.87
	Say				1100.85

11.28 40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.

11.28.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.00	160.00	1760.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3280.75	820.19
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.10	393.00	1218.30
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	0.55	297.00	163.35
0101	Bhisti	day	0.27	328.00	88.56
9999	Sundries	L.S.	10.79	1.70	18.34
	TOTAL				4487.44
	Add Water Charges @ 1%				44.87
	TOTAL				4532.31
	Add CPOH @ 15%				679.85
	Cost of 10 sqm				5212.16
	Cost of 1 sqm				521.22
	Say				521.20

11.28.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	180.00	1980.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3280.75	820.19
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.10	393.00	1218.30
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	0.55	297.00	163.35
0101	Bhisti	day	0.27	328.00	88.56
9999	Sundries	L.S.	10.79	1.70	18.34
	TOTAL				4707.44
	Add Water Charges @ 1%				47.07
	TOTAL				4754.51
	Add CPOH @ 15%				713.18
	Cost of 10 sqm				5467.69
	Cost of 1 sqm				546.77
	Say				546.75

11.29 40 mm thick fine dressed stone flooring over 20 mm (average)thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.

11.29.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.00	160.00	1760.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3280.75	820.19
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4993.40	114.85
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.90	393.00	1532.70
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	1.40	297.00	415.80
0101	Bhisti	day	0.55	328.00	180.40
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				5288.39
	Add Water Charges @ 1%				52.88
	TOTAL				5341.27
	Add CPOH @ 15%				801.19
	Cost of 10 sqm				6142.46
	Cost of 1 sqm				614.25
	Say				614.25

11.29.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	180.00	1980.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3280.75	820.19
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4993.40	114.85
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.90	393.00	1532.70
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	1.40	297.00	415.80
0101	Bhisti	day	0.55	328.00	180.40
9999	Sundries	L.S.	26.91	1.70	45.75
	TOTAL				5508.39
	Add Water Charges @ 1%				55.08
	TOTAL				5563.47
	Add CPOH @ 15%				834.52
	Cost of 10 sqm				6397.99
	Cost of 1 sqm				639.80
	Say				639.80

11.30 40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.

11.30.1 Red sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.00	160.00	1760.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3280.75	820.19
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4993.40	114.85
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.90	393.00	1532.70
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	1.40	297.00	415.80
0101	Bhisti	day	0.55	328.00	180.40
9999	Sundries	L.S.	26.91	1.70	45.75
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	328.00	202.70
0013	Machine for rubbing of floors	day	0.988	350.00	345.80
	TOTAL				5836.89
	Add Water Charges @ 1%				58.37
	TOTAL				5895.26
	Add CPOH @ 15%				884.29
	Cost of 10 sqm				6779.55
	Cost of 1 sqm				677.96
	Say				677.95

11.30.2 White sand stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	180.00	1980.00
9999	Carriage	L.S.	34.06	1.70	57.90
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total= 0.250cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.10	Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2(1 Cement: 2 stone dust) for pointing	cum	0.25	3280.75	820.19
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4993.40	114.85
	LABOUR:				
0123	Mason (brick layer) 1st class	day	3.90	393.00	1532.70
0100	Bandhani	day	1.10	328.00	360.80
0115	Coolie	day	1.40	297.00	415.80
0101	Bhisti	day	0.55	328.00	180.40
9999	Sundries	L.S.	26.91	1.70	45.75
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	328.00	202.70
0013	Machine for rubbing of floors	day	0.988	350.00	345.80
	TOTAL				6056.89
	Add Water Charges @ 1%				60.57
	TOTAL				6117.46
	Add CPOH @ 15%				917.62
	Cost of 10 sqm				7035.08
	Cost of 1 sqm				703.51
	Say				703.50

11.31 Extra for pre finished nosing in treads of steps of Kota stone / sand stone slab.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	1.50	393.00	589.50
	TOTAL				589.50
	Add Water Charges @ 1%				5.90
	TOTAL				595.40
	Add CPOH @ 15%				89.31
	Cost of 10 metre				684.71
	Cost of 1 metre				68.47
	Say				68.45

11.32 Extra for Kota stone / sand stone in treads of steps and risers using single length up to 1.05 metre.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.20	361.00	72.20
0114	Beldar	day	0.20	297.00	59.40
	TOTAL				131.60
	Add Water Charges @ 1%				1.32
	TOTAL				132.92
	Add CPOH @ 15%				19.94
	Cost of 10 sqm				152.86
	Cost of 1 sqm				15.29
	Say				15.30

11.33 25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with.

11.33.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.5x4=10 sqm. MATERIAL: Second class indian teak wood No of joints = 4000/138 = 28.97 = (29-1) = 28Nos Qty of wood required 2.5(4+0.336)x0.025 = 0.271 cum Add wastage @ 10 % = 0.027 cum = 0.2981 cum = 298.1 cudm				
1190	Second class teak wood in planks	10 cudm	298.10	725.00	21612.25
1231	Extra for selected planks of second class teakwood	10 cudm	298.10	140.00	4173.40
2204	Carriage of timber	cum	0.2981	121.88	36.33
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	200.00	75.00	150.00
	LABOUR:				
0111	Carpenter 1st class	day	2.68	393.00	1053.24
0114	Beldar	day	1.35	297.00	400.95
9999	Sundries for glue etc.	L.S.	33.28	1.70	56.58
	TOTAL				27482.75
	Add Water Charges @ 1%				274.83
	TOTAL				27757.58
	Add CPOH @ 15%				4163.64
	Cost of 10 sqm				31921.22
	Cost of 1 sqm				3192.12
	Say				3192.10

11.33.2 Second class deodar wood.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.5 x 4 = 10 sqm. MATERIAL: First class deodar wood planks No of joints = 4000/138 = 28.97 = (29-1) = 28Nos Qty of wood required 2.5(4+0.336)x0.025 = 0.271 cum Add wastage @ 10 % = 0.027 cum Total = 0.2981 cum = 298.10 cudm				
1194	Second class deodar wood in planks	10 cudm	298.10	500.00	14905.00
2500	Extra for selected planks of second class deodar wood	10 cudm	298.10	100.00	2981.00
2204	Carriage of timber	cum	0.2981	121.88	36.33
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	200.00	75.00	150.00
	LABOUR:				
0111	Carpenter 1st class	day	2.16	393.00	848.88
0114	Beldar	day	1.08	297.00	320.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for glue etc.	L.S.	26.91	1.70 4	5.75
	TOTAL				19287.72
	Add Water Charges @ 1%				192.88
	TOTAL				19480.60
	Add CPOH @ 15%				2922.09
	Cost of 10 sqm				22402.69
	Cost of 1 sqm				2240.27
	Say				2240.25

11.34 38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10mm nominal size) to be paid separately, coated with a thin layer of hot bitumen (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Bitumen blown type				
	i) For bed layer @ 2.45kg/sqm. = 2.45kg+				
	ii) For dipping blocks L.S. = 2.00kg.				
	Total = 4.45kg				
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0044	37000.00	162.80
2211	Carriage of tar / bitumen	tonne	0.0044	106.64	0.47
	1st class teak wood in scantling for wooden blocks				
	1 sqm x 0.038 m = 0.038 cum				
	Add 10 % wastage = 0.0038 cum				
	Total = 0.0418 cum or 41.80 cudm				
1187	First class teak wood in scantling	10 cudm	41.80	800.00	3344.00
2204	Carriage of timber	cum	0.0418	121.88	5.09
	LABOUR:				
0111	Carpenter 1st class	day	1.75	393.00	687.75
0114	Beldar	day	2.25	297.00	668.25
0115	Coolie	day	1.50	297.00	445.50
0130	Mistry	day	0.10	393.00	39.30
9999	Sundries such as fuel, kerosene oil, sand paper	L.S.	80.73	1.70	137.24
	TOTAL				5490.40
	Add Water Charges @ 1%				54.90
	TOTAL				5545.30
	Add CPOH @ 15%				831.80
	Cost of 1 sqm				6377.10
	Say				6377.10

11.35 Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60 cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3m (11.4+0.24kg=11.64kg).				
	MATERIAL:				
	Angle iron 50x50x5 mm +3m				
	Add wastage @ 5% +0.15m				
	Total = 3.15m @ 3.80 kg per m +11.97 kg				
	Say 0.120 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.12	4650.00	558.00
	Lugs				
	10x5 mm flat = 6x0.10 = 0.60.@0.40 kg per m = 0.24 kg				
	Add wastage @ 5% = 0.012 kg				
	Total 0.252 kg or 0.0025 qtl				
1008	Flats up to 10 mm in thickness	quintal	0.0025	4200.00	10.50
2205	Carriage of steel	tonne	0.0122	94.80	1.16
1215	Welding by electric plant	cm	6.00	1.80	10.80
	6cm (lugs)				
9999	Sundries	L.S.	9.10	1.70	15.47
	LABOUR:				
0103	Blacksmith 2nd class	day	0.09	361.00	32.49
0123	Mason (brick layer) 1st class	day	0.45	393.00	176.85
0114	Beldar	day	0.25	297.00	74.25
	Priming coat 3x0.20=0.60sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.60	24.95	14.97 A
	TOTAL				894.49
	Add Water Charges @ 1% except on A i.e on (894.49 - 14.97 =) 879.52				8.80
	TOTAL				903.29
	Add CPOH @ 15% except on A i.e on (903.29 - 14.97 =) 888.32				133.25
	Cost of 11.64 kilogram				1036.54
	Cost of 1 kilogram				89.05
	Say				89.05

11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 sqm.				
	MATERIAL:				
	Ceramic Glazed tiles = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	1.025	300.00	307.50
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing in white cement	L.S.	40.43	1.70	68.73
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				683.25
	Add Water Charges @ 1%				6.83
	TOTAL				690.08
	Add CPOH @ 15%				103.51
	Cost of 1 sqm				793.59
	Say				793.60

11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	1.025	365.00	374.12
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	3654.15	87.70
	Rate as per Item Number 3.9 of SH: Mortars				
9999	Mortar for pointing in white cement	L.S.	20.20	1.70	34.34
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				707.81
	Add Water Charges @ 1%				7.08
	TOTAL				714.89
	Add CPOH @ 15%				107.23
	Cost of 1 sqm				822.12
	Say				822.10

11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm. MATERIAL: Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm				
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	375.00	384.37
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
9999	Mortar for pointing in white cement	L.S.	20.20	1.70	34.34
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				718.06
	Add Water Charges @ 1%				7.18
	TOTAL				725.24
	Add CPOH @ 15%				108.79
	Cost of 1 sqm				834.03
	Say				834.05

11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm. MATERIAL: Rectified glazed Ceramic floor tiles 300x 300mm or more = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm				
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	515.00	527.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
9999	Mortar for pointing in white cement	L.S.	13.47	1.70	22.90
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				850.13
	Add Water Charges @ 1%				8.50
	TOTAL				858.63
	Add CPOH @ 15%				128.79
	Cost of 1 sqm				987.42
	Say				987.40

11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Rectified Glazed Ceramic floor tiles 200x 300 mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	545.00	558.62
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
9999	Mortar for pointing in white cement	L.S.	13.47	1.70	22.90
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				880.87
	Add Water Charges @ 1%				8.81
	TOTAL				889.68
	Add CPOH @ 15%				133.45
	Cost of 1 sqm				1023.13
	Say				1023.15

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.1 Size of Tile 500x500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 50x50 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	745.00	763.62
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	3654.15	87.70
	Rate as per Item Number 3.9 of SH: Mortars				
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1069.16
	Add Water Charges @ 1%				10.69
	TOTAL				1079.85
	Add CPOH @ 15%				161.98
	Cost of 1 sqm				1241.83
	Say				1241.85

11.41.2 Size of Tile 600 x 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 60x60 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	880.00	902.00
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	3654.15	87.70
	Rate as per Item Number 3.9 of SH: Mortars				
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1207.54
	Add Water Charges @ 1%				12.08
	TOTAL				1219.62
	Add CPOH @ 15%				182.94
	Cost of 1 sqm				1402.56
	Say				1402.55

11.41.3 Size of Tile 800 x 800 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 80x80 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1085.00	1112.12
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
9999	Mortar for pointing in white cement	L.S.	2.60	1.70	4.42
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1415.89
	Add Water Charges @ 1%				14.16
	TOTAL				1430.05
	Add CPOH @ 15%				214.51
	Cost of 1 sqm				1644.56
	Say				1644.55

11.41.4 Size of Tile 1000 x 1000 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 100x100 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1650.00	1691.25
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3654.15	87.70
9999	Mortar for pointing in white cement	L.S.	2.60	1.70	4.42
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				1995.02
	Add Water Charges @ 1%				19.95
	TOTAL				2014.97
	Add CPOH @ 15%				302.25
	Cost of 1 sqm				2317.22
	Say				2317.20

11.42 Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	3654.15	87.70
	Rate as per Item Number 3.9 of SH: Mortars				
9999	Mortar for pointing in white cement	L.S.	40.43	1.70	68.73
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				357.47
	Add Water Charges @ 1%				3.57
	TOTAL				361.04
	Add CPOH @ 15%				54.16
	Cost of 1 sqm				415.20
	Say				415.20

11.43 Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8731	High polymer modified quickset tile adhesive per	kg	5.00	17.00	85.00
9999	Mortar for pointing in white cement	L.S.	40.43	1.70	68.73
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.20	297.00	59.40
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.70	45.75
	TOTAL				337.48
	Add Water Charges @ 1%				3.37
	TOTAL				340.85
	Add CPOH @ 15%				51.13
	Cost of 1 sqm				391.98
	Say				392.00

11.44 Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Under layer 12 mm thick cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.14	3654.15	511.58
0124	Mason (brick layer) 2nd class	day	0.67	361.00	241.87
0114	Beldar	day	0.75	297.00	222.75
0101	Bhisti	day	0.92	328.00	301.76
9999	Scaffolding	L.S.	8.97	1.70	15.25
	Cement slurry for subgrade				
0367	Portland Cement	tonne	0.04	5240.00	209.60
2209	Carriage of cement	tonne	0.04	94.80	3.79
	Labour for applying cement slurry				
0114	Beldar	day	0.50	297.00	148.50
	Top layer with tile piece and gap filling with cement motar:				
	Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. (7.00x0.010)=0.07				
	0.872x0.07/0.051=1.20 qtl				
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	1.20	135.00	162.00
9999	Carriage of tiles	L.S.	62.40	1.70	106.08
	Cement motar 1:4 for filling of crazy tile : (300x0.01=0.03)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.03	3654.15	109.62
	Synthetic polyster triangular				
4.18	Rate as per Item No. 4.18 of SH: Cement Concrete	per bag of 50kg of cement	1.38	53.00	73.14 A
	Water proofing compound				
4.12	Rate as per Item No. 4.12 of SH: Cement Concrete	per bag of 50kg of cement	1.38	44.35	61.20 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0101	Bhisti	day	0.54	328.00	177.12
9999	Sundries	L.S.	67.25	1.70	114.32
	TOTAL				3524.18
	Add Water Charges @ 1% except on A i.e on (3,524.18 - 134.34 =) 3,389.84				33.90
	TOTAL				3558.08
	Add CPOH @ 15% except on A i.e on (3,558.08 - 134.34 =) 3,423.74				513.56
	Cost of 10 sqm				4071.64
	Cost of 1 sqm				407.16
	Say				407.15

11.45 Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1.50	1200.00	1800.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	1.50	106.64	159.96
	1 x 10 x 0.15 = 1.5cum				
	LABOUR:				
	for spreading ramming and consolidation of sub grade				
0114	Beldar	day	0.70	297.00	207.90
0115	Coolie	day	0.52	297.00	154.44
0101	Bhisti	day	0.36	328.00	118.08
	Providing and filling Jamuna sand				
2.27	Rate as per Item No. 2.27 of SH: Earth Work	cum	1.50	843.65	1265.47 A
2708	Truf Paver (500 x 500 x 40 mm)	sqm	10.00	1090.00	10900.00
	Labour for laying of Turf pave				
0123	Mason (brick layer) 1st class	day	0.50	393.00	196.50
0114	Beldar	day	1.00	297.00	297.00
9999	Sundries	L.S.	50.00	1.70	85.00
	TOTAL				15184.35
	Add Water Charges @ 1% except on A i.e on (15,184.35 - 1,265.47 =) 13,918.88				139.19
	TOTAL				15323.54
	Add CPOH @ 15% except on A i.e on (15,323.54 - 1,265.47 =) 14,058.07				2108.71
	Cost of 10 sqm				17432.25
	Cost of 1 sqm				1743.23
	Say				1743.20

11.46 Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.

11.46.1 Size of Tile 500 x 500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	745.00	763.62
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
3.8	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)	cum	0.014	4347.70	60.87
	Rate as per Item Number 3.8 of SH: Mortars				
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1076.83
	Add Water Charges @ 1%				10.77
	TOTAL				1087.60
	Add CPOH @ 15%				163.14
	Cost of 1 sqm				1250.74
	Say				1250.75

11.46.2 Size of Tile 600 x 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	880.00	902.00
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1215.21
	Add Water Charges @ 1%				12.15
	TOTAL				1227.36
	Add CPOH @ 15%				184.10
	Cost of 1 sqm				1411.46
	Say				1411.45

11.46.3 Size of Tile 800 x 800 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1085.00	1112.12
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1425.33
	Add Water Charges @ 1%				14.25
	TOTAL				1439.58
	Add CPOH @ 15%				215.94
	Cost of 1 sqm				1655.52
	Say				1655.50

11.46.4 Size of Tile 1000 x 1000 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1650.00	1691.25
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4347.70	60.87
9999	Mortar for pointing in white cement	L.S.	3.64	1.70	6.19
	Cement slurry over bed @ 3.3 kg per sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.0033	5240.00	17.29
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.25	297.00	74.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				2004.46
	Add Water Charges @ 1%				20.04
	TOTAL				2024.50
	Add CPOH @ 15%				303.68
	Cost of 1 sqm				2328.18
	Say				2328.20

11.47 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.47.1 Size of Tile 500 x 500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	745.00	763.62
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive per	kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.50	297.00	148.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1236.73
	Add Water Charges @ 1%				12.37
	TOTAL				1249.10
	Add CPOH @ 15%				187.36
	Cost of 1 sqm				1436.46
	Say				1436.45

11.47.2 Size of Tile 600 x 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8621	Vitrified floor tile 60x60 cm	sqm	1.025	880.00	902.00
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive	Per kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.50	297.00	148.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1375.11
	Add Water Charges @ 1%				13.75
	TOTAL				1388.86
	Add CPOH @ 15%				208.33
	Cost of 1 sqm				1597.19
	Say				1597.20

11.47.3 Size of Tile 800 x 800 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm. Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1085.00	1112.12
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive per	kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.50	297.00	148.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1585.23
	Add Water Charges @ 1%				15.85
	TOTAL				1601.08
	Add CPOH @ 15%				240.16
	Cost of 1 sqm				1841.24
	Say				1841.25

11.47.4 Size of Tile 1000 x 1000 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm. Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1650.00	1691.25
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive per	kg	10.00	17.00	170.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0115	Coolie	day	0.50	297.00	148.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				2164.36
	Add Water Charges @ 1%				21.64
	TOTAL				2186.00
	Add CPOH @ 15%				327.90
	Cost of 1 sqm				2513.90
	Say				2513.90

11.48 Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.

11.48.1 Size of Tile 500x500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8682	Epoxy Grout	kg	0.21	510.00	107.10
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.10	393.00	39.30
0115	Coolie	day	0.10	297.00	29.70
9999	Sundries including carriage	L.S.	5.00	1.70	8.50
	TOTAL				184.60
	Add Water Charges @ 1%				1.85
	TOTAL				186.45
	Add CPOH @ 15%				27.97
	Cost of 1 sqm				214.42
	Say				214.40

11.48 Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.

11.48.1 Size of Tile 500x500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8682	Epoxy Grout	kg	0.21	510.00	107.10
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.10	393.00	39.30
0115	Coolie	day	0.10	297.00	29.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carriage	L.S.	5.00	1.70	8.50
	TOTAL				184.60
	Add Water Charges @ 1%				1.85
	TOTAL				186.45
	Add CPOH @ 15%				27.97
	Cost of 1 sqm				214.42
	Say				214.40

11.48.2 Size of Tile 600 x 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8682	Epoxy Grout	kg	0.18	510.00	91.80
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.08	393.00	31.44
0115	Coolie	day	0.08	297.00	23.76
9999	Sundries including carriage	L.S.	5.00	1.70	8.50
	TOTAL				155.50
	Add Water Charges @ 1%				1.56
	TOTAL				157.06
	Add CPOH @ 15%				23.56
	Cost of 1 sqm				180.62
	Say				180.60

11.48.3 Size of Tile 800 x 800 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8682	Epoxy Grout	kg	0.15	510.00	76.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.06	393.00	23.58
0115	Coolie	day	0.06	297.00	17.82
9999	Sundries including carriage	L.S.	5.00	1.70	8.50
	TOTAL				126.40
	Add Water Charges @ 1%				1.26
	TOTAL				127.66
	Add CPOH @ 15%				19.15
	Cost of 1 sqm				146.81
	Say				146.80

11.48.4 Size of Tile 1000 x 1000 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
8682	Epoxy Grout	kg	0.11	510.00	56.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.04	393.00	15.72
0115	Coolie	day	0.04	297.00	11.88
9999	Sundries including carriage	L.S.	5.00	1.70	8.50
	TOTAL				92.20
	Add Water Charges @ 1%				0.92
	TOTAL				93.12
	Add CPOH @ 15%				13.97
	Cost of 1 sqm				107.09
	Say				107.10

11.49 Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.49.1 Size of Tile 500 x 500 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	745.00	763.62
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive per	kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	393.00	78.60
0115	Coolie	day	0.40	297.00	118.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1187.38
	Add Water Charges @ 1%				11.87
	TOTAL				1199.25
	Add CPOH @ 15%				179.89
	Cost of 1 sqm				1379.14
	Say				1379.15

11.49.2 Size of Tile 600 x 600 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8621	Vitrified floor tile 60x60 cm	sqm	1.025	880.00	902.00
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive per	kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	393.00	78.60
0115	Coolie	day	0.40	297.00	118.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1325.76
	Add Water Charges @ 1%				13.26
	TOTAL				1339.02
	Add CPOH @ 15%				200.85
	Cost of 1 sqm				1539.87
	Say				1539.85

11.49.3 Size of Tile 800 x 800 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1085.00	1112.12
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive	per kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	393.00	78.60
0115	Coolie	day	0.40	297.00	118.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				1535.88
	Add Water Charges @ 1%				15.36
	TOTAL				1551.24
	Add CPOH @ 15%				232.69
	Cost of 1 sqm				1783.93
	Say				1783.95

11.49.4 Size of Tile 1000 x 1000 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1650.00	1691.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	6.24	1.70	10.61
8731	High polymer modified quickset tile adhesive	per kg	10.00	17.00	170.00
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.20	393.00	78.60
0115	Coolie	day	0.40	297.00	118.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.70	45.75
	TOTAL				2115.01
	Add Water Charges @ 1%				21.15
	TOTAL				2136.16
	Add CPOH @ 15%				320.42
	Cost of 1 sqm				2456.58
	Say				2456.60

11.50 Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
9999	Mortar for pointing in white cement with matching pigment	L.S.	3.12	1.70	5.30
9999	Labour	L.S.	1.00	1.70	1.70
	TOTAL				7.00
	Add Water Charges @ 1%				0.07
	TOTAL				7.07
	Add CPOH @ 15%				1.06
	Cost of 1 sqm				8.13
	Say				8.15

11.51 Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.

a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. 18 mm thick italian marble stone slab 10.00 sqm Add for wastage 15%= 1. 50 sqm 18 mm thick Italian marble stone slab Total: 11.50 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm). Base mortar1:4 (1 cement :4 coarse sand)	sqm	11.50	3330.00	38295.00
3.9	Rate as per Item Number 3.9 of SH: Mortars Cemnt for slurry@, 4.4 kg/sqm (i) for bedding=44 kg+ (ii) for jointing= 6 kg Total=50 kg	cum	0.224	3654.15	818.53
0368	White Cement	tonne	0.05	14000.00	700.00
2209	Carriage of cement	tonne	0.05	94.80	4.74
9999	Carriage of marble slab	L.S.	26.91	1.70	45.75
	LABOUR: For finishing , polishing and fixing				
0123	Mason (brick layer) 1st class	day	1.20	393.00	471.60
0114	Beldar	day	1.00	297.00	297.00
0115	Coolie	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Mortar for pointing in white cement	L.S.	25.74	1.70	43.76
	TOTAL				44013.38
	Add Water Charges @ 1%				440.13
	TOTAL				44453.51
	Add CPOH @ 15%				6668.03
	Cost of 10 sqm				51121.54
	Cost of 1 sqm				5112.15
	Say				5112.15

11.52 Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.

a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00 sqm. MATERIAL: 18 mm thick italian marble stone slab 10.00 sqm Add for wastage 20%= 2.00 sqm Total: 12.00 sqm				
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm). Base mortar1:4 (1 cement :4 coarse sand)	sqm	12.00	3330.00	39960.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars Cemnt for slurry@, 4.4 kg/sqm (i) for bedding=44 kg+ (ii) for jointing= 6 kg Total=50 kg	cum	0.224	3654.15	818.53
0368	White Cement	tonne	0.05	14000.00	700.00
2209	Carriage of cement	tonne	0.05	94.80	4.74
9999	carriage of marble slab	L.S.	26.91	1.70	45.75
	LABOUR:				
	For finishing , polishing and fixing				
0123	Mason (brick layer) 1st class	day	1.75	393.00	687.75
0115	Coolie	day	1.25	297.00	371.25
0114	Beldar	day	1.00	297.00	297.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	328.00	1640.00
0013	Machine for rubbing of floors	day	4.00	350.00	1400.00
9999	Mortar for pointing in white cement	L.S.	25.74	1.70	43.76
	TOTAL				45968.78
	Add Water Charges @ 1%				459.69
	TOTAL				46428.47
	Add CPOH @ 15%				6964.27
	Cost of 10.00 sqm				53392.74
	Cost of 1 sqm				5339.27
	Say				5339.25

11.53 Providing and fixing Glass mossaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 8.00 sqm. Glass mossaic tiles (10 mm x 10 mm x 4mm) Add for wastage 2.5%= 0.2 sqm Total: 8.20 sqm				
	MATERIAL:				
1242	Glass mossaic tiles (20 mm x 20 mm x 4 mm).	sqm	8.20	1050.00	8610.00
1243	Tile fixing chemical adhesive	kg	20.00	34.00	680.00
1244	Cement Polymer Grout Compound	kg	10.00	34.00	340.00
1245	Acid for cleaning tiles	litre	4.00	16.00	64.00
9999	Carriage of tiles (8x6.24=49.92)	L.S.	49.92	1.70	84.86
	LABOUR:				
0123	Mason (brick layer) 1st class	day	1.60	393.00	628.80
0115	Coolie	day	1.60	297.00	475.20
9999	Sundries including carriage of adhesive etc.	L.S.	26.91	1.70	45.75
	TOTAL				10928.61
	Add Water Charges @ 1%				109.29
	TOTAL				11037.90
	Add CPOH @ 15%				1655.68
	Cost of 8 sqm				12693.58
	Cost of 1 sqm				1586.70
	Say				1586.70

11.54 Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :

a) P roviding at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.

b) S tringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80 mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.

c) P r oviding and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm.The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/ sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.

11.54.1 300 mm Finished Floor Height (FFH).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2711	MATERIAL: *Details of cost for 100.00 sqm.* FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm) (i/c 5 % wastage)	each	292.00	750.00	219000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2712	Zinc Electroplated Pedestals - 300 mm	each	360.00	140.00	50400.00
2714	Zinc Electroplated Tube Stinger	each	570.00	70.00	39900.00
2715	Machine Screw for Fixing	each	1140.00	2.00	2280.00
7048	Rawl plug 50 mm (designation 10 nos)	each	1440.00	10.00	14400.00
9999	Carriage of material	L.S.	490.00	1.70	833.00
	LABOUR:				
0111	Carpenter 1st class	day	25.00	393.00	9825.00
0114	Beldar	day	25.00	297.00	7425.00
9999	Sundries	L.S.	329.00	1.70	559.30
	TOTAL				344622.30
	Add Water Charges @ 1%				3446.22
	TOTAL				348068.52
	Add CPOH @ 15%				52210.28
	Cost of 100.00 sqm				400278.80
	Cost of 1 sqm				4002.79
	Say				4002.80

11.54.2 450 mm Finished Floor Height (FFH).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100.00 sqm.				
	MATERIAL:				
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	292.00	750.00	219000.00
2713	Zinc Electroplated Pedestals - 450 mm	each	360.00	150.00	54000.00
2714	Zinc Electroplated Tube Stinger	each	570.00	70.00	39900.00
2715	Machine Screw for Fixing	each	1140.00	2.00	2280.00
7048	Rawl plug 50 mm (designation 10 nos)	each	1440.00	10.00	14400.00
9999	Carriage of material	L.S.	490.00	1.70	833.00
	LABOUR:				
0111	Carpenter 1st class	day	25.00	393.00	9825.00
0114	Beldar	day	25.00	297.00	7425.00
9999	Sundries	L.S.	329.00	1.70	559.30
	TOTAL				348222.30
	Add Water Charges @ 1%				3482.22
	TOTAL				351704.52
	Add CPOH @ 15%				52755.68
	Cost of 100.00 sqm				404460.20
	Cost of 1 sqm				4044.60
	Say				4044.60

SUB HEAD : 12.0

ROOFING

12.1 Providing corrugated G.S. sheet roofing including vertical/ curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

12.1.1 1.00 mm thick with zinc coating not less than 275 gm/ m^2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm. MATERIAL: C.G.S. sheets 2x27 =54 Nos. of size 2.5x0.9 metre @19.35 kg each =1044.90kg. 2x27=54 Nos. of size 2.8x0.9@21.67kg. each = 1170.18kg. Total = 2215.08kg.+ Add 5% Wastage = 110.75kg. Total = 2325.83 kg. 23.26 quintals				
3050	Galvanised steel corrugated sheets	quintal	23.26	5400.00	125604.00
2302	Carriage of G.I.sheet and accessories G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos	tonne	2.326	94.80	220.50
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I..J or L hooks 8mm dia. (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	884.00	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.00	110.00	8910.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 nos	1694.00	35.00	592.90
1208	Bitumen washer	100 Nos	1694.00	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	53.82	1.70	91.49
	LABOUR:				
0130	Mistry	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	15.50	361.00	5595.50
0114	Beldar	day	15.50	297.00	4603.50
4202	Red oxide Zinc chromate primer	litre	2.53	70.00	177.10
9999	Carriage of material	L.S.	0.52	1.70	0.88
0131	Painter	day	1.13	361.00	407.93
0115	Coolie	day	1.13	297.00	335.61
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.70	85.97
0845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9999	Carriage of paint	L.S.	6.76	1.70	11.49
0131	Painter	day	2.53	361.00	913.33
0115	Coolie	day	2.53	297.00	751.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes and sandpapers	L.S.	31.98	1.70	54.37
9999	Sundries	L.S.	38.09	1.70	64.75
	TOTAL				152145.58
	Add Water Charges @ 1%				1521.46
	TOTAL				153667.04
	Add CPOH @ 15%				23050.06
	Cost of 184.518 sqm				176717.10
	Cost of 1 sqm				957.72
	Say				957.70

12.1.2 0.80 mm thick with zinc coating not less than 275 gm/ m²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm Details of length and breadth. Length = 26(laps)x0.135(each lap)=3.51 Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 m 27 (Nos. of sheets)x0.80 (width of sheet) = 21.60 length Less laps = 3.51 Length = 18.09 Breadth on one side- C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1 m MATERIAL: C.G.I.Sheets 0.8mm thick 2x27=54Nos. @15.82kg.each = 854.38kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54Nos. Of size. 2.8x0.9 @17.72kg each = 956.8kg (Y) Total of (X)+(Y) = 1811.16kg. Add wastage @5% = 90.56kg. Total = 1901.72kg = 19.02 q				
3050	Galvanised steel corrugated sheets	quintal	19.02	5400.00	102708.00
2302	Carriage of G.I.sheet and accessories	tonne	1.902	94.80	180.31
	G.I. seam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)xl7 Nos. = 884 Nos				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.00	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	810.00	110.00	8910.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 nos	1694.00	35.00	592.90
1208	Bitumen washer	100 Nos	1694.00	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	53.82	1.70	91.49
	LABOUR:				
0130	Mistry	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	15.50	361.00	5595.50
0114	Beldar	day	15.50	297.00	4603.50
4202	Red oxide Zinc chromate primer	litre	2.53	70.00	177.10
9999	Carriage of material	L.S.	0.52	1.70	0.88
0131	Painter	day	1.13	361.00	407.93
0115	Coolie	day	1.13	297.00	335.61
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.70	85.97
0845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9999	Carriage of paint	L.S.	6.76	1.70	11.49
0131	Painter	day	2.53	361.00	913.33
0115	Coolie	day	2.53	297.00	751.41
9999	Brushes and sandpapers	L.S.	31.98	1.70	54.37
9999	Sundries	L.S.	38.09	1.70	64.75
	TOTAL				129209.39
	Add Water Charges @ 1%				1292.09
	TOTAL				130501.48
	Add CPOH @ 15%				19575.22
	Cost of 184.518 sqm				150076.70
	Cost of 1 sqm				813.34
	Say				813.35

12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Length = 26(laps)x0.135(each lap)=3.51 Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 metres 27 (Nos. of sheets)x0.80 (width of sheet = 21.60 length Less laps = 3.51 Length = 18.09 Breadth on one side- C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL: C.G.I.Sheets 0.8mm thick 2x27=54Nos. @12.82kg.each = 692.28 kg(X) 2.5mx0.9m is the size of plain G.I. sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54Nos. of size-2.8x0.9 @13.38kg each = 775.44kg (Y) Total of (X)+(Y) = 1467.72kg. Add wastage @5% = 73.39kg. Total = 1541.11kg = 15.41 q				
3050	Galvanised steel corrugated sheets	quintal	15.41	5400.00	83214.00
2302	Carriage of G.I.sheet and accessories G.I. seam bolts and nuts 60cm centre to centre zig zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos	tonne	1.54	94.80	145.99
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.00	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	810.00	110.00	8910.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 nos	1694.00	35.00	592.90
1208	Bitumen washer	100 Nos	1694.00	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	53.82	1.70	91.49
	LABOUR:				
0130	Mistry	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	15.50	361.00	5595.50
0114	Beldar	day	15.50	297.00	4603.50
4202	Red oxide Zinc chromate primer	litre	2.53	70.00	177.10
9999	Carriage of material	L.S.	0.52	1.70	0.88
0131	Painter	day	1.13	361.00	407.93
0115	Coolie	day	1.13	297.00	335.61
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.70	85.97
0845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9999	Carriage of paint	L.S.	6.76	1.70	11.49
0131	Painter	day	2.53	361.00	913.33
0115	Coolie	day	2.53	297.00	751.41
9999	Brushes and sandpapers	L.S.	31.98	1.70	54.37
9999	Sundries	L.S.	38.09	1.70	64.75
	TOTAL				109681.07
	Add Water Charges @ 1%				1096.81
	TOTAL				110777.88
	Add CPOH @ 15%				16616.68
	Cost of 184.518 sqm				127394.56
	Cost of 1 sqm				690.42
	Say				690.40

12.2 Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq decimeter for chimney stacks, skylight etc.

12.2.1 1.00 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm^2 and the perimeter of the hole 3 metre.				
	LABOUR:				
0102	Blacksmith 1st class	day	0.15	393.00	58.95
0114	Beldar		0.15	297.00	44.55
	TOTAL				103.50
	Add Water Charges @ 1%				1.03
	TOTAL				104.53
	Add CPOH @ 15%				15.68
	Cost of 3 metre				120.21
	Cost of 1 metre				40.07
	Say				40.05

12.2.2 0.80 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm^2 and the perimeter of the hole 3 metre.				
	LABOUR:				
0102	Blacksmith 1st class	day	0.12	393.00	47.16
0114	Beldar	day	0.12	297.00	35.64
	TOTAL				82.80
	Add Water Charges @ 1%				0.83
	TOTAL				83.63
	Add CPOH @ 15%				12.54
	Cost of 3 metre				96.17
	Cost of 1 metre				32.06
	Say				32.05

12.2.3 0.63 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm^2 and the perimeter of the hole 3 metre.				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.12	393.00	47.16
0114	Beldar	day	0.12	297.00	35.64
	TOTAL				82.80
	Add Water Charges @ 1%				0.83
	TOTAL				83.63
	Add CPOH @ 15%				12.54
	Cost of 3 metre				96.17
	Cost of 1 metre				32.06
	Say				32.05

12.3 Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter.

12.3.1 1.00 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x 0.5 = 15.71 metre.				
	LABOUR:				
0102	Blacksmith 1st class	day	3.13	393.00	1230.09
0114	Beldar	day	6.26	297.00	1859.22
	TOTAL				3089.31
	Add Water Charges @ 1%				30.89
	TOTAL				3120.20
	Add CPOH @ 15%				468.03
	Cost of 15.71 metre				3588.23
	Cost of 1 metre				228.40
	Say				228.40

12.3.2 0.80 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x 0.5 = 15.71 metre.				
	LABOUR:				
0102	Blacksmith 1st class	day	2.50	393.00	982.50
0114	Beldar	day	5.00	297.00	1485.00
	TOTAL				2467.50
	Add Water Charges @ 1%				24.68
	TOTAL				2492.18
	Add CPOH @ 15%				373.83
	Cost of 15.71 metre				2866.01
	Cost of 1 metre				182.43
	Say				182.45

12.3.3 0.63 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x 0.5 = 15.71 metre.				
	LABOUR:				
0102	Blacksmith 1st class	day	2.50	393.00	982.50
0114	Beldar	day	5.00	297.00	1485.00
	TOTAL				2467.50
	Add Water Charges @ 1%				24.68
	TOTAL				2492.18
	Add CPOH @ 15%				373.83
	Cost of 15.71 metre				2866.01
	Cost of 1 metre				182.43
	Say				182.45

12.4 Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.

12.4.1 0.80 mm thick with zinc coating not less than 275 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.35 metres long ridge. MATERIAL: 0.80mm thick with zinc coating not less than 275gm/m² Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G.I. Sheets 0.9mx1.8m Three pieces will be 0.9m long and 0.60m wide overlapping 22.5cm. Materials: G.I. plain sheets 0.80 thick 1.80x0.90msize5Nos. @ 11.39kg. sheet = 56.95kg + Add 2% wastage = 1.14 kg. Total = 58.09 kg. or 0.58 qunital				
0992	Galvanised steel plain sheets	quintal	0.58	5200.00	3016.00
2302	Carriage of G.I.sheet and accessories	tonne	0.058	94.80	5.50
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	28.00	40.00	112.00
1211	G.I. plain washer for seam bolts	100 Nos	28.00	30.00	8.40
1208	Bitumen washer	100 Nos	28.00	30.00	8.40
9999	Carriage of seam bolts and washers	L.S.	1.82	1.70	3.09
9999	Sundries	L.S.	13.52	1.70	22.98
	LABOUR:				
0130	Mistry	day	0.40	393.00	157.20
0102	Blacksmith 1st class	day	1.20	393.00	471.60
0103	Blacksmith 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	2.40	297.00	712.80
	TOTAL				4806.77
	Add Water Charges @ 1%				48.07
	TOTAL				4854.84
	Add CPOH @ 15%				728.23
	Cost of 10.35 metre				5583.07
	Cost of 1 metre				539.43
	Say				539.45

12.4.2 0.63 mm thick with zinc coating not less than 275 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.35 metres long ridge. G.I.plain sheets 0.63mm thick 1.8x0.9m size 5 Nos. @9.23 kg. per sheet = 46.15 kg.+ Add 2% wastage = 0.91 kg. Total = 47.07 kg. Say 0.47 q				
0992	Galvanised steel plain sheets	quintal	0.47	5200.00	2444.00
2302	Carriage of G.I.sheet and accessories	tonne	0.047	94.80	4.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	28.00	40.00	112.00
1211	G.I. plain washer for seam bolts	100 Nos	28.00	30.00	8.40
1208	Bitumen washer	100 Nos	28.00	30.00	8.40
9999	Carriage of seam bolts and washers	L.S.	1.82	1.70	3.09
9999	Sundries	L.S.	13.52	1.70	22.98
	LABOUR:				
0130	Mistry	day	0.40	393.00	157.20
0102	Blacksmith 1st class	day	1.20	393.00	471.60
0103	Blacksmith 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	2.40	297.00	712.80
	TOTAL				4233.73
	Add Water Charges @ 1%				42.34
	TOTAL				4276.07
	Add CPOH @ 15%				641.41
	Cost of 10.35 metre				4917.48
	Cost of 1 metre				475.12
	Say				475.10

12.5 Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.

12.5.1 1.60 mm thick with zinc coating not less than 350 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.325m.				
	MATERIAL:				
	G.I. plain sheets 2.5x0.9m				
	4 Nos. @ 29.95kg/sheet =119.80kg.+				
	Add 2% wastage = 2.40kg.				
	Total = 122.20 kg. or 1.222 quintal				
0992	Galvanised steel plain sheets	quintal	1.222	5200.00	6354.40
2302	Carriage of G.I.sheet and accessories	tonne	0.12	94.80	11.38
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	12.00	40.00	48.00
1211	G.I. plain washer for seam bolts	100 Nos	12.00	30.00	3.60
1208	Bitumen washer	100 Nos	12.00	30.00	3.60
9999	Carriage of bolts, nuts and washers	L.S.	0.91	1.70	1.55
9999	Sundries	L.S.	13.52	1.70	22.98
	LABOUR:				
0130	Mistry	day	0.40	393.00	157.20
0102	Blacksmith 1st class	day	1.20	393.00	471.60
0103	Blacksmith 2nd class	day	0.80	361.00	288.80
0114	Beldar	day	2.40	297.00	712.80
	TOTAL				8075.91
	Add Water Charges @ 1%				80.76
	TOTAL				8156.67
	Add CPOH @ 15%				1223.50
	Cost of 9.325 metre				9380.17
	Cost of 1 metre				1005.92
	Say				1005.90

12.6 Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand).

12.6.1 1.00 mm thick with zinc coating not less than 275 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 12.125 metres. Consider a length of flashing 12.125 metres MATERIAL: G.I. plain sheet 1.25mm thick 3.2x0.75m 2 Nos. @ 20.64 kg. =41.28 kg.+ Add 2% wastage = 0.83 kg Total = 42.11 kg. or 0.4211 quintal				
0992	Galvanised steel plain sheets	quintal	0.4211	5200.00	2189.72
2302	Carriage of G.I.sheet and accessories	tonne	0.041	94.80	3.89
0222	Seam bolts and nuts 6 mm dia and 25 mm long (taking 2 bolts per joints)	10 Nos	6.00	40.00	24.00
1207	G.I. Limpet washer	100 nos	6.00	35.00	2.10
1208	Bitumen washer	100 Nos	6.00	30.00	1.80
9999	Carriage of G.I. seam bolts and washers	L.S.	0.39	1.70	0.66
9999	Sundries	L.S.	10.79	1.70	18.34
	LABOUR:				
0130	Mistry	day	0.50	393.00	196.50
0102	Blacksmith 1st class	day	1.48	393.00	581.64
0103	Blacksmith 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	3.00	297.00	891.00
	TOTAL				4270.65
	Add Water Charges @ 1%				42.71
	TOTAL				4313.36
	Add CPOH @ 15%				647.00
	Cost of 12.125 metre				4960.36
	Cost of 1 metre				409.10
	Say				409.10

12.7 Providing and fixing 15 cm wide, 45 cm overall semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.

12.7.1 0.80 mm thick with zinc coating not less than 275 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.04m. 0.80mm thick with zinc coating not less than 275gm/m2 Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 Nos. Wt. = 2x15.82=31.64 kg. Total = 0.3164quintal				
0992	Galvanised steel plain sheets	quintal	0.3164	5200.00	1645.28
2302	Carriage of G.I.sheet and accessories	tonne	0.0316	94.80	3.00
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.00	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.00	32.00	22.40
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	5.33	1.70	9.06
	LABOUR:				
0102	Blacksmith 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	12.61	1.70	21.44
0130	Mistry	day	0.28	393.00	110.04
0102	Blacksmith 1st class	day	0.84	393.00	330.12
0112	Carpenter 2nd class	day	0.62	361.00	223.82
0114	Beldar	day	1.68	297.00	498.96
	TOTAL				3950.34
	Add Water Charges @ 1%				39.50
	TOTAL				3989.84
	Add CPOH @ 15%				598.48
	Cost of 9.04 metre				4588.32
	Cost of 1 metre				507.56
	Say				507.55

12.7.2 0.63 mm thick with zinc coating not less than 275 gm/ m².

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.04m. 0.63mm thick with zinc coating not less than 275gm/m² Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 Nos. Wt. = 2x11.82=23.64 kg. Total = 0.2364quintal				
0992	Galvanised steel plain sheets	quintal	0.2364	5200.00	1229.28
2302	Carriage of G.I.sheet and accessories	tonne	0.0236	94.80	2.24
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.00	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.00	32.00	22.40
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	5.33	1.70	9.06
	LABOUR:				
0102	Blacksmith 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	12.61	1.70	21.44
0130	Mistry	day	0.28	393.00	110.04
0102	Blacksmith 1st class	day	0.84	393.00	330.12
0112	Carpenter 2nd class	day	0.62	361.00	223.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.68	297.00	498.96
	TOTAL				3533.58
	Add Water Charges @ 1%				35.34
	TOTAL				3568.92
	Add CPOH @ 15%				535.34
	Cost of 9.04 metre				4104.26
	Cost of 1 metre				454.01
	Say				454.00

12.8 Providing high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS : 14871) roofing up to any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 216.14 sqm area of roof upto 60° pitch. Upto 60 degree pitch Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- 20.2x10.70m = 216.14 sqm. MATERIAL: Sheets used = 2x20 Nos. x3.00 mx 1.05m= 126.00sqm+ 2x20Nos.x2.50mx1.05m=105.00sqm. Total = 231.00sqm. + Add 3% wastage = 6.93 Total = 237.93sqm				
0223	Fibre (high impact poly propelene reinforced) cement corrugated sheet 6 mm thick 2x20x0.42147= 1.68588 + 2x20x0.35123= 1.4049 = 3.0908+ Add 3 % wastage = 0.092 = 3.1835 Say 3.184 t	sqm	237.93	250.00	59482.50
2273	Carriage of A.C.sheet and accessories	tonne	3.184	94.80	301.84
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	476.00	110.00	5236.00
1208	Bitumen washer	100 Nos	476.00	30.00	142.80
1209	G.I. plain washer thick	100 Nos	476.00	35.00	166.60
9999	Carriage of bolts and washers	L.S.	8.06	1.70	13.70
9999	Sundries	L.S.	39.52	1.70	67.18
	LABOUR:				
0130	Mistry	day	2.34	393.00	919.62
0112	Carpenter 2nd class	day	9.34	361.00	3371.74
0114	Beldar	day	9.34	297.00	2773.98
	TOTAL				72475.96
	Add Water Charges @ 1%				724.76
	TOTAL				73200.72
	Add CPOH @ 15%				10980.11
	Cost of 216.14 sqm				84180.83
	Cost of 1 sqm				389.47
	Say				389.45

12.9 Extra for straight cutting in polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3 metres periphery.				
	Area of cutting 0.9mx0.6m=0.54sqm.				
	Perimeter = 3 metres				
	LABOUR:				
0111	Carpenter 1st class	day	0.12	393.00	47.16
0114	Beldar	day	0.12	297.00	35.64
	TOTAL				82.80
	Add Water Charges @ 1%				0.83
	TOTAL				83.63
	Add CPOH @ 15%				12.54
	Cost of 3 metre				96.17
	Cost of 1 metre				32.06
	Say				32.05

12.10 Extra for circular cutting in polypropylene reinforced cement corrugated / semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4 holes of 0.72 metre diameter i.e. 9.05 metre periphery.				
	LABOUR:				
0111	Carpenter 1st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				690.00
	Add Water Charges @ 1%				6.90
	TOTAL				696.90
	Add CPOH @ 15%				104.54
	Cost of 9.05 metre				801.44
	Cost of 1 metre				88.56
	Say				88.55

12.11 Extra for providing and fixing wind ties of 40x6 mm flat iron section.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 30 metres.				
	Extra for providing and fixing wind ties of 40x6mm flat iron section.				
	M.S. flat 40x6mm = 30 metres+ wastage @ 5% = 1.5 metres				
	= 31.50 metres @ 1.9 kg per metre				
	= 59.85 kg. = 0.5985 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.5985	4200.00	2513.70
2205	Carriage of steel	tonne	0.06	94.80	5.69
9999	Sundries	L.S.	20.67	1.70	35.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				2899.53
	Add Water Charges @ 1%				29.00
	TOTAL				2928.53
	Add CPOH @ 15%				439.28
	Cost of 30 metre				3367.81
	Cost of 1 metre				112.26
	Say				112.25

12.12 Providing and fixing ridges and hips in fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.

12.12.1 Corrugated serrated adjustable ridges.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for length of ridge 20.2 metres. One piece corrugated serrated adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre MATERIAL: Ridge piece required each of 1.22mm length = 19Nos. + Add 5% wastage = 0.95 No. 19.95 Nos x 1.22 = 24.339 metre				
0225	Fibre (high impact poly propelene reinforced) cement corrugate serrated adjustable ridge	metre	24.339	210.00	5111.19
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.70	22.98
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0130	Mistry	day	0.14	393.00	55.02
0112	Carpenter 2nd class	day	0.55	361.00	198.55
0114	Beldar	day	1.64	297.00	487.08
	TOTAL				5886.31
	Add Water Charges @ 1%				58.86
	TOTAL				5945.17
	Add CPOH @ 15%				891.78
	Cost of 20.2 metre				6836.95
	Cost of 1 metre				338.46
	Say				338.45

12.12.2 Plain wing adjustable ridges.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for length of ridge 20.2 metres. Plain wing adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre MATERIAL: Ridge piece required each of 1.22m length = 19 Nos. + Add 5% wastage = 0.95 No. 19.95 nos x 1.22 = 24.339 metre				
0226	Fibre (high impact poly propelene reinforced) cement plain wing adjustable ridge	metre	24.339	200.00	4867.80
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.70	22.98
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0130	Mistry	day	0.14	393.00	55.02
0112	Carpenter 2nd class	day	0.55	361.00	198.55
0114	Beldar	day	1.64	297.00	487.08
	TOTAL				5642.92
	Add Water Charges @ 1%				56.43
	TOTAL				5699.35
	Add CPOH @ 15%				854.90
	Cost of 20.2 metre				6554.25
	Cost of 1 metre				324.47
	Say				324.45

12.12.3 Close fitting adjustable ridges.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for length of ridge 20.2 metres. Close fitting adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre No. of ridge pairs required, of length 1.22m each = 22.00 Nos. + Add 5% wastage =1.10 Nos. Total = 23.10 Nos.x 1.22= 28.182 metre				
0224	Fibre (high impact poly propelene reinforced) cement close fitting adjustable ridge	metre	28.182	210.00	5918.22
9999	Carriage	L.S.	16.12	1.70	27.40
9999	Sundries	L.S.	7.15	1.70	12.16
	LABOUR:				
0130	Mistry	day	0.14	393.00	55.02
0112	Carpenter 2nd class	day	0.55	361.00	198.55
0114	Beldar	day	1.64	297.00	487.08
	TOTAL				6698.43
	Add Water Charges @ 1%				66.98
	TOTAL				6765.41
	Add CPOH @ 15%				1014.81
	Cost of 20.2 metre				7780.22
	Cost of 1 metre				385.16
	Say				385.15

12.12.4 Unserrated adjustable hips.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a shed with hip as 20.2 metres. Unserrated adjustable hips Consider a shed with hip as 20.2 metres No. of hi pieces required = 19 pairs Length of each pair 1.22 metres Add 5 % wastage = 0.95 pairs Total = 19.95 pairs x 1.22 = 24.339 metre				
0227	Fibre (high impact poly propelene reinforced) cement unserrated adjustable ridge for hips	metre	24.339	300.00	7301.70
9999	Carriage	L.S.	6.76	1.70	11.49
9999	Sundries	L.S.	6.63	1.70	11.27
	LABOUR:				
0130	Mistry	day	0.14	393.00	55.02
0112	Carpenter 2nd class	day	0.55	361.00	198.55
0114	Beldar	day	1.64	297.00	487.08
	TOTAL				8065.11
	Add Water Charges @ 1%				80.65
	TOTAL				8145.76
	Add CPOH @ 15%				1221.86
	Cost of 20.2 metre				9367.62
	Cost of 1 metre				463.74
	Say				463.75

12.13 Providing and fixing fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete.

12.13.1 Corrugated apron pieces.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shed of 20.2 metres completed length MATERIAL: Corrugated appron pieces of 1.12 metre length = 20 Nos.+ Add 5% wastage = 1.00 No. Total = 21 Nos.x 1.12=23.52 metre				
0228	Fibre (high impact poly propelene reinforced) cement corrugated apron piece	metre	23.52	225.00	5292.00
9999	Carriage of appron pieces. (The appron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.70	5.52
9999	Sundries	L.S.	3.25	1.70	5.52
	LABOUR:				
0130	Mistry	day	0.07	393.00	27.51
0112	Carpenter 2nd class	day	0.28	361.00	101.08
0114	Beldar	day	0.82	297.00	243.54
	TOTAL				5675.17
	Add Water Charges @ 1%				56.75
	TOTAL				5731.92
	Add CPOH @ 15%				859.79
	Cost of 20.2 metre				6591.71
	Cost of 1 metre				326.32
	Say				326.30

12.13.2 Eave's filler pieces.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for eaves filler for a shed of 20.2 metres complete length.				
	MATERIAL:				
	Eaves filler pieces of 1.016 metres length = 20 Nos.+				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos				
0229	Fibre (high impact poly propelene reinforced) cement eaves filler piece	each	21.00	175.00	3675.00
9999	(The eaves filler pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.70	5.52
9999	Sundries	L.S.	3.25	1.70	5.52
	LABOUR:				
0130	Mistry	day	0.07	393.00	27.51
0112	Carpenter 2nd class	day	0.28	361.00	101.08
0114	Beldar	day	0.82	297.00	243.54
	TOTAL				4058.17
	Add Water Charges @ 1%				40.58
	TOTAL				4098.75
	Add CPOH @ 15%				614.81
	Cost of 20.2 metre				4713.56
	Cost of 1 metre				233.34
	Say				233.35

12.13.3 North light curves.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for North light curve 20.2 metres long complete length.				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0230	Fibre (high impact poly propelene reinforced) cement north light curves	metre	21.336	310.00	6614.16
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.00	110.00	440.00
1209	G.I. plain washer thick	100 Nos	40.00	35.00	14.00
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.70	16.80
9999	Sundries	L.S.	6.24	1.70	10.61
	LABOUR:				
0130	Mistry	day	0.10	393.00	39.30
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				7552.17
	Add Water Charges @ 1%				75.52
	TOTAL				7627.69
	Add CPOH @ 15%				1144.15
	Cost of 20.2 metre				8771.84
	Cost of 1 metre				434.25
	Say				434.25

12.13.4 Ventilator curves.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for ventilator curve 20.2 metres long complete length.				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0231	Fibre (high impact poly propelene reinforced) cement ventilator curves	each	21.336	410.00	8747.76
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.00	110.00	440.00
1209	G.I. plain washer thick	100 Nos	40.00	35.00	14.00
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.88	1.70	16.80
9999	Sundries	L.S.	6.24	1.70	10.61
	LABOUR:				
0130	Mistry	day	0.10	393.00	39.30
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				9685.77
	Add Water Charges @ 1%				96.86
	TOTAL				9782.63
	Add CPOH @ 15%				1467.39
	Cost of 20.2 metre				11250.02
	Cost of 1 metre				556.93
	Say				556.95

12.13.5 Barge boards.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.70 metres.				
	MATERIAL:				
	Barge boards 2.50metres = 4 Nos. x 2.50 = 10.00 metre				
	Add 5% wastage = 0.50 metre.				
	Total = 10.50 metre				
0232	Fibre (high impact poly propelene reinforced) cement barge boards 6 mm thick	metre	10.50	410.00	4305.00
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.00	40.00	20.00
1211	G.I. plain washer for seam bolts	100 Nos	10.00	30.00	3.00
1208	Bitumen washer	100 Nos	5.00	30.00	1.50
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.36	1.70	15.91
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0130	Mistry	day	0.04	393.00	15.72
0112	Carpenter 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	0.40	297.00	118.80
	TOTAL				4513.08
	Add Water Charges @ 1%				45.13
	TOTAL				4558.21
	Add CPOH @ 15%				683.73
	Cost of 9.7 metre				5241.94
	Cost of 1 metre				540.41
	Say				540.40

12.13.6 Ridge finials.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 pair of ridge finials.				
	MATERIAL:				
	Ridge finials = 1pair				
	Add 5% wastage = 0.05pair.				
	= 1.05 pair				
0233	Fibre (high impact poly propelene reinforced) cement ridge finial	pair	1.05	160.00	168.00
9999	Carriage, sundries, fixing charge including providing and fixing, seam bolts and nuts, with G.I. and bitumen washers.	L.S.	10.79	1.70	18.34
	TOTAL				186.34
	Add Water Charges @ 1%				1.86
	TOTAL				188.20
	Add CPOH @ 15%				28.23
	Cost of 1 pair				216.43
	Say				216.45

12.13.7 Special north light curves.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for special north light ventilator curve 20.2 metres long complete length.				
	MATERIAL:				
	Special north light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.00 No.				
	Total = 21 Nos				
0234	Fibre (high impact poly propelene reinforced) cement special north light curves	each	21.00	550.00	11550.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.00	110.00	440.00
1209	G.I. plain washer thick	100 Nos	40.00	35.00	14.00
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.70	16.80
9999	Sundries	L.S.	6.24	1.70	10.61
	LABOUR:				
0130	Mistry	day	0.10	393.00	39.30
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				12488.01
	Add Water Charges @ 1%				124.88
	TOTAL				12612.89
	Add CPOH @ 15%				1891.93
	Cost of 20 nos				14504.82
	Cost of each				725.24
	Say				725.25

12.13.8 S type louvers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 8.74 metre.				
	MATERIAL:				
	S type louvers = 5 Nos.+				
	Add 5% wastage = 0.25 Nos.				
	Total = 5.25 Nos				
0235	Fibre (high impact poly propelene reinforced) cement S type louvers	each	5.25	250.00	1312.50
9999	Carriage	L.S.	10.79	1.70	18.34
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	6.00	25.00	150.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.00	20.00	120.00
1208	Bitumen washer	100 Nos	18.00	30.00	5.40
1210	G.I. plain washer thin	100 Nos	36.00	32.00	11.52
9999	Carriage of bolts, nuts and washers	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	13.39	1.70	22.76
	LABOUR:				
0111	Carpenter 1st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
0102	Blacksmith 1st class	day	0.12	393.00	47.16
	TOTAL				2382.32
	Add Water Charges @ 1%				23.82
	TOTAL				2406.14
	Add CPOH @ 15%				360.92
	Cost of 8.74 metre				2767.06
	Cost of 1 metre				316.60
	Say				316.60

12.14 Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20 metres.				
	MATERIAL:				
	Flat 5 0x3 mm size				
1008	Flats up to 10 mm in thickness	quintal	0.1163	4200.00	488.46
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	38.00	30.00	114.00
1210	G.I. plain washer thin	100 Nos	19.00	32.00	6.08
9999	Sundries	L.S.	1.04	1.70	1.77
0102	Blacksmith 1st class	day	0.38	393.00	149.34
0114	Beldar	day	0.38	297.00	112.86
	TOTAL				872.51
	Add Water Charges @ 1%				8.73
	TOTAL				881.24
	Add CPOH @ 15%				132.19
	Cost of 20 metre				1013.43
	Cost of 1 metre				50.67
	Say				50.65

12.15 Painting top of roofs with bitumen of approved quality @ 17 kg per 10 sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete.

12.15.1 With residual type petroleum bitumen of grade VG-10.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20 metres.				
	MATERIAL:				
	Bitumen 80/100				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.017	40000.00	680.00
0771	Kerosene oil	litre	1.22	45.00	54.90
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	106.64	1.81
0982	Coarse sand (zone III)	cum	0.06	1120.00	67.20
2203	Carriage of coarse sand	cum	0.06	106.64	6.40
	LABOUR:				
0114	Beldar (for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof)	day	0.38	297.00	112.86
0131	Painter	day	0.15	361.00	54.15
9999	Sundries (Brushes and T and P)	L.S.	13.52	1.70	22.98
	TOTAL				1014.30
	Add Water Charges @ 1%				10.14
	TOTAL				1024.44
	Add CPOH @ 15%				153.67
	Cost of 10 sqm				1178.11
	Cost of 1 sqm				117.81
	Say				117.80

12.16 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.

12.16.1 With common burnt clay F.P.S. (non modular) brick tile of class designation 10.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Mud Phuska = 1.048 cum. + Wastage 20% = 0.209 = 1.257 cum				
0811	Mud (dry)	cum	1.257	60.00	75.42
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars Bhusa 0.263x35 = 9.20 +	cum	0.263	366.20	96.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	5% wastage = 0.46 = 9.66 kg Say 0.1 quintal				
0308	Bhusa	quintal	0.10	400.00	40.00
9999	Cowdung	L.S.	5.33	1.70	9.06
9999	Mud mortar for gobri leaping	L.S.	8.06	1.70	13.70
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.70	4.64
	Tile bricks 22.9x11.4x4.4cm of designation 100				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.00	4800.00	1824.00
2207	Carriage of brick tiles	1000 Nos	380.00	170.63	64.84
	Cement mortar for grouting 1:3 (1 cement 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	3844.80	234.53
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	32.00	0.19
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.30	361.00	469.30
0114	Beldar	day	3.75	297.00	1113.75
0101	Bhisti	day	1.10	328.00	360.80
	TOTAL				4318.03
	Add Water Charges @ 1%				43.18
	TOTAL				4361.21
	Add CPOH @ 15%				654.18
	Cost of 10 sqm				5015.39
	Cost of 1 sqm				501.54
	Say				501.55

12.17 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusha @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.

12.17.1 with machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation - 12.50, conforming to IS - 2690.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: Mud Phuska = 1.048 cum. Wastage 20% = 0.209 Total = 1.257 cum				
0811	Mud (dry)	cum	1.257	60.00	75.42
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars Bhusa 0.263x35 = 9.20 5% wastage = 0.46 = 9.66 kg. Say= 0.10 quintal.	cum	0.263	366.20	96.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0308	Bhusa	quintal	0.10	400.00	40.00
9999	Cowdung	L.S.	5.33	1.70	9.06
9999	Mud mortar for gobri leaping	L.S.	8.06	1.70	13.70
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.70	4.64
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	380.00	5000.00	1900.00
2207	Carriage of brick tiles	1000 Nos	380.00	170.63	64.84
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars Integral water proofing compound 2% by weight of cement	cum	0.061	3844.80	234.53
1213	Water proofing materials	kilogram	0.006	32.00	0.19
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.30	361.00	469.30
0114	Beldar	day	3.75	297.00	1113.75
0101	Bhisti	day	1.10	328.00	360.80
	TOTAL				4394.03
	Add Water Charges @ 1%				43.94
	TOTAL				4437.97
	Add CPOH @ 15%				665.70
	Cost of 10 sqm				5103.67
	Cost of 1 sqm				510.37
	Say				510.35

12.18 Extra for every additional 1 cm thickness of mud phaska.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	for 10 cm thickness.				
	Mud Phuska = 1.048 cum. +				
	Add wastage 20% = 0.209				
	Total = 1.257				
	Quantity for 1cm thickness 1.257/10=0.1257				
	Say 0.13 cum				
0811	Mud (dry)	cum	0.13	60.00	7.80
0114	Beldar	day	0.07	297.00	20.79
0101	Bhisti	day	0.04	328.00	13.12
9999	Labour for leaping and carriage to roof	L.S.	26.91	1.70	45.75
	TOTAL				87.46
	Add Water Charges @ 1%				0.87
	TOTAL				88.33
	Add CPOH @ 15%				13.25
	Cost of 10 sqm				101.58
	Cost of 1 sqm				10.16
	Say				10.15

12.19 Providing and laying brick tiles over mumty roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat.

12.19.1 With common burnt clay F.P.S. (non modular) brick tiles class designation 10.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.00	4800.00	1824.00
2207	Carriage of brick tiles	1000 Nos	380.00	170.63	64.84
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.179	3844.80	688.22
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.005	32.00	0.16
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.81	361.00	292.41
0115	Coolie	day	1.08	297.00	320.76
0101	Bhisti	day	0.27	328.00	88.56
9999	Sundries	L.S.	1.82	1.70	3.09
	TOTAL				3282.04
	Add Water Charges @ 1%				32.82
	TOTAL				3314.86
	Add CPOH @ 15%				497.23
	Cost of 10 sqm				3812.09
	Cost of 1 sqm				381.21
	Say				381.20

12.20 Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	160.00	12150.00	1944.00
2207	Carriage of brick tiles	1000 Nos	160.00	170.63	27.30
	Cement mortar 1:4 (l cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.037	3654.15	135.20
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.01	32.00	0.32
	Cement mortar 1:4 (l cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.60	393.00	235.80
0114	Beldar	day	2.60	297.00	772.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				3955.45
	Add Water Charges @ 1%				39.55
	TOTAL				3995.00
	Add CPOH @ 15%				599.25
	Cost of 10 sqm				4594.25
	Cost of 1 sqm				459.43
	Say				459.40

12.21 Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design.

12.21.1 In 75x75 mm deep chase.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre.				
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0836	1050.00	87.78
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0836	106.64	8.92
0982	Coarse sand (zone III)	cum	0.0418	1120.00	46.82
2203	Carriage of coarse sand	cum	0.0418	106.64	4.46
0367	Portland Cement	tonne	0.03	5240.00	157.20
2209	Carriage of cement	tonne	0.03	94.80	2.84
0114	Beldar	day	0.085	297.00	25.24
0115	Coolie	day	0.056	297.00	16.63
0101	Bhisti	day	0.025	328.00	8.20
0123	Mason (brick layer) 1st class	day	0.005	393.00	1.96
0124	Mason (brick layer) 2nd class	day	0.005	361.00	1.80
0128	Mate	day	0.0037	328.00	1.21
9999	Hire and running charge of mechanical mixer	L.S.	2.47	1.70	4.20
9999	Sundries	L.S.	1.30	1.70	2.21
0123	Mason (brick layer) 1st class	day	0.15	393.00	58.95
0124	Mason (brick layer) 2nd class	day	0.15	361.00	54.15
9999	Sundries	L.S.	5.07	1.70	8.62
0123	Mason (brick layer) 1st class	day	0.25	393.00	98.25
0124	Mason (brick layer) 2nd class	day	0.25	361.00	90.25
0114	Beldar	day	1.00	297.00	297.00
9999	Carriage	L.S.	8.06	1.70	13.70
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.009	3844.80	34.60
0155	Mason (average)	day	0.081	377.00	30.54
0115	Coolie	day	0.101	297.00	30.00
0101	Bhisti	day	0.033	328.00	10.82
9999	Hire and running charge of mechanical mixer	L.S.	1.69	1.70	2.87
9999	Sundries	L.S.	1.43	1.70	2.43
	TOTAL				1101.65
	Add Water Charges @ 1%				11.02
	TOTAL				1112.67
	Add CPOH @ 15%				166.90
	Cost of 10 metre				1279.57
	Cost of 1 metre				127.96
	Say				127.95

12.22 Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges, making and finishing the outlet complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0067	1200.00	8.04
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0022	1050.00	2.31
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0089	106.64	0.95
0982	Coarse sand (zone III)	cum	0.0044	1120.00	4.93
2203	Carriage of coarse sand	cum	0.0044	106.64	0.47
0367	Portland Cement	tonne	0.0032	5240.00	16.77
2209	Carriage of cement	tonne	0.0032	94.80	0.30
0114	Beldar	day	0.009	297.00	2.67
0115	Coolie	day	0.006	297.00	1.78
0101	Bhisti	day	0.0027	328.00	0.89
0123	Mason (brick layer) 1st class	day	0.0005	393.00	0.20
0124	Mason (brick layer) 2nd class	day	0.0005	361.00	0.18
0128	Mate	day	0.0004	328.00	0.13
9999	Hire and running charge of mechanical mixer	L.S.	0.26	1.70	0.44
9999	Sundries	L.S.	0.13	1.70	0.22
3002	Polyvinyle chloride sheet 400 micron thick	sqm	1.00	35.00	35.00
	Cement mortar 1:3 (1 cement :3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0041	4347.70	17.83
0155	Mason (average)	day	0.0235	377.00	8.86
0115	Coolie	day	0.0235	297.00	6.98
0101	Bhisti	day	0.0078	328.00	2.56
9999	Sundries	L.S.	0.39	1.70	0.66
0367	Portland Cement	tonne	0.0006	5240.00	3.14
2209	Carriage of cement	tonne	0.0006	94.80	0.06
0155	Mason (average)	day	0.008	377.00	3.02
0115	Coolie	day	0.008	297.00	2.38
9999	Rounding of edges and making outlet	L.S.	0.26	1.70	0.44
9999	Sundries	L.S.	13.52	1.70	22.98
	TOTAL				144.19
	Add Water Charges @ 1%				1.44
	TOTAL				145.63
	Add CPOH @ 15%				21.84
	Cost of each				167.47
	Say				167.45

12.23 Providing sand stone slab for roofing and laying them in cement mortar 1:4 (1 cement : 4 coarse sand) over wooden karries or RCC battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), inc!uding pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete.

12.23.1 Red sand stone slab.

12.23.1.1 40 to 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1174	Red sand stone slab 45 mm to 50 mm thick (un- dressed) including wastage @ 10% = 11 sqm	sqm	11.00	172.00	1892.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.27	94.80	120.40
	Cement mortar l:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	3654.15	34.71
	Cement mortar for grouting 1:3(1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3844.80	28.84
	LABOUR:				
0155	Mason (average)	day	1.52	377.00	573.04
0100	Bandhani	day	1.82	328.00	596.96
0115	Coolie	day	1.52	297.00	451.44
0101	Bhisti	day	0.30	328.00	98.40
9999	Sundries	L.S.	16.12	1.70	27.40
	TOTAL				3823.19
	Add Water Charges @ 1%				38.23
	TOTAL				3861.42
	Add CPOH @ 15%				579.21
	Cost of 10 sqm				4440.63
	Cost of 1 sqm				444.06
	Say				444.05

12.23.2 White sand stone slab.

12.23.2.1 40 to 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
1175	White sand stone slab 45 mm to 50 mm thick (un- dressed) including wastage @ 10% = 11sqm	sqm	11.00	225.00	2475.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.27	94.80	120.40
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	3654.15	34.71
0155	Mason (average)	day	1.52	377.00	573.04
0100	Bandhani	day	1.82	328.00	596.96
0115	Coolie	day	1.52	297.00	451.44
0101	Bhisti	day	0.30	328.00	98.40
9999	Sundries	L.S.	16.12	1.70	27.40
	Cement mortar for grouting 1:3(1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3844.80	28.84
	TOTAL				4406.19
	Add Water Charges @ 1%				44.06
	TOTAL				4450.25
	Add CPOH @ 15%				667.54
	Cost of 10 sqm				5117.79
	Cost of 1 sqm				511.78
	Say				511.80

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately).

12.24.1 Natural colour insulating board.

12.24.1.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0332	Natural colour insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	270.00	2970.00
9999	Carriage of material	L.S.	17.55	1.70	29.84
9999	Nails	L.S.	26.91	1.70	45.75
	LABOUR				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				4727.73
	Add Water Charges @ 1%				47.28
	TOTAL				4775.01
	Add CPOH @ 15%				716.25
	Cost of 10 sqm				5491.26
	Cost of 1 sqm				549.13
	Say				549.15

12.24.2 White face insulating board.

12.24.2.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0328	White face insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	360.00	3960.00
9999	Carriage of material	L.S.	17.55	1.70	29.84
9999	Nails	L.S.	26.91	1.70	45.75
	LABOUR:				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				5717.73
	Add Water Charges @ 1%				57.18
	TOTAL				5774.91
	Add CPOH @ 15%				866.24
	Cost of 10 sqm				6641.15
	Cost of 1 sqm				664.12
	Say				664.10

12.24.3 Flame retardant face insulating board.

12.24.3.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0336	Flame retardant face insulating board: 12 mm thick	sqm	11.00	315.00	3465.00
	including 10% wastage = 11.00 sqm				
9999	Carriage of material	L.S.	17.55	1.70	29.84
9999	Nails	L.S.	26.91	1.70	45.75
	LABOUR:				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				5222.73
	Add Water Charges @ 1%				52.23
	TOTAL				5274.96
	Add CPOH @ 15%				791.24
	Cost of 10 sqm				6066.20
	Cost of 1 sqm				606.62
	Say				606.60

12.25 Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS : 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately).

12.25.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	11.00	325.00	3575.00
	including 10% wastage = 11.00 sqm				
9999	Carriage	L.S.	14.95	1.70	25.42
9999	Nails	L.S.	26.91	1.70	45.75
	LABOUR:				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				5328.31
	Add Water Charges @ 1%				53.28
	TOTAL				5381.59
	Add CPOH @ 15%				807.24
	Cost of 10 sqm				6188.83
	Cost of 1 sqm				618.88
	Say				618.90

12.26 Providing and fixing plain Multipurpose Cement board (High Pressure steam cured) as per IS : 14862, with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately).

12.26.1 6 mm thick cement board.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
0236	Multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	200.00	2200.00
9999	Carriage	L.S.	14.95	1.70	25.42
9999	Nails	L.S.	26.91	1.70	45.75
	LABOUR:				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				3953.31
	Add Water Charges @ 1%				39.53
	TOTAL				3992.84
	Add CPOH @ 15%				598.93
	Cost of 10 sqm				4591.77
	Cost of 1 sqm				459.18
	Say				459.20

12.27 Extra for Circular cutting including wastages in ceiling with.

12.27.1 2nd class teak wood planks 20 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 holes of 0.5m dia each (15.71m).				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm x 20 mm				
	= 0.043 cum = 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	725.00	3117.50
2204	Carriage of timber	cum	0.043	121.88	5.24
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	31.00	50.00	15.50
	LABOUR:				
0111	Carpenter 1st class	day	2.65	393.00	1041.45
0112	Carpenter 2nd class	day	0.145	361.00	52.34
0114	Beldar	day	2.79	297.00	828.63
9999	Scaffolding	L.S.	7.80	1.70	13.26
9999	Sundries	L.S.	14.69	1.70	24.97
	TOTAL				5098.89
	Add Water Charges @ 1%				50.99
	TOTAL				5149.88
	Add CPOH @ 15%				772.48
	Cost of 15.71 metre				5922.36
	Cost of 1 metre				376.98
	Say				377.00

12.27.2 Natural colour insulating board.

12.27.2.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15.71 metre.				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0332	Natural colour insulating board:12 mm thick	sqm	2.15	270.00	580.50
9999	Carriage	L.S.	3.38	1.70	5.75
9999	Nails	L.S.	5.33	1.70	9.06
	LABOUR:				
0111	Carpenter 1st class	day	0.49	393.00	192.57
0114	Beldar	day	0.39	297.00	115.83
9999	Scaffolding	L.S.	6.11	1.70	10.39
9999	Sundries	L.S.	6.11	1.70	10.39
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.50	297.00	742.50
9999	Scaffolding	L.S.	10.79	1.70	18.34
	TOTAL				2667.83
	Add Water Charges @ 1%				26.68
	TOTAL				2694.51
	Add CPOH @ 15%				404.18
	Cost of 15.71 metre				3098.69
	Cost of 1 metre				197.24
	Say				197.25

12.27.3 White face insulating board.

12.27.3.1 12 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15.71 metre.				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0328	White face insulating board:12 mm thick	sqm	2.15	360.00	774.00
9999	Carriage	L.S.	3.38	1.70	5.75
9999	Nails	L.S.	5.33	1.70	9.06
	LABOUR:				
0111	Carpenter 1st class	day	0.49	393.00	192.57
0114	Beldar	day	0.39	297.00	115.83
9999	Scaffolding	L.S.	6.11	1.70	10.39
9999	Sundries	L.S.	6.11	1.70	10.39
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.50	297.00	742.50
9999	Scaffolding	L.S.	10.79	1.70	18.34
	TOTAL				2861.33
	Add Water Charges @ 1%				28.61
	TOTAL				2889.94
	Add CPOH @ 15%				433.49
	Cost of 15.71 metre				3323.43
	Cost of 1 metre				211.55
	Say				211.55

12.27.4 Flame retardant face insulating board.

12.27.4.1 12mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15.71 metre. MATERIAL: 0.5 metre dia. each = 10x22/7x0.5=15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm				
0336	Flame retardant face insulating board: 12 mm thick	sqm	2.15	315.00	677.25
9999	Carriage	L.S.	3.38	1.70	5.75
9999	Nails	L.S.	5.33	1.70	9.06
	LABOUR:				
0111	Carpenter 1st class	day	0.49	393.00	192.57
0114	Beldar	day	0.39	297.00	115.83
9999	Scaffolding	L.S.	6.11	1.70	10.39
9999	Sundries	L.S.	6.11	1.70	10.39
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.50	297.00	742.50
9999	Scaffolding	L.S.	10.79	1.70	18.34
	TOTAL				2764.58
	Add Water Charges @ 1%				27.65
	TOTAL				2792.23
	Add CPOH @ 15%				418.83
	Cost of 15.71 metre				3211.06
	Cost of 1 metre				204.40
	Say				204.40

12.27.5 Standard quality hard board sheet.

12.27.5.1 3 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15.71 metre. MATERIAL: 0.5 metre dia. each = 10x22/7x0.5=15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm				
0994	Standard quality hard board sheet 3 mm thick	sqm	2.15	125.00	268.75
9999	Carriage	L.S.	2.73	1.70	4.64
9999	Nails	L.S.	5.33	1.70	9.06
	LABOUR:				
0111	Carpenter 1st class	day	0.49	393.00	192.57
0114	Beldar	day	0.39	297.00	115.83
9999	Scaffolding	L.S.	6.11	1.70	10.39
9999	Sundries	L.S.	6.11	1.70	10.39
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.50	297.00	742.50
9999	Scaffolding	L.S.	10.79	1.70	18.34
	TOTAL				2354.97
	Add Water Charges @ 1%				23.55
	TOTAL				2378.52
	Add CPOH @ 15%				356.78
	Cost of 15.71 metre				2735.30
	Cost of 1 metre				174.11
	Say				174.10

12.27.5.2 4.5 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15.71 metre.				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0996	Standard quality hard board sheet 4.5 mm thick	sqm	2.15	150.00	322.50
9999	Carriage	L.S.	2.86	1.70	4.86
9999	Nails	L.S.	5.33	1.70	9.06
	LABOUR:				
0111	Carpenter 1st class	day	0.49	393.00	192.57
0114	Beldar	day	0.39	297.00	115.83
9999	Scaffolding	L.S.	6.11	1.70	10.39
9999	Sundries	L.S.	6.11	1.70	10.39
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.50	297.00	742.50
9999	Scaffolding	L.S.	10.79	1.70	18.34
	TOTAL				2408.94
	Add Water Charges @ 1%				24.09
	TOTAL				2433.03
	Add CPOH @ 15%				364.95
	Cost of 15.71 metre				2797.98
	Cost of 1 metre				178.10
	Say				178.10

12.28 Extra for providing and fixing ceiling to curved surfaces in narrow widths.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR:				
0111	Carpenter 1st class	day	1.00	393.00	393.00
0112	Carpenter 2nd class	day	1.00	361.00	361.00
0114	Beldar	day	2.00	297.00	594.00
	TOTAL				1348.00
	Add Water Charges @ 1%				13.48
	TOTAL				1361.48
	Add CPOH @ 15%				204.22
	Cost of 10 sqm				1565.70
	Cost of 1 sqm				156.57
	Say				156.55

12.29 Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners, cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm

centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm) Qty. including 10% wastage = 11.00 sqm. i.e. (11/0.36).= 30.56 Nos	each	30.56	120.00	3667.20
9999	Carriage of tiles	L.S.	14.82	1.70	25.19
9999	C.P.Brass screws	L.S.	26.91	1.70	45.75
	LABOUR:				
0111	Carpenter 1st class	day	2.50	393.00	982.50
0114	Beldar	day	2.00	297.00	594.00
9999	Scaffolding	L.S.	31.07	1.70	52.82
9999	Sundries	L.S.	31.07	1.70	52.82
	TOTAL				5420.28
	Add Water Charges @ 1%				54.20
	TOTAL				5474.48
	Add CPOH @ 15%				821.17
	Cost of 10 sqm				6295.65
	Cost of 1 sqm				629.57
	Say				629.55

12.30 Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain or design particle board ceiling tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Difference in cost of				
7385	3 mm thick translucent white acrylic plastic sheet	sqm	10.00	570.00	5700.00
7386	12 mm thick particle board ceiling tile	sqm	-10.00	260.00	-2600.00
	TOTAL				3100.00
	Add Water Charges @ 1%				31.00
	TOTAL				3131.00
	Add CPOH @ 15%				469.65
	Cost of 10 sqm				3600.65
	Cost of 1 sqm				360.07
	Say				360.05

12.31 Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately).

12.31.1 Flat surfaces.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4.00x2.5=10sqm.				
	Wooden strips of 1 st class kail wood				
	72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				
1196	First class kail wood in planks	10 cudm	47.52	310.00	1473.12
2204	Carriage of timber	cum	0.0475	121.88	5.79
1219	Wire nails	kilogram	0.75	60.00	45.00
	required for fixing the laths to frame work including breakage and wastage of nails				
	Rabbit wire mesh required for reinforcement				
	=2.5x4 = 10.00sqm.+				
	Add 2%wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.20	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side of the				
	laths-				
	2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+				
	Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.76	4.00	.04
2308	Carriage of plaster of paris	tonne	0.22	94.80	20.86
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1st class	day	1.60	393.00	628.80
0114	Beldar	day	1.60	297.00	475.20
	For doing plaster of paris over wooden strips.				
0122	Mason (for plaster of paris work) 1 st class	day	3.23	393.00	1269.39
0114	Beldar	day	3.23	297.00	959.31
0101	Bhisti	day	0.54	328.00	177.12
9999	Scaffolding	L.S.	83.98	1.70	142.77
9999	Sundries	L.S.	53.82	1.70	91.49
	TOTAL				6631.53
	Add Water Charges @ 1%				66.32
	TOTAL				6697.85
	Add CPOH @ 15%				1004.68
	Cost of 10 sqm				7702.53
	Cost of 1 sqm				770.25
	Say				770.25

12.31.2 Curved surfaces.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4.00x2.5=10sqm.				
	MATERIAL:				
	Wooden strips of 1 st class kail wood 72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				
1196	First class kail wood in planks	10 cudm	47.52	310.00	1473.12
2204	Carriage of timber	cum	0.0475	121.88	5.79
1219	Wire nails	kilogram	0.75	60.00	45.00
	required for fixing the laths to frame work including breakage and wastage of nails				
	Rabbit wire mesh required for reinforcement =2.5x4 = 10.00sqm.+				
	Add 2%wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.20	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side of the				
	laths-				
	2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+				
	Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.76	4.00	879.04
2308	Carriage of plaster of paris	tonne	0.22	94.80	20.86
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.70	4.64
	LABOUR:				
0111	Carpenter 1st class	day	1.60	393.00	628.80
0114	Beldar	day	1.60	297.00	475.20
0122	Mason (for plaster of paris work) 1 st class	day	3.23	393.00	1269.39
0114	Beldar	day	3.23	297.00	959.31
0101	Bhisti	day	0.54	328.00	177.12
9999	Scaffolding	L.S.	83.98	1.70	142.77
9999	Sundries	L.S.	53.82	1.70	91.49
0111	Carpenter 1st class	day	0.50	393.00	196.50
0122	Mason (for plaster of paris work) 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	1.50	297.00	445.50
	TOTAL				7666.53
	Add Water Charges @ 1%				76.67
	TOTAL				7743.20
	Add CPOH @ 15%				1161.48
	Cost of 10 sqm				8904.68
	Cost of 1 sqm				890.47
	Say				890.45

12.32 Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
0869	Plaster of Paris	kilogram	109.88	4.00	439.52
2308	Carriage of plaster of paris	tonne	0.11	94.80	10.43
	LABOUR:				
0122	Mason (for plaster of paris work) 1st class	day	2.00	393.00	786.00
0114	Beldar	day	2.00	297.00	594.00
0101	Bhisti	day	0.25	328.00	82.00
9999	Scaffolding and sundries	L.S.	13.52	1.70	22.98
	TOTAL				1934.93
	Add Water Charges @ 1%				19.35
	TOTAL				1954.28
	Add CPOH @ 15%				293.14
	Cost of 10 sqm				2247.42
	Cost of 1 sqm				224.74
	Say				224.75

12.33 Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm/metre height.				
9999	Scaffolding	L.S.	13.52	1.70	22.98
	LABOUR:				
0122	Mason (for plaster of paris work) 1st class	day	1.00	393.00	393.00
0114	Beldar	day	1.00	297.00	297.00
0101	Bhisti	day	0.25	328.00	82.00
	TOTAL				794.98
	Add Water Charges @ 1%				7.95
	TOTAL				802.93
	Add CPOH @ 15%				120.44
	Cost of 10 sqm per metre height				923.37
	Cost of 1 sqm per metre height				92.34
	Say				92.35

12.34 Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire and mesh, for top most ceiling of building.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	11.00	204.00	2244.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.00	1.70	176.80
9999	GI chiken mesh 12.5mm x 24 SWG	L.S.	351.00	1.70	596.70
	LABOUR:				
0111	Carpenter 1st class	day	1.00	393.00	393.00
0114	Beldar	day	2.00	297.00	594.00
	TOTAL				4004.50
	Add Water Charges @ 1%				40.04
	TOTAL				4044.54
	Add CPOH @ 15%				606.68
	Cost of 10 sqm				4651.22
	Cost of 1 sqm				465.12
	Say				465.10

12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183, density 16 kg/m3 , 50 mm thick, wrapped in 200 G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Area for 10.00sqm. (Finished surface) = 10.00sqm.+				
	Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm				
7231	Resin Bonded Glass wool 16 kg/ m3: 50 mm thick	sqm	11.00	145.00	1595.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.00	1.70	88.40
	LABOUR:				
0111	Carpenter 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				2028.40
	Add Water Charges @ 1%				20.28
	TOTAL				2048.68
	Add CPOH @ 15%				307.30
	Cost of 10 sqm				2355.98
	Cost of 1 sqm				235.60
	Say				235.60

12.36 Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-Charge.

12.36.1 With Type N - Normal 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Cost of materials:				
	Expanded Polystyrene 1x10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 11.00sqm				
7090	Expanded polystyrene type N- Normal	sqm	11.00	130.00	1430.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.25	26.00	6.50
9999	Sundries	L.S.	13.00	1.70	22.10
	LABOUR:				
0111	Carpenter 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				1803.60
	Add Water Charges @ 1%				18.04
	TOTAL				1821.64
	Add CPOH @ 15%				273.25
	Cost of 10 sqm				2094.89
	Cost of 1 sqm				209.49
	Say				209.50

12.36.2 With Type SE - Self Extinguishing type 50 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Expanded Polystyrene 1x10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				
	Total = 11.00sqm				
7091	Expanded polystyrene type - SE	sqm	11.00	155.00	1705.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.25	26.00	6.50
9999	Sundries	L.S.	13.00	1.70	22.10
	LABOUR:				
0111	Carpenter 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				2078.60
	Add Water Charges @ 1%				20.79
	TOTAL				2099.39
	Add CPOH @ 15%				314.91
	Cost of 10 sqm				2414.30
	Cost of 1 sqm				241.43
	Say				241.45

12.37 Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).

12.37.1 Stone ware spout.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 stone ware spout of 60cm long.				
	MATERIAL:				
3004	Stone ware spouts 100 mm dia 60 cm long	each	10.00	35.00	350.00
9999	Carriage	L.S.	13.52	1.70	22.98
9999	Mortar	L.S.	13.52	1.70	22.98
	Labour for fixing and placing in position				
0124	Mason (brick layer) 2nd class	day	0.40	361.00	144.40
0114	Beldar	day	0.40	297.00	118.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	5.33	1.70	9.06
	TOTAL				668.22
	Add Water Charges @ 1%				6.68
	TOTAL				674.90
	Add CPOH @ 15%				101.24
	Cost of 10 nos				776.14
	Cost of each				77.61
	Say				77.60

12.38 Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc.

12.38.1 100 mm diameter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 nos.				
	MATERIAL:				
1331	M.S.Holder bat clamp of approved design for mm S.C.I. pipe	100 each	5.00	20.00	100.00
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Sundries	L.S.	7.15	1.70	12.16
9999	Carriage of bat clamps	L.S.	2.47	1.70	4.20
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	393.00	49.12
0124	Mason (brick layer) 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	0.5 20	97.00	148.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1200.00	3.96
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1050.00	1.16
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	106.64	0.47
0982	Coarse sand (zone III)	cum	0.0022	1120.00	2.46
2203	Carriage of coarse sand	cum	0.0022	106.64	0.23
0367	Portland Cement	tonne	0.0016	5240.00	8.38
2209	Carriage of cement	tonne	0.0016	94.80	0.15
0114	Beldar	day	0.0045	297.00	1.34
0115	Coolie	day	0.0032	297.00	0.95
0101	Bhisti	day	0.0014	328.00	0.46
0123	Mason (brick layer) 1st class	day	0.0003	393.00	0.12
0124	Mason (brick layer) 2nd class	day	0.0003	361.00	0.11
0128	Mate	day	0.0002	328.00	0.07
9999	Hire charges of machine etc.	L.S.	0.26	1.70	0.44
9999	Sundries	L.S.	0.13	1.70	0.22
9999	Sundries	L.S.	0.13	1.70	0.22
	TOTAL				605.47
	Add Water Charges @ 1%				6.05
	TOTAL				611.52
	Add CPOH @ 15%				91.73
	Cost of 5 nos				703.25
	Cost of each				140.65
	Say				140.65

12.38.2 150 mm diameter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 nos.				
	MATERIAL:				
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	5.00	25.00	125.00
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Carriage of bat clamps	L.S.	2.47	1.70	4.20
9999	Sundries	L.S.	7.15	1.70	12.16
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	393.00	49.12
0124	Mason (brick layer) 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	0.50	297.00	148.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1200.00	3.96
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1050.00	1.16
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	106.64	0.47
0982	Coarse sand (zone III)	cum	0.0022	1120.00	2.46
2203	Carriage of coarse sand	cum	0.0022	106.64	0.23
0367	Portland Cement	tonne	0.0016	5240.00	8.38
2209	Carriage of cement	tonne	0.0016	94.80	0.15
0114	Beldar	day	0.0045	297.00	1.34
0115	Coolie	day	0.0032	297.00	0.95
0101	Bhisti	day	0.0014	328.00	0.46
0123	Mason (brick layer) 1st class	day	0.0003	393.00	0.12
0124	Mason (brick layer) 2nd class	day	0.0003	361.00	0.11
0128	Mate	day	0.0002	328.00	0.07
9999	Hire charges of machine etc.	L.S.	0.26	1.70	0.44
9999	Sundries	L.S.	0.13	1.70	0.22
9999	Sundries	L.S.	0.13	1.70	0.22
	TOTAL				630.47
	Add Water Charges @ 1%				6.30
	TOTAL				636.77
	Add CPOH @ 15%				95.52
	Cost of 5 nos				732.29
	Cost of each				146.46
	Say				146.45

12.39 Providing lead caulked joints to sand cast iron rain water pipes and fittings.

12.39.1 100 mm dia pipe.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 joint.				
	MATERIAL:				
0865	Pig lead	kilogram	0.98	125.00	122.50
1001	Spun yarn	kilogram	0.11	40.00	4.40
9999	Kerosene oil fuel and sundries	L.S.	13.52	1.70	22.98
9999	Carriage of material	L.S.	1.43	1.70	2.43
	LABOUR:				
0116	Fitter (grade 1)	day	0.06	393.00	23.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0117	Assistant Fitter or 2nd class Fitter	day	0.06	361.00	21.66
0114	Beldar	day	0.12	297.00	35.64
	TOTAL				233.19
	Add Water Charges @ 1%				2.33
	TOTAL				235.52
	Add CPOH @ 15%				35.33
	Cost of each				270.85
	Say				270.85

12.39.2 150 mm dia pipe.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 joint.				
	MATERIAL:				
0865	Pig lead	kilogram	1.48	125.00	185.00
1001	Spun yarn	kilogram	0.17	40.00	6.80
9999	Kerosene oil fuel and sundries	L.S.	13.52	1.70	22.98
9999	Carriage of material	L.S.	2.73	1.70	4.64
	LABOUR:				
0116	Fitter (grade 1)	day	0.08	393.00	31.44
0117	Assistant Fitter or 2nd class Fitter	day	0.08	361.00	28.88
0114	Beldar	day	0.15	297.00	44.55
	TOTAL				324.29
	Add Water Charges @ 1%				3.24
	TOTAL				327.53
	Add CPOH @ 15%				49.13
	Cost of each				376.66
	Say				376.65

12.40 Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately).

12.40.1 Sand cast iron plain shoes.

12.40.1.1 150 mm diameter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 shoe.				
0966	Sand Cast iron plain shoe 150 mm dia	each	1.00	325.00	325.00
9999	Carriage, fixing and mortar	L.S.	17.55	1.70	29.84
	TOTAL				354.84
	Add Water Charges @ 1%				3.55
	TOTAL				358.39
	Add CPOH @ 15%				53.76
	Cost of each				412.15
	Say				412.15

12.41 Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.

12.41.1 75 mm diameter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6 metre.				
7188	uPVC pipes (working pressure 4 kg / cm 2) Single socketed pipe 75 mm dia	metre	6.00	67.00	402.00
7190	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	1.00	16.00	16.00
9999	Carriage of material	L.S.	13.52	1.70	22.98
9999	Adhesive, and sundries etc.	L.S.	6.76	1.70	11.49
	LABOUR:				
0116	Fitter (grade 1)	day	0.19	393.00	74.67
0114	Beldar	day	0.37	297.00	109.89
0100	Bandhani	day	0.08	328.00	26.24
9999	Scaffolding	L.S.	18.59	1.70	31.60
	TOTAL				694.87
	Add Water Charges @ 1%				6.95
	TOTAL				701.82
	Add CPOH @ 15%				105.27
	Cost of 6 metre				807.09
	Cost of 1 metre				134.52
	Say				134.50

12.41.2 110 mm diameter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6 metre.				
7189	uPVC pipes (working pressure 4 kg / cm 2) Single socketed pipe 110 mm dia	metre	6.00	129.00	774.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	1.00	20.00	20.00
9999	Carriage of material	L.S.	17.55	1.70	29.84
9999	Adhesive, and sundries etc.	L.S.	8.06	1.70	13.70
	LABOUR:				
0116	Fitter (grade 1)	day	0.23	393.00	90.39
0114	Beldar	day	0.45	297.00	133.65
0100	Bandhani	day	0.11	328.00	36.08
9999	Scaffolding	L.S.	18.59	1.70	31.60
	TOTAL				1129.26
	Add Water Charges @ 1%				11.29
	TOTAL				1140.55
	Add CPOH @ 15%				171.08
	Cost of 6 metre				1311.63
	Cost of 1 metre				218.61
	Say				218.60

12.42 Providing and fixing on wall face unplasticised-PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.

12.42.1 Coupler.

12.42.1.1 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 coupler.				
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	1.00	34.00	34.00
7190	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	2.00	16.00	32.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
	LABOUR:				
9999	Carriage and fixing charges.	L.S.	9.36	1.70	15.91
	TOTAL				86.55
	Add Water Charges @ 1%				0.87
	TOTAL				87.42
	Add CPOH @ 15%				13.11
	Cost of each				100.53
	Say				100.55

12.42.1.2 110 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 coupler.				
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	1.00	52.00	52.00
7191	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	2.00	20.00	40.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	10.79	1.70	18.34
	TOTAL				114.98
	Add Water Charges @ 1%				1.15
	TOTAL				116.13
	Add CPOH @ 15%				17.42
	Cost of each				133.55
	Say				133.55

12.42.2 Single pushfit Coupler.

12.42.2.1 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 coupler.				
7194	UPVC pushfit coupler (single) 75 mm thick	each	1.00	50.00	50.00
7190	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	2.00	16.00	32.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	9.36	1.70	15.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				102.55
	Add Water Charges @ 1%				1.03
	TOTAL				103.58
	Add CPOH @ 15%				15.54
	Cost of each				119.12
	Say				119.10

12.42.2.2 110 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 coupler.				
7195	UPVC pushfit coupler (single) 110 mm thick	each	1.00	81.00	81.00
7191	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	2.00	20.00	40.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	10.79	1.70	18.34
	TOTAL				143.98
	Add Water Charges @ 1%				1.44
	TOTAL				145.42
	Add CPOH @ 15%				21.81
	Cost of each				167.23
	Say				167.25

12.42.3 Single tee with door.

12.42.3.1 75x75x75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 tee.				
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	1.00	115.00	115.00
7190	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	3.00	16.00	48.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	1.70	18.29
	TOTAL				181.29
	Add Water Charges @ 1%				1.81
	TOTAL				183.10
	Add CPOH @ 15%				27.46
	Cost of each				210.56
	Say				210.55

12.42.3.2 110x110x110 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 tee. MATERIAL:				
7199	UPVC single equal Tee (with door) 110x110 x110 mm	each	1.00	180.00	180.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	3.00	20.00	60.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	1.70	22.90
	TOTAL				262.90
	Add Water Charges @ 1%				2.63
	TOTAL				265.53
	Add CPOH @ 15%				39.83
	Cost of each				305.36
	Say				305.35

12.42.4 Single tee without door.

12.42.4.1 75x75x75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 tee.				
	MATERIAL:				
7196	UPVC single equal Tee (without door) 75x 75x75 mm	each	1.00	95.00	95.00
7190	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	3.00	16.00	48.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	1.70	18.29
	TOTAL				161.29
	Add Water Charges @ 1%				1.61
	TOTAL				162.90
	Add CPOH @ 15%				24.44
	Cost of each				187.34
	Say				187.35

12.42.4.2 110x110x110 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 tee.				
	MATERIAL:				
7197	UPVC single equal Tee (without door) 110x110x110 mm	each	1.00	128.00	128.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	3.00	20.00	60.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	1.70	22.90
	TOTAL				210.90
	Add Water Charges @ 1%				2.11
	TOTAL				213.01
	Add CPOH @ 15%				31.95
	Cost of each				244.96
	Say				244.95

12.42.5 Bend 87.5°.

12.42.5.1 75 mm bend.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 coupler.				
7208	UPVC bend 87.5° 75 mm bend	each	1.00	56.00	56.00
7190	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	1.00	16.00	16.00
9999	Adesive and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	9.36	1.70	15.91
	TOTAL				92.55
	Add Water Charges @ 1%				0.93
	TOTAL				93.48
	Add CPOH @ 15%				14.02
	Cost of each				107.50
	Say				107.50

12.42.5.2 110 mm bend.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 bend.				
7209	UPVC bend 87.5° 110 mm bend	each	1.00	95.00	95.00
7191	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	1.00	20.00	20.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	10.79	1.70	18.34
	TOTAL				137.98
	Add Water Charges @ 1%				1.38
	TOTAL				139.36
	Add CPOH @ 15%				20.90
	Cost of each				160.26
	Say				160.25

12.42.6 Shoe (Plain).

12.42.6.1 75 mm Shoe.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 shoe.				
7212	UPVC plain shoe 75 mm bend	each	1.00	107.00	107.00
7190	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	1.00	16.00	16.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	9.36	1.70	15.91
	TOTAL				143.55
	Add Water Charges @ 1%				1.44
	TOTAL				144.99
	Add CPOH @ 15%				21.75
	Cost of each				166.74
	Say				166.75

12.42.6.2 110 mm Shoe.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 shoe.				
7213	UPVC plain shoe 110 mm bend	each	1.00	207.00	207.00
7191	UPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	1.00	20.00	20.00
9999	Adhesive and sundries etc.	L.S.	2.73	1.70	4.64
9999	Carriage and fixing charges.	L.S.	10.79	1.70	18.34
	TOTAL				249.98
	Add Water Charges @ 1%				2.50
	TOTAL				252.48
	Add CPOH @ 15%				37.87
	Cost of each				290.35
	Say				290.35

12.43 Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.

12.43.1 75 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 nos.				
	MATERIAL:				
7214	UPVC pipe clip 75 mm bend	each	5.00	16.00	80.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.70	4.20
0870	Plug	each	10.00	10.00	100.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	393.00	49.12
0124	Mason (brick layer) 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	7.15	1.70	12.16
9999	Sundries	L.S.	0.91	1.70	1.55
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.90	1.70	6.63
	TOTAL				672.91
	Add Water Charges @ 1%				6.73
	TOTAL				679.64
	Add CPOH @ 15%				101.95
	Cost of 5 nos				781.59
	Cost of each				156.32
	Say				156.30

12.43.2 110 mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5 nos.				
	MATERIAL:				
7215	UPVC pipe clip 110 mm bend	each	5.00	31.00	155.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.70	4.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0870	Plug	each	10.00	10.00	100.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	393.00	49.12
0124	Mason (brick layer) 2nd class	day	0.75	361.00	270.75
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	7.15	1.70	12.16
9999	Sundries	L.S.	0.91	1.70	1.55
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.90	1.70	6.63
	TOTAL				747.91
	Add Water Charges @ 1%				7.48
	TOTAL				755.39
	Add CPOH @ 15%				113.31
	Cost of 5 nos				868.70
	Cost of each				173.74
	Say				173.75

12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 grating.				
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	1.00	25.00	25.00
9999	Carriage of material and fixing charges.	L.S.	4.16	1.70	7.07
	TOTAL				32.07
	Add Water Charges @ 1%				0.32
	TOTAL				32.39
	Add CPOH @ 15%				4.86
	Cost of each				37.25
	Say				37.25

12.45 Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of

dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with.

12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	108.86	200.00	21772.00
7010	Galvanised Steel celling section (size 80x26x0.50 mm)	metre	238.14	39.00	9287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3810.24
	Strap hanger				
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.00	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	1000.00	60.00	600.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	145.00	184.15
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
	12 mm dia 40 mm long with 6 mm dia bolt				
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.30	1.70	1372.41
9999	Carriage of material etc.	L.S.	447.20	1.70	760.24
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	361.00	11228.54
0114	Beldar	day	31.104	297.00	9237.89
0131	Painter	day	10.368	361.00	3742.85
	TOTAL				71839.42
	Add Water Charges @ 1%				718.39
	TOTAL				72557.81
	Add CPOH @ 15%				10883.67
	Cost of 103.68 sqm				83441.48
	Cost of 1 sqm				804.80
	Say				804.80

12.45.2 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095-Part I.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 103.68 sqm. MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm				
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	108.86	237.00	25799.82
7010	Galvanised Steel celling section (size 80x26x0.50 mm)	metre	238.14	39.00	9287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3810.24
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.00	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	1000.00	60.00	600.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	145.00	184.15
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.30	1.70	1372.41
9999	Carriage of material etc.	L.S.	447.20	1.70	760.24
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	361.00	11228.54
0114	Beldar	day	31.104	297.00	9237.89
0131	Painter	day	10.37	361.00	3743.57
	TOTAL				75867.96
	Add Water Charges @ 1%				758.68
	TOTAL				76626.64
	Add CPOH @ 15%				11494.00
	Cost of 103.68 sqm				88120.64
	Cost of 1 sqm				849.93
	Say				849.95

12.45.3 12.5 mm thick tapered edge gypsum moisture resistant board.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 103.68 sqm. MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm				
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	108.86	271.00	29501.06
7010	Galvanised Steel celling section (size 80x 26x0.50 mm)	metre	238.14	39.00	9287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3810.24
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.00	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	1000.00	60.00	600.00
7016	Joint filler	kilogram	22.81	22.00 5	01.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	145.00	184.15
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm l ong with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.30	1.70	1372.41
9999	Carriage of material etc.	L.S.	447.20	1.70	760.24
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	361.00	11228.54
0114	Beldar	day	31.104	297.00	9237.89
0131	Painter	day	10.368	361.00	3742.85
	TOTAL				79568.48
	Add Water Charges @ 1%				795.68
	TOTAL				80364.16
	Add CPOH @ 15%				12054.62
	Cost of 103.68 sqm				92418.78
	Cost of 1 sqm				891.38
	Say				891.40

12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 103.68 sqm. MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7028	12.5 mm thick Fully Perforated gypsum board	sqm	108.86	927.00	100913.22
7010	Galvanised Steel celling section (size 80x 26x0.50 mm)	metre	238.14	39.00	9287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3810.24
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.00	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	1000.00	60.00	600.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	145.00	184.15
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.30	1.70	1372.41
9999	Carriage of material etc.	L.S.	447.20	1.70	760.24
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	361.00	11228.54
0114	Beldar	day	31.104	297.00	9237.89
0131	Painter	day	10.368	361.00	3742.85
	TOTAL				150980.64
	Add Water Charges @ 1%				1509.81
	TOTAL				152490.45
	Add CPOH @ 15%				22873.57
	Cost of 103.68 sqm				175364.02
	Cost of 1 sqm				1691.40
	Say				1691.40

12.46 Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8mm and weighing not less than 100 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 grating.				
	MATERIAL:				
7857	P.T.M.T. Grating square slit 150 mm	each	1.00	77.00	77.00
9999	Carriage of material and fixing charges.	L.S.	4.16	1.70	7.07
	TOTAL				84.07
	Add Water Charges @ 1%				0.84
	TOTAL				84.91
	Add CPOH @ 15%				12.74
	Cost of each				97.65
	Say				97.65

12.47 Providing & fixing UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8 mm dia G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approxirnately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.

12.47.1 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm.				
	MATERIAL:				
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	240.408	538.00	129339.50
9999	Carriage of sheet	L.S.	104.00	1.70	176.80
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre				
	No. of bolts in one lap 5.1/0.3 =17 Nos.				
	2x26(laps)xl7 Nos. = 884 Nos				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.00	25.00	2210.00
	G.I.,J or L hooks 8mm dia.				
	(No. of purlins to be used 5 on either side) 2x5x27				
	(No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos				
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.00	110.00	8910.00
1207	G.I. Limpet washer	100 nos	1694.00	35.00	592.90
	(total of seam and J bolts)				
	884+810= 1694				
1208	Bitumen washer	100 Nos	1694.00	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	53.82	1.70	91.49
	LABOUR:				
0130	Mistry	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	15.50	361.00	5595.50
0114	Beldar	day	15.50	297.00	4603.50
	TOTAL				152584.54
	Add Water Charges @ 1%				1525.85
	TOTAL				154110.39
	Add CPOH @ 15%				23116.56
	Cost of 184.518 sqm				177226.95
	Cost of 1 sqm				960.49
	Say				960.50

12.47.2 2 mm thick flat.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm.				
	MATERIAL:				
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	465.00	111789.72
9999	Carriage of sheet	L.S.	104.00	1.70	176.80
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre				
	No. of bolts in one lap 5.1/0.3 =17 Nos.				
	2x26(laps)xl7 Nos. = 884 Nos				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.00	25.00	2210.00
	G.I.,J or L hooks 8mm dia.				
	(No. of purlins to be used 5 on either side) 2x5x27				
	(No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos				
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.00	110.00	8910.00
1207	G.I. Limpet washer	100 nos	1694.00	35.00	592.90
	(total of seam and J bolts)				
	884+810= 1694				
1208	Bitumen washer	100 Nos	1694.00	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.91	1.70	45.75
9999	Sundries	L.S.	53.82	1.70	91.49
	LABOUR:				
0130	Mistry	day	1.30	393.00	510.90
0112	Carpenter 2nd class	day	15.50	361.00	5595.50
0114	Beldar	day	15.50	297.00	4603.50
	TOTAL				135034.76
	Add Water Charges @ 1%				1350.35
	TOTAL				136385.11
	Add CPOH @ 15%				20457.77
	Cost of 184.518 sqm				156842.88
	Cost of 1 sqm				850.01
	Say				850.00

12.48 Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
8670	Mangalore tiles 20 mm thick	each	160.00	10.50	1680.00
2207	Carriage of brick tiles	1000 Nos	160.00	170.63	27.30
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.30	393.00	117.90
0114	Beldar	day	1.56	297.00	463.32
9999	Sundries	L.S.	13.00	1.70	22.10
	TOTAL				2310.62
	Add Water Charges @ 1%				23.11
	TOTAL				2333.73
	Add CPOH @ 15%				350.06
	Cost of 10 sqm				2683.79
	Cost of 1 sqm				268.38
	Say				268.40

12.49 Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20 mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.60 sqm.				
8669	Mangalore ridge tiles 20 mm thick	each	12.00	29.00	348.00
2207	Carriage of brick tiles	1000 Nos	12.00	170.63	2.05
	LABOUR:				
0123	Mason (brick layer) 1st class	day	0.01	393.00	3.93
0114	Beldar	day	0.15	297.00	44.55
9999	Sundries	L.S.	2.60	1.70	4.42
	TOTAL				402.95
	Add Water Charges @ 1%				4.03
	TOTAL				406.98
	Add CPOH @ 15%				61.05
	Cost of 3.6 sqm				468.03
	Cost of 1 sqm				130.01
	Say				130.00

12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 216.14 sqm. Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- 20.2x10.70m = 216.14 sqm. MATERIAL: Sheets used = 20 Nosx10.70mx1.06m = 226.84sqm Add 3% wastage = 6.81 Total = 233.65sqm				
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	435.00	101637.75
9999	Carriage of sheets	L.S.	104.00	1.70	176.80
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	476.00	110.00	5236.00
1208	Bitumen washer	100 Nos	476.00	30.00	142.80
1209	G.I. plain washer thick	100 Nos	476.00	35.00	166.60
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.06	1.70	13.70
9999	Sundries	L.S.	39.52	1.70	67.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0130	Mistry	day	2.34	393.00	919.62
0112	Carpenter 2nd class	day	9.34	361.00	3371.74
0114	Beldar	day	9.34	297.00	2773.98
	TOTAL				114506.17
	Add Water Charges @ 1%				1145.06
	TOTAL				115651.23
	Add CPOH @ 15%				17347.68
	Cost of 216.14 sqm				132998.91
	Cost of 1 sqm				615.34
	Say				615.35

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete.

12.51.1 Ridges plain (500 - 600 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20.20 metre.				
	MATERIAL:				
	One piece plain ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre + 5% wastage = 23.11 metre				
8672	Precoated galvanised steel plain ridges	metre	23.11	440.00	10168.40
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.70	22.98
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0130	Mistry	day	0.14	393.00	55.02
0112	Carpenter 2nd class	day	0.55	361.00	198.55
0114	Beldar	day	1.64	297.00	487.08
	TOTAL				10943.52
	Add Water Charges @ 1%				109.44
	TOTAL				11052.96
	Add CPOH @ 15%				1657.94
	Cost of 20.2 metre				12710.90
	Cost of 1 metre				629.25
	Say				629.25

12.51.2 Flashings / Aprons (Upto 600 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20.20 metres completed length.				
	MATERIAL:				
8673	Precoated galvanised steel flashings/aprons 20.20 + 5% wastage = 23.11 metre	metre	23.11	440.00	10168.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of appron pieces. (The appron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.70	5.52
9999	Sundries	L.S.	3.25	1.70	5.52
	LABOUR:				
0130	Mistry	day	0.07	393.00	27.51
0112	Carpenter 2nd class	day	0.28	361.00	101.08
0114	Beldar	day	0.82	297.00	243.54
	TOTAL				10551.57
	Add Water Charges @ 1%				105.52
	TOTAL				10657.09
	Add CPOH @ 15%				1598.56
	Cost of 20.2 metre				12255.65
	Cost of 1 metre				606.72
	Say				606.70

12.51.3 North light curves.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20.20 metres long completed length.				
	MATERIAL:				
8675	Precoated galvanised steel north light curves 20.20 + 5% wastage = 23.11 metre	metre	23.11	455.00	10515.05
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.00	110.00	440.00
1209	G.I. plain washer thick	100 Nos	40.00	35.00	14.00
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.70	16.80
9999	Sundries	L.S.	6.24	1.70	10.61
	LABOUR:				
0130	Mistry	day	0.10	393.00	39.30
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				11453.06
	Add Water Charges @ 1%				114.53
	TOTAL				11567.59
	Add CPOH @ 15%				1735.14
	Cost of 20.2 metre				13302.73
	Cost of 1 metre				658.55
	Say				658.55

12.51.4 Barge board (Upto 300 mm).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 8.23 metre.				
	MATERIAL:				
	Completed length of barge boards = 8.23 + 5% wastage = 8.64 metre				
8676	Precoated galvanised steel barge board	metre	8.64	445.00	3844.80
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.00	40.00	20.00
1211	G.I. plain washer for seam bolts	100 Nos	10.00	30.00	3.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1208	Bitumen washer	100 Nos	5.00	30.00	1.50
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.36	1.70	15.91
9999	Sundries	L.S.	6.76	1.70	11.49
	LABOUR:				
0130	Mistry	day	0.04	393.00	15.72
0112	Carpenter 2nd class	day	0.06	361.00	21.66
0114	Beldar	day	0.40	297.00	118.80
	TOTAL				4052.88
	Add Water Charges @ 1%				40.53
	TOTAL				4093.41
	Add CPOH @ 15%				614.01
	Cost of 8.23 metre				4707.42
	Cost of 1 metre				571.98
	Say				572.00

12.51.5 Crimp curve.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for crimp curve 20.2 metres long Area 20.20 x 1.06 =21.412 sqm.				
	MATERIAL:				
8677	Precoated galvanised steel crimp curve	sqm	22.483	475.00	10679.42
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.00	110.00	440.00
1209	G.I. plain washer thick	100 Nos	40.00	35.00	14.00
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.70	16.80
9999	Sundries	L.S.	6.24	1.70	10.61
	LABOUR:				
0130	Mistry	day	0.10	393.00	39.30
0112	Carpenter 2nd class	day	0.30	361.00	108.30
0114	Beldar	day	1.00	297.00	297.00
	TOTAL				11617.43
	Add Water Charges @ 1%				116.17
	TOTAL				11733.60
	Add CPOH @ 15%				1760.04
	Cost of 21.412 sqm				13493.64
	Cost of 1 sqm				630.19
	Say				630.20

12.51.6 Gutter (600 mm over all girth).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre.				
	MATERIAL:				
	0.63mm thick with zinc coating not less than 275gm/sqm				
	Consider a length of 10.00m				
	Sheet used = 10x1.06m x 0.60 = 6.36 sqm.				
	Total = 6.36 metre				
8674	Precoated galvanised steel gutter	metre	10.00	455.00	4550.00
9999	Carriage of gutter	L.S.	1.04	1.70	1.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.00	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.00	32.00	22.40
1208	Bitumen washer	100 Nos	40.00	30.00	12.00
9999	Carriage of G.I. seam bolts and	L.S.	2.73	1.70	4.64
9999	Sundries	L.S.	5.33	1.70	9.06
	LABOUR:				
0102	Blacksmith 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries	L.S.	12.61	1.70	21.44
0130	Mistry	day	0.28	393.00	110.04
0102	Blacksmith 1 st class	day	0.84	393.00	330.12
0112	Carpenter 2nd class	day	0.62	361.00	223.82
0114	Beldar	day	1.68	297.00	498.96
	TOTAL				6853.83
	Add Water Charges @ 1%				68.54
	TOTAL				6922.37
	Add CPOH @ 15%				1038.36
	Cost of 10 metre				7960.73
	Cost of 1 metre				796.07
	Say				796.05

12.52 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams per sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

12.52.1 GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	MATERIAL:				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	105.00	809.00	84945.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	187.00	5516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) Including Wastage @ 10%	each	13.50	118.00	1593.00
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	72.00	10584.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	34.00	4998.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.70	319.52
9999	Carriage of materials etc.	L.S.	89.28	1.70	151.78
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				130766.80
	Add Water Charges @ 1%				1307.67
	TOTAL				132074.47
	Add CPOH @ 15%				19811.17
	Cost of 100 sqm				151885.64
	Cost of 1 sqm				1518.86
	Say				1518.85

12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	MATERIAL:				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	105.00	906.00	95130.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	187.00	5516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) Including Wastage @ 10%	each	13.50	118.00	1593.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	72.00	10584.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	34.00	4998.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.70	319.52
9999	Carriage of materials etc.	L.S.	89.28	1.70	151.78
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				140951.80
	Add Water Charges @ 1%				1409.52
	TOTAL				142361.32
	Add CPOH @ 15%				21354.20
	Cost of 100 sqm				163715.52
	Cost of 1 sqm				1637.16
	Say				1637.15

12.52.3 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16 mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm. Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105.00 sqm MATERIAL:				
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	105.00	468.00	49140.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	187.00	5516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) Including Wastage @ 10%	each	13.50	118.00	1593.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	72.00	10584.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	34.00	4998.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.70	319.52
9999	Carriage of materials etc.	L.S.	89.28	1.70	151.78
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				94961.80
	Add Water Charges @ 1%				949.62
	TOTAL				95911.42
	Add CPOH @ 15%				14386.71
	Cost of 100 sqm				110298.13
	Cost of 1 sqm				1102.98
	Say				1103.00

12.52.4 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I , of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	105.00	484.00	50820.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	187.00	5516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) Including Wastage @ 10%	each	13.50	118.00	1593.00
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	72.00	10584.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	34.00	4998.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.70	319.52
9999	Carriage of materials etc.	L.S.	89.28	1.70	151.78
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				96641.80
	Add Water Charges @ 1%				966.42
	TOTAL				97608.22
	Add CPOH @ 15%				14641.23
	Cost of 100 sqm				112249.45
	Cost of 1 sqm				1122.49
	Say				1122.50

12.53 Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture (Spintone / Cosmos/hexa) in the grid, including, cutting/ making opening for services like diffusers, grills,light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T' , bottom exposed with 24 mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.

Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC. value of 0.50(Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity<0.043 w/m 0 KC.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	MATERIAL:				
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	858.00	90090.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	29.50	192.00	5664.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	13.50	125.00	1687.50
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	147.00	77.00	11319.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	147.00	39.00	5733.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	100.00	.60	60.00
9999	Scaffolding etc.	L.S.	498.65	1.70	847.70
9999	Carriage of material etc.	L.S.	237.48	1.70	403.72
9999	Sundries	L.S.	310.70	1.70	528.19
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				138992.11
	Add Water Charges @ 1%				1389.92
	TOTAL				140382.03
	Add CPOH @ 15%				21057.30
	Cost of 100 sqm				161439.33
	Cost of 1 sqm				1614.39
	Say				1614.40

12.54 Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with.

12.54.1 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
	MATERIAL:				
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	105.00	895.00	93975.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.00	180.00	10800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.70	155.00	4293.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.00	164.00	5412.00
	Including wastage @ 10% on grid for cut outs				
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	11.00	968.00
8610	Wire Coupling Clip	each	333.00	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.00	8.00	640.00
8616	Adjustment clip 85x30x0.8 mm	each	80.00	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.00	3.00	240.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.00	50.00	4000.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	1.70	319.60
9999	Carriage of materials etc.	L.S.	90.00	1.70	153.00
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				142817.10
	Add Water Charges @ 1%				1428.17
	TOTAL				144245.27
	Add CPOH @ 15%				21636.79
	Cost of 100 sqm				165882.06
	Cost of 1 sqm				1658.82
	Say				1658.80

12.54.2 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm.				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
	MATERIAL:				
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x 600 mm and 0.5 mm thick	sqm	105.00	1000.00	105000.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.00	180.00	10800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.70	155.00	4293.50
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.00	164.00	5412.00
	Including wastage @ 10% on grid for cut outs				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	11.00	968.00
8610	Wire Coupling Clip	each	333.00	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.00	8.00	640.00
8616	Adjustment clip 85x30x0.8 mm	each	80.00	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.00	3.00	240.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.00	50.00	4000.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	1.70	319.60
9999	Carriage of materials etc.	L.S.	90.00	1.70	153.00
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				153842.10
	Add Water Charges @ 1%				1538.42
	TOTAL				155380.52
	Add CPOH @ 15%				23307.08
	Cost of 100 sqm				178687.60
	Cost of 1 sqm				1786.88
	Say				1786.90

12.55 Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection >0.70 and initial emittance >0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Area= 10 sqm+				
	Add wastage @ 3%=0.3 sqm				
	Total=10.30 sqm				
	MATERIAL:				
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	10.30	482.00	4964.60
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3654.15	818.53
0367	Portland Cement	tonne	0.044	5240.00	230.56
0368	White Cement	tonne	0.044	14000.00	616.00
2209	Carriage of cement	tonne	0.088	94.80	8.34
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	361.00	577.60
0115	Coolie	day	2.00	297.00	594.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	328.00	328.00
0101	Bhisti	day	1.00	328.00	328.00
0013	Machine for rubbing of floors	day	1.60	350.00	560.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carborandum stone etc.	L.S.	169.98	1.70	288.97
	TOTAL				9545.60
	Add Water Charges @ 1%				95.46
	TOTAL				9641.06
	Add CPOH @ 15%				1446.16
	Cost of 10 sqm				11087.22
	Cost of 1 sqm				1108.72
	Say				1108.70

12.56 Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1: 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL:				
7050	PU Primer	sqm	1.00	41.00	41.00
	Area for PU Spray = 1 sqm+				
	Add for wastage @ 10%=0.10 sqm				
	Total=1.10 sqm				
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	1.10	421.00	463.10
7052	GI wire netting 3/4" x 24 G	sqm	1.00	27.00	27.00
9999	Sundries	L.S.	6.71	1.70	11.41
9999	Polymerized mastic for all joints	L.S.	20.13	1.70	34.22
7053	400 G polythene sheet	sqm	1.00	15.00	15.00
	Wearing course i.e. 40mm cement screed 1:2:4				
9999	Cement	L.S.	44.67	1.70	75.94
9999	Graded stone	L.S.	13.75	1.70	23.38
9999	Sand	L.S.	21.48	1.70	36.52
9999	Carriage of material	L.S.	16.78	1.70	28.53
	LABOUR:				
9999	For PU spray	L.S.	80.54	1.70	136.92
9999	For cement screed with Polythene sheet	L.S.	53.69	1.70	91.27
	TOTAL				984.29
	Add Water Charges @ 1%				9.84
	TOTAL				994.13
	Add CPOH @ 15%				149.12
	Cost of 1 sqm				1143.25
	Say				1143.25

12.57 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm. MATERIAL: Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add Wastage @ 10% =1.00 sqm Total =11.00sqm				
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	11.00	204.00	2244.00
9999	Sundries including GL wire 20 SWg and Virgin polythene bags 200 gram	L.S.	52.00	1.70	88.40
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	Sundries (screws and washers)	L.S.	20.00	1.70	34.00
	TOTAL				2711.40
	Add Water Charges @ 1%				27.11
	TOTAL				2738.51
	Add CPOH @ 15%				410.78
	Cost of 10 sqm				3149.29
	Cost of 1 sqm				314.93
	Say				314.95

12.58 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through

autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100.00 sqm. MATERIAL: Details of cost for 100 sqm Ceiling area = 100 sq.m Add wastage @ 5% = 0.05 Sq.m Total =100.05 sqm MATERIAL:				
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	100.05	688.00	68834.40
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) including wastage of 10%	each	29.50	187.00	5516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metr long) including wastage of 10%	e each	13.50	118.00	1593.00
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long) including wastage of 10% on grid for cut outs	each	147.00	72.00	10584.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long) including wastage of 10% on grid for cut outs	each	147.00	34.00	4998.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
9999	Cariage of materials	L.S.	89.28	1.70	151.78
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.70	319.52
	LABOUR:				
0111	Carpenter 1st class	day	28.00	393.00	11004.00
0114	Beldar	day	23.00	297.00	6831.00
	TOTAL				114656.20
	Add Water Charges @ 1%				1146.56
	TOTAL				115802.76
	Add CPOH @ 15%				17370.41
	Cost of 100.00 sqm				133173.17
	Cost of 1 sqm				1331.73
	Say				1331.75

12.59 Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of

required size and other end of angle hanger fixed with intermediate G.I chanels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting with.

12.59.1 a. 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 103.68 sqm. Details of cost for 10.8 m x 9.6m = 103.68 sqm MATERIAL: Area = 103.68 sq.m + Add. Wastage of 5% = 5.18 sqm Total = 108.86 sqm				
8785	8 mm thick tapered edge calcium silicate board	sqm	108.86	368.00	40060.48
7010	Galvanised Steel celling section (size 80x 26x0.50 mm)	metre	238.14	39.00	9287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3810.24
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.00	25.00	540.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7020	All drive screws (for gypsum board)	100 Nos	1000.00	60.00	600.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	50.00	3600.00
7018	Joint tape roll	roll	1.27	145.00	184.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
9999	Cariage of materials	L.S.	447.20	1.70	760.24
9999	Sundries i.e rawl plug, scaffolding etc.	L.S.	807.30	1.70	1372.41
	LABOUR:				
0112	Carpenter 2nd class	day	31.10	361.00	11227.10
0114	Beldar	day	31.10	297.00	9236.70
0131	Painter	day	10.37	361.00	3743.57
	TOTAL				90053.99
	Add Water Charges @ 1%				900.54
	TOTAL				90954.53
	Add CPOH @ 15%				13643.18
	Cost of 103.68				104597.71
	Cost of 1 sqm				1008.85
	Say				1008.85

12.60 Providingand fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183,density 48 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	Details of For 10 sqm				
	Area for 10.00sqm.				
	(Finished surface)= 10.00sqm.+				
	Add 10% for ovelappings & wastage= 1.00sqm.				
	Total= 11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	211.00	2321.00
9999	GI chiken mesh 12.5mm x 24 SWG	L.S.	351.00	1.70	596.70
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.00	1.70	176.80
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	393.00	393.00
0114	Beldar	day	2.00	297.00	594.00
	TOTAL				4081.50
	Add Water Charges @ 1%				40.82
	TOTAL				4122.32
	Add CPOH @ 15%				618.35
	Cost of 10 sqm				4740.67
	Cost of 1 sqm				474.07
	Say				474.05

12.61 Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceilng and held in position by criss- crossing GI wire.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10.00 sqm.				
	Area for 10.00sqm.				
	(Finished surface)= 10.00sqm.+				
	Add 10% for ovelappings & wastage= 1.00sqm.				
	Total= 11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	211.00	2321.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.00	1.70	88.40
	LABOUR:				
0111	Carpenter 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
	TOTAL				2754.40
	Add Water Charges @ 1%				27.54
	TOTAL				2781.94
	Add CPOH @ 15%				417.29
	Cost of 10.00 sqm				3199.23
	Cost of 1 sqm				319.92
	Say				319.90

12.62 Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m3,50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to wall wirh screw, rawel plug & washers and held and in position by criss cossing GI wire etc. complete as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	(Finished surface) = 10.00sqm.+				
	Add 10 % for overlapping and wastage = 1.00 sqm				
	Total=11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	211.00	2321.00
9999	Sundries including GI wire 20 SWg and Virgin polythene bags 200 gram and Carriage	L.S.	52.00	1.70	88.40
	LABOUR:				
0111	Carpenter 1st class	day	0.50	393.00	196.50
0114	Beldar	day	0.50	297.00	148.50
9999	sundries (screws & washers)	L.S.	20.00	1.70	34.00
	TOTAL				2788.40
	Add Water Charges @ 1%				27.88
	TOTAL				2816.28
	Add CPOH @ 15%				422.44
	Cost of 10.00 sqm				3238.72
	Cost of 1 sqm				323.87
	Say				323.85

12.63 Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strctly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the perfomance of SRI and also the durabitity of coating, all complete as per direction of Engineer-in-incharge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
7238	High Albedo paint	kg	7.17	246.00	1763.82
9999	Carriage of paint	L.S.	4.53	1.70	7.70
	LABOUR:				
0131	Painter	day	0.54	361.00	194.94
0114	Beldar	day	0.54	297.00	160.38
	(for cleanign the surface)				
9999	Sundries (Brushes & T&P etc.)	L.S.	13.52	1.70	22.98
	TOTAL				2149.82
	Add Water Charges @ 1%				21.50
	TOTAL				2171.32
	Add CPOH @ 15%				325.70
	Cost of 10 sqm				2497.02
	Cost of 1 sqm				249.70
	Say				249.70

S.NO.	Correction Slip No.	Reference No.	Contents in Brief

S.NO.	Correction Slip No.	Reference No.	Contents in Brief