सत्यमेव जयते

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

ANALYSIS OF RATES FOR DELHI

(V0L.1)

2007

PUBLISHED BY:
DIRECTOR GENERAL OF WORKS, CPWD, NIRMAN BHAWAN, NEW DELHI

सत्यमेव जयते

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

ANALYSIS OF RATES FOR DELHI

(V0L.1)

2007

PUBLISHED BY:
DIRECTOR GENERAL OF WORKS, CPWD, NIRMAN BHAWAN, NEW DELHI

© All rights reserved. No part of this publication, either in English or in Hindi, may be reproduced in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage and retrieval system, without permission, in writing, from the Director General (Works), CPWD, New Delhi. Photocopying of this book is strictly prohibited

A GOVERNMENT OF INDIA PUBLICATION

Published by
DIRECTOR GENERAL (WORKS)
CPWD, NIRMAN BHAWAN, NEW DELHI-110 011
&
Printed & Marketed by
JAIN BOOK AGENCY
Authorised Dealers of Govt. Publications
C-9, Connaught Place, New Delhi-110001
Phones : 23416390 upto 97, 41513852
E-mail : sales@jainbookagency.com
Website : www.jainbookagency.com

Distributed by
JBA DISTRIBUTORS
N-67, First Floor, Munshiram Building,
Connaught Place, New Delhi-110001
Phone : 41523870, 23354824 Fax : 41513850
E-mail : sales@jba.in
Website : www.jba.in

JAIN BOOK AGENCY (SOUTHEND)
1, Aurobindo Place Market,
Hauz Khas, New Delhi-110016
Phone : 26567066, 26566113,41758700
E-mail : sales@jainbookagency.com
Website : www.jainbookagency.com

JAIN BOOK AGENCY (GURGAON)
12, Central Plaza Mall, Sector 53,
Golf Course Road,
Gurgaon 122002 Haryana
Phone : 4143020,
Moblile 9810666810

☎ **DIAL-A-BOOK**
011-4175 8700

Books will be delivered next day by COURIER
(Payment to courier-boy)
in Delhi, Noida, Ghaziabad, Faridabad &
Gurgaon (nominal courier charges extra)

Also available at
All Leading Booksellers & Authorised Govt. Dealers In India

Price : Rs. 3000/- per set of two volumes (excluding postage and forwarding charges etc.)

FOREWORD

Central Public Works Department Analysis of Rates for Delhi is a very comprehensive and useful document. It is based on scientific assessment of inputs of materials, labour and machinery in various items of work normally encountered in a project.

It was first compiled in the year 1950, followed by publication or revisions in 1955, 1962, 1972, 1977, 1985 and 1997. Since publication of DAR, 1997, 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 mechanised construction techniques for speedier construction. This has necessitated revision of existing DAR, 1997 to include the above changes. Accordingly, this Analysis of Rates for Delhi, 2007 has been prepared incorporating element of machinery and prefabricated building components, wherever applicable.

Earlier C.P.W.D. Analysis of Rates for Delhi was a confidential document and was issued to CPWD Officers and Government Departments only. In this age of transparency, we feel that this is an anachronism. Therefore, for the first time DAR, 2007 is being published as an open document and shall be available in two volumes. This will facilitate in obtaining feed back from the construction industry and the professionals for continuous updation and improvement in the document.

Although DAR, 2007 contains most of the items of DAR, 1997, analysis of 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, 2007. **Several new analysis of items pertaining to new materials and new technologies in the construction sector have also been included.** Analysis of rates of many items also incorporate element of machinery instead of the lump sum provisions.

I wish to place on record the technical input and the effective coordination on the part of Shri D.S.Sachdev, ADG(TD) and the efforts put in by Shri Suresh Kumar, CE(CSQ) and his team of officers in TAS unit in finalising DAR, 2007 in a record time.

I am sure that C.P.W.D. Analysis of Rates for Delhi, 2007 along with Delhi Schedule of Rates, 2007 shall be a useful document to a number of departments, public sector undertakings, private sector builders and architects etc.

(K. Srinivasan)
DIRECTOR GENERAL (WORKS)

New Delhi
February, 2008

PREFACE

1.0 C.P.W.D. Analysis of Rates for Delhi, 2007 is the revised edition of C.P.W.D. Analysis of Rates for Delhi, 1997.

2.0. DAR, 2007 incorporates most of the analysis of DAR, 1997 with all correction slips up-to date and will replace DAR, 1997.

3.0 DAR, 2007 is a bilingual document (Hindi version will follow).

4.0 DAR, 2007 is published in two volumes as under:

Volume Number	Sub-head No.	Contents/ Chapters
One	00	Basic Rates
	01	Carriage of materials
	02	Earth Work
	03	Mortars
	04	Concrete Work
	05	Reinforced Cement Concrete Work
	06	Brick Work
	07	Stone Work
	08	Marble 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 Installation
	18	Water Supply
	19	Drainage
	20	Pile Work
	21	Aluminium Work
	22	Water Proofing
	23	Horticulture and Landscape

5.0 Analysis of many items in DAR, 2007, 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, 2007. Several new analysis of items pertaining to new materials and new technologies in the construction sector have also been included. Analysis of rates of many items also incorporate element of machinery instead of lump sum provisions.

6.0 Analysis have been modified to include execution of different works by using various electrical and mechanical equipments i.e. excavators, tower cranes, mobile cranes, mechanical platforms, Batch Mix plant, transit mixers and pumps, piling rigs, pneumatic cutters, chisels, chippers, hammers etc. Built-in provision has been taken in the analysis of rates for new construction technology/ mechanisation.

7.0 Analysis of dry work using prefabricated materials and pre-finished elements for speedier construction are included viz gypsum block walls, calcium silicate and non-asbestos cement board partitions, pre-finished counter tops for kitchen and washbasins, pre-moulded and pre-finished stone work in risers and treads of steps and window sills, dry stone cladding, sub-frames for windows, use of chemical and mechanical fasteners, laying of tiles in flooring and dado with polymer based adhesives etc.

8.0 DAR, 2007 is based on the study of current market rates of materials at Delhi, collected during the period of April, 2007 to October, 2007. Generally, the basic rates of materials, incorporated in the analysis, pertain to materials conforming to BIS Standards/CPWD Specifications/Materials of best quality available in the market.

Labour rates are the minimum wages issued by the Government of Delhi w.e.f. 01-09-2007.

9.0 Lump sum provision of labour/ T& P is replaced with mechanisation inputs. Prominent items incorporating mechanization are earth-work in excavation, RMC / BMC, brick work in superstructure above floor V level, road work, dismantling of R.C.C. work, dismantling of C.C. and flexible pavements, pile work etc.

10.0 Number of uses of steel and wooden shuttering have been reduced from 80 and 16 times to 40 and 8 times respectively, so that proper quality of shuttering is put to use.

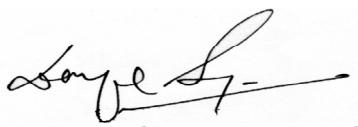
11.0 Contractor's profit and Overheads @ 15% (CP=7.5% & OH 7.5%) has been adopted as approved by the DGW vide Office Memorandum no. DG(W)MAN/150 dated 14-12-2007.

12.0 Sundries have been considered as 1.00 times based on Cost Index of Delhi as 100 over DPAR 01-10-2007.

13.0 A lot of effort has gone into the preparation of this Analysis of Rates. I convey my deep appreciation and sincere thanks to Shri Suresh Kumar, CE, CSQ, Shri Mayank Tilak, S.E. (TAS), Sh. S.K.Jain EE(S&S) –I, Sh.S.C. Malik EE (S&S) -II, Sh. A.V.R.Bhat EE (S&S) – III, Sh. V.P.Singh AE, Sh. H.N.Singh AE, Sh. S.K.Sarkar AE, Sh.L.C.Gothwal AE, Sh.G.K. Jindal AE, Sh. S.S.Pal AE, Sh. Bahal Singh D/Man Gr-I, Sh Upender Walia D/Man Gr.-I and other officers and staff of TAS Unit for sincere efforts made in the preparation of this document in such a short time.

14.0 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.**

15.0 In case of any discrepancy between English and Hindi versions, the English version shall be held valid. Suggestions for improvement are welcome.



(D.S.SACHDEV)
ADG (TD), CPWD,
Nirman Bhawan, New Delhi

New Delhi
February, 2008

Contents

Vol. 1

SH. NO.	NAME OF SUB HEAD	PAGE NO.
	BASIC RATES	
0.1	Hire Charges of Plants	1-2
0.2	Labour	3-4
0.3	Materials	5-47
0.4	Carriage	48-50
	SUB - HEADS	
1.	Carriage of Material	51-60
2.	Earth Work	61-104
3.	Mortars	105-115
4.	Concrete Work	117-145
5.	Reinforced Cement Concrete Work	147-198
6.	Brick Work	199-227
7.	Stone Work	229-280
8.	Marble Work	281-292
9.	Wood and PVC Work	293-431
10.	Steel Work	433-461
11.	Flooring	463-517
12.	Roofing	519-578

Note: For remaning Sub Heads refer to Vol.2

BASIC
RATES

BASIC RATES

0.1 HIRE CHARGES OF PLANTS

Code No	Description	Unit	Rate Rs.
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	Day	595.00
0002	Hire charges of Concrete Mixer 0.14 cubic metre	Day	400.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	Day	1,000.00
0004	Production cost of concrete by batch mix plant.	cum	200.00
0005	Hire charges of Diesel Truck - 9 tonne	Day	1,008.00
0006	Hire charges of Spraying machine including electric charges	Day	173.00
0007	Hire charges of Coaltar Sprayer	Day	250.00
0008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	Day	7,050.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	80.00
0010	Hire charges of Derrick monkey rope	Day	500.00
0011	Hire charges of Pump set of capacity 4000 litres/hour.	Day	300.00
0012	Vibrator (Needle type 40mm)	Day	200.00
0013	Machine for rubbing of floors	Day	200.00
0014	Front end loader	Day	6,000.00
0016	Mastic Cooker	Day	515.00
0017	Hire and running charges of tipper	Day	1,030.00
0018	Hire and running charges of loader.	Day	800.00
0019	Hand Grinder For mirror polish	Day	100.00
0020	Hydraulic Excavator (3D) with driver and fuel.	Day	6,000.00
0021	Pin vibrator	Day	288.00
0022	Surface Vibrator	Day	330.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	per day	28,000.00
0025	Hire and running charges of light crane.	per day	2,000.00
0026	Hire and running charges of bentonite pump.	per day	4,000.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	per day	28,000.00
0028	Hire and running charges of crane 20 tonne capacity.	per day	8,000.00
0029	Carriage of concrete by transit mixer.	km/ cum	18.00
0030	Generator 250 KVA.	per day	1,600.00
0033	Paint applicator.	per day	680.00

Code No	Description	Unit	Rate Rs.
0037	Mobile crane.	per day	5,000.00
0038	Tractor with ripper attachment.	per day	1,000.00
0039	Tractor with trolley.	per day	1,000.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters/ hammers.	day	1,600.00
0041	Joint cutting machine with 2-3 blades	per day	800.00
0042	C.C .batch mix plant.	day	88,000.00
0043	Road sweeper	day	480.00
0045	Slip form paver with sensor.	day	12,000.00
0046	Water tanker.	day	800.00
0047	Concrete joint cutting machine.	day	800.00
0048	Texturing machine.	day	800.00

Notes:- Above hire - charges include cost of services of operating staff and supply of lubricating oil.

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 Rs.
0100	Bandhani	Day	138.45
0101	Bhisti	Day	138.45
0102	Blacksmith 1st class	Day	151.50
0103	Blacksmith 2nd class	Day	141.60
0111	Carpenter 1st class	Day	151.50
0112	Carpenter 2nd class	Day	141.60
0113	Chowkidar	Day	135.25
0114	Beldar	Day	135.25
0115	Coolie	Day	135.25
0116	Fitter (grade 1)	Day	151.50
0117	Assistant Fitter or 2nd class Fitter	Day	141.60
0119	Glazier	Day	141.60
0122	Mason (for plaster of paris work) 1st class	Day	151.50
0123	Mason (brick layer) 1st class	Day	151.50
0124	Mason (brick layer) 2nd class	Day	141.60
0125	Mason (for plain stone work) 2nd class)	Day	141.60
0126	Mason (for ornamental stone work) 1st class	Day	151.50
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	151.50
0128	Mate	Day	138.45
0130	Mistry	Day	151.50
0131	Painter	Day	141.60
0132	Rock Excavator	Day	135.25
0133	Rock Breaker	Day	135.25
0134	Rock Hole Driller	Day	135.25
0135	Stone Chiseller	Day	138.45
0138	Sprayer (for bitumen, tar etc.)	Day	138.45
0139	Skilled Beldar (for floor rubbing etc.)	Day	138.45
0141	White Washer	Day	138.45
0155*	Mason (average)	Day	146.55

Code No	Description	Unit	Rate Rs.
0156*	Carpenter (average)	Day	146.55
0157	Operator (Pile/ Special machine)	Day	166.00
0159	Skilled torch operator for laying tack	Day	151.50

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 Rs.
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	30.00
0223	Non - Asbestos fibre cement corrugated sheet 6mm thick.	sqm	205.00
0224	Non - Asbestos fibre cement close fitting adjustable ridge.	metre	203.00
0225	Non - Asbestos fibre cement corrugate serrated adjustable ridge.	metre	174.00
0226	Non - Asbestos fibre cement plain wing adjustable ridge.	metre	188.00
0227	Non - Asbestos fibre cement unserrated adjustable ridge for hips.	metre	195.00
0228	Non - Asbestos fibre cement corrugated apron piece.	metre	126.00
0229	Non - Asbestos fibre cement eaves filler piece.	each	93.00
0230	Non - Asbestos fibre cement north light curves.	metre	197.00
0231	Non - Asbestos fibre cement ventilator curves.	each	267.00
0232	Non - Asbestos fibre cement barge boards 6 mm thick.	metre	232.00
0233	Non - Asbestos fibre cement ridge finial .	pair	84.00
0234	Non - Asbestos fibre cement special north light curves.	each	275.00
0235	Non - Asbestos fibre cement S type louvers.	each	161.00
0236	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	180.00
0237	Non - Asbestos multi purpose fibre cement board 8mm thick.	sqm	239.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	350.00
0286	Brick Aggregate (Single size) : 50 mm nominal size	cum	355.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	360.00
0291	Stone Aggregate (Single size) : 63 mm nominal size	cum	600.00
0292	Stone Aggregate (Single size) : 50 mm nominal size	cum	625.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	650.00
0294	Stone Aggregate (Single size) : 25 mm nominal size	cum	675.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	700.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	700.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	700.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	750.00
0302	Safeda ballies 125 mm diameter	metre	29.00
0304	Bajri	cum	510.00
0305	Bamboo 25 mm dia 2.5 metre long	score	192.00

Code No	Description	Unit	Rate Rs.
0308	Bhusa	quintal	200.00
0309	Paving bitumen S-90 of approved quality	tonne	22,500.00
0310	Bitumen emulsion	tonne	19,500.00
0312	Bitumen grade PMB - 40	M.T.	30,000.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	25,000.00
0314	Bitumen hot sealing compound : grade A	kilogram	20.00
0316	Bitumen solution primer of approved quality	litre	28.00
0317	Premoulded joint filler 12 mm thick	sqm	300.00
0318	Bitumen felt fibre base (vegetable or animal):Type 2 grade 1	sqm	45.00
0322	Bitumen felt :Type 3 grade 1	sqm	45.00
0324	Coal Tar	litre	16.00
0325	Blasting powder	kilogram	25.00
0326	Blasting fuse (fuse wire)	each	10.00
0328	White face insulating board:12 mm thick	sqm	239.00
0332	Natural colour insulating board:12 mm thick	sqm	175.00
0336	Flame retardant face insulating board: 12 mm thick	sqm	208.00
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	279.00
0341	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	258.00
0346	Extra for veneered particle board with : Teak veneering on one side and commercial veneered on other side	sqm	198.00
0347	Extra for veneered particle board with : Commercial veneering on both sides	sqm	102.00
0348	Extra for veneered particle board with : Teak veneering on both sides	sqm	366.00
0362	Brick bats	cum	253.00
0364	Wire brush	each	15.00
0365	Soft brush	each	12.00
0367	Portland Cement	tonne	4,500.00
0368	White Cement	tonne	9,700.00
0370	Coal (steam)	quintal	300.00
0373	Cramp Gun metal 25x6x300 mm	each	53.00
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	450.00
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	300.00
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	160.00
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	90.00

Code No	Description	Unit	Rate Rs.
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(.70)kg	10 Nos	1,500.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(.56)kg	10 Nos	1,300.00
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(.20)kg	10 Nos	450.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	1,650.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	1,450.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	1,175.00
0388	Brass parliamentary hinges75x100x20x3.2 mm	10 Nos	888.00
0389	Brass single acting spring hinges 150 mm	each	200.00
0390	Brass single acting spring hinges 125 mm	each	158.00
0391	Brass single acting spring hinges 100 mm	each	106.00
0392	Brass double acting spring hinges 150 mm	each	317.00
0393	Brass double acting spring hinges 125 mm	each	216.00
0394	Brass double acting spring hinges 100 mm	each	173.00
0400	Brass tower bolt (barrel type) 250x10 mm	each	123.00
0401	Brass tower bolt (barrel type) 200x10 mm	each	100.00
0402	Brass tower bolt (barrel type) 150x10 mm	each	75.00
0403	Brass tower bolt (barrel type) 100x10 mm	each	51.00
0404	Brass flush bolt 250 mm	each	84.00
0405	Brass flush bolt 150 mm	each	65.00
0406	Brass flush bolt 100 mm	each	44.00
0408	Brass handles 125 mm with plate 175x32 mm	each	85.00
0409	Brass handles 100 mm with plate 150x32 mm	each	75.00
0410	Brass handles75 mm with plate 125x32 mm	each	55.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	85.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	82.00
0413	Brass mortice latch and lock 100x65 mm with6 levers and a pair of brass lever handles	each	257.00
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	235.00
0417	Brass 150 mm floor door stopper (0.357kg)	each	104.00
0418	Brass hard drawn hooks and eyes 300 mm	10 Nos	457.00
0419	Brass hard drawn hooks and eyes 250 mm	10 Nos	423.00
0420	Brass hard drawn hooks and eyes 200 mm	10 Nos	390.00
0421	Brass hard drawn hooks and eyes 150 mm	10 Nos	364.00
0422	Brass hard drawn hooks and eyes 100 mm	10 Nos	300.00
0423	Brass casement window fastener	Each	26.00

Code No	Description	Unit	Rate Rs.
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	66.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	Each	55.00
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	46.00
0427	Brass quadrant stays 300 mm	each	73.00
0428	Brass fanlight catch	10 Nos	109.00
0429	Brass fanlight pivot	10 Nos	128.00
0430	Brass chain with hook for fan light catch	each	13.00
0431	Brass hasps and staples (safety type) 300 mm	10 Nos	458.00
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	378.00
0433	Brass hasps and staples (safety type)90 mm	10 Nos	300.00
0438	Brass Night latch	each	338.00
0442	Brass helical spring 150 mm	each	185.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	63.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	79.00
0446	Brass brackets (curtain rods) 20 mm	each	24.00
0447	Brass cupboard knob or ward robe knob 50 mm	each	18.00
0449	Brass screws 50 mm	100 Nos	107.00
0450	Brass screws 40 mm	100 Nos	96.00
0451	Brass screws 30 mm	100 Nos	86.00
0452	Brass screws 25 mm	100 Nos	76.00
0453	Brass screws 20 mm	100 Nos	53.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 .0 mm (200gms)	10 Nos	430.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4 mm	10 Nos	433.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	385.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	135.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	105.00
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	Each	92.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	Each	79.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	Each	68.00

Code No	Description	Unit	Rate Rs.
0558	Chromium plated Brass mortice latch and lock 100x65 mm with6 levers and a pair of brass lever handles	each	323.00
0568	Chromium plated brass casement window fastener	each	55.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	73.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	67.00
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	56.00
0583	Chromium plated Brass Night latch	each	383.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	25.00
0585	Chromium plated Brass screws 50 mm	100 Nos	123.00
0586	Chromium plated Brass screws 40 mm	100 Nos	150.00
0587	Chromium plated Brass screws 30 mm	100 Nos	90.00
0588	Chromium plated Brass screws 25 mm	100 Nos	83.00
0589	Chromium plated Brass screws 20 mm	100 Nos	63.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	122.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	143.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	239.00
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	78.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	54.00
0596	Bright finished or black enameled mild steel butt hinges75x47x1.70 mm	10 Nos	34.00
0597	Bright finished or black enameled mild steel butt hinges50x37x1.50 mm	10 Nos	28.00
0608	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	21.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	40.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	30.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	24.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	15.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	15.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	4.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	92.00
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	53.00
0644	Oxidised mild steel butt hinges75x47x1.70 mm	10 Nos	32.00

Code No	Description	Unit	Rate Rs.
0645	Oxidised mild steel butt hinges50x37x1.50 mm	10 Nos	27.00
0646	Oxidised mild steel parliamentary hinges150x125x27x2.8 mm	10 Nos	255.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	205.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	165.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	122.00
0650	Oxidised mild steel single acting spring hinges 150 mm	each	71.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	66.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	51.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	73.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	63.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	47.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	24.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	45.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	37.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	25.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	25.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	25.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	21.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	17.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	12.00
0668	Oxidised mild steel handles 125 mm	each	7.00
0669	Oxidised mild steel handles 100 mm	each	5.00
0670	Oxidised mild steel handles75 mm	each	3.00
0679	Oxidised mild steel hasps and staples(safety type) 150 mm	10 Nos	79.00
0680	Oxidised mild steel hasps and staples(safety type) 115 mm	10 Nos	70.00
0681	Oxidised mild steel hasps and staples(safety type)90 mm	10 Nos	52.00
0682	Oxidised mild steel screws 50 mm	100 Nos	40.00
0683	Oxidised mild steel screws 40 mm	100 Nos	35.00
0684	Oxidised mild steel screws 30 mm	100 Nos	24.00
0685	Oxidised mild steel screws 25 mm	100 Nos	16.00
0686	Oxidised mild steel screws 20 mm	100 Nos	15.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	478.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	447.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	416.00

Code No	Description	Unit	Rate Rs.
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	390.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	354.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	281.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	215.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	98.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	125.00
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	104.00
0698	Anodised Aluminium tower bolt (barrel type)300x10 mm	10 Nos	520.00
0699	Anodised Aluminium tower bolt (barrel type)250x10 mm	10 Nos	440.00
0700	Anodised Aluminium tower bolt (barrel type)200x10 mm	10 Nos	354.00
0701	Anodised Aluminium tower bolt (barrel type)150x10 mm	10 Nos	281.00
0702	Anodised Aluminium tower bolt (barrel type)100x10 mm	10 Nos	208.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	375.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	260.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	208.00
0706	Anodised Aluminium kicking plate 50 cm long100x3.15 mm	each	94.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1,100.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1,050.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1,000.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	632.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	610.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	600.00
0752	Block board construction flush door lipping	sqm of door area	245.00
0753	Square vision panel in Block board construction flush door	sqm of door area	86.00
0754	Circular vision panel in Block board construction flush door	Sqm of door area	118.00
0755	Decorative type Louvers in Block board construction flush door	sqm of door area	210.00
0757	Rebate cutting in Block board construction flush door	sqm of door area	57.00

Code No	Description	Unit	Rate Rs.
0759	Decorative plywood 4 mm	sqm	250.00
0761	Fuel wood	quintal	265.00
0763	Glue	kilogram	50.00
0765	Hessian cloth	sqm	10.00
0768	Cement Concrete Jali 50 mm thick	sqm	145.00
0769	Cement Concrete Jali 40 mm thick	sqm	115.00
0770	Cement Concrete Jali 25 mm thick	sqm	92.00
0771	Kerosene oil	litre	19.00
0773	Unslaked lime	quintal	260.00
0775	Dehradun white lime	quintal	295.00
0776	Satna lime	quintal	178.00
0777	Dry hydrated lime (factory made)	quintal	177.00
0784	Marble dust/ powder	cum	800.00
0785	Marble chips up to 4mm and downsize White & black	quintal	115.00
0788	Marble chips large size above 4 mm White & black	quintal	115.00
0810	Moorum	cum	310.00
0811	Mud (dry)	cum	20.00
0815	Dry distemper	kilogram	26.00
0816	Oil bound washable distemper/ Acrylic distemper	kilogram	40.00
0818	Linseed oil (double boiled)	litre	80.00
0820	Cement primer	litre	70.00
0821	Distemper primer	litre	73.00
0823	Pink primer (for wood)	litre	72.00
0826	Aluminium paint	litre	89.00
0827	Acid proof paint (chocolate or black)	litre	93.00
0828	Anticorrosive bituminous paint (black)	litre	52.00
0829	Black Japan	litre	65.00
0830	Enamel paint	litre	115.00
0831	Floor enamel paint in all shades except green	litre	100.00
0833	Synthetic enamel paint in black or chocolate shade	litre	115.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	120.00
0835	Plastic emulsion paint	litre	140.00
0845	Roofing paint for iron sheets in red colour	litre	95.00
0850	White lead	kilogram	60.00

Code No	Description	Unit	Rate Rs.
0851	Water proofing cement paint	kilogram	36.00
0855	Wax polish (ready made)	kilogram	150.00
0856	Ordinary varnish	litre	49.00
0857	Superior copal varnish	litre	100.00
0858	Superior spar varnish	litre	105.00
0859	Oil type wood preservative	litre	60.00
0863	Putty for wood work	kilogram	24.00
0865	Pig lead	kilogram	58.00
0868	Premixed super white gypsum plaster.	kg	5.20
0869	Plaster of Paris	kilogram	2.50
0870	Plug	each	6.00
0873	Copper pins 6 mm dia 7.5 cm long	each	7.50
0874	Black colour dark shade pigment	kilogram	42.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	65.00
0876	Green or blue medium shade pigment	kilogram	45.00
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	20.00
0966	Sand Cast iron plain shoe 150 mm dia	each	222.00
0967	Copper plate	kilogram	195.00
0969	Pulley 25 mm dia	each	18.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	767.00
0974	Top cover for rolling shutters	metre	400.00
0975	27.5 cm long wire spring grade no 2 for rolling shutters	each	170.00
0976	Ball bearing for rolling shutters	each	280.00
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and up to 16.80 sq.m area of door	sqm	400.00
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sq.m area of door	sqm	450.00
0979	Royalty for good earth	cum	11.00
0980	Royalty for sludge	cum	60.00
0982	Coarse sand (zone III)	cum	600.00
0983	Fine sand (zone IV)	cum	320.00
0992	Galvanised steel plain sheets	quintal	3,450.00
0994	Standard quality hard board sheet 3 mm thick	sqm	103.00

Code No	Description	Unit	Rate Rs.
0996	Standard quality hard board sheet 4.5 mm thick	sqm	120.00
0999	Shellac	kilogram	192.00
1000	Spirit	litre	37.00
1001	Spun yarn	kilogram	30.00
1002	Mild steel round bar 12 mm dia and below	quintal	3,100.00
1003	Mild steel round bar above 12 mm dia	quintal	3,050.00
1004	Average rate of Mild steel round bars for reinforcements	quintal	3,075.00
1005	Twisted steel / deformed bars	quintal	3,175.00
1006	Mild steel square bars	quintal	3,175.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	3,100.00
1008	Flats up to 10 mm in thickness	quintal	2,900.00
1009	Flats exceeding 10 mm in thickness	quintal	2,875.00
1010	Mild steel plates	quintal	3,400.00
1013	Mild steel sheets for tanks	quintal	3,475.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	200.00
1019	Mild steel hooks	each	22.00
1020	Mild steel rivets	quintal	3,500.00
1021	Hard drawn steel wire fabric	sqm	310.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	9.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	58.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	7.00
1025	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	18.00
1028	Straining bolts	each	50.00
1029	Galvanised steel barbed wire	quintal	4,400.00
1030	Galvanised steel turn buckles	each	9.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	13.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	9.00
1034	Bolts and nuts up to 300 mm in length	quintal	4,300.00
1035	Bolts and nuts above 300 mm in length	quintal	4,300.00
1036	Iron pintels including welded pin	each	28.00
1143	Steel beading	metre	15.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	78.00

Code No	Description	Unit	Rate Rs.
1149	Glass strip 4 mm thick40 mm deep	metre	6.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	46.00
1154	Through and bond stone	100 Nos	970.00
1157	Stone for masonry work	cum	332.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	332.00
1159	Stone dust	cum	700.00
1160	Red sand stone block	10 cudm	45.00
1161	White sand stone block	10 cudm	50.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	256.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	120.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	140.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	97.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	239.00
1169	Kota stone slab 25mm thick (rough chiseled)	Sq.m.	150.00
1174	Red sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	145.00
1175	White sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	160.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	717.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	675.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	895.00
1187	First class teak wood in scantling	10 cudm	492.00
1188	First class teak wood in planks	10 cudm	506.00
1189	Second class teak wood in scantling	10 cudm	394.00
1190	Second class teak wood in planks	10 cudm	410.00
1194	Second class deodar wood in planks	10 cudm	335.00
1196	First class kail wood in planks	10 cudm	186.00
1197	Second class kail wood in scantling	10 cudm	160.00
1198	Second class kail wood in planks	10 cudm	178.00
1199	Sal wood in scantling	10 cudm	218.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	198.00
1202	Precast terrazzo tiles 22 mm thick(medium shade)	sqm	175.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	170.00
1207	G.I. Limpet washer	100 Nos	20.00
1208	Bitumen washer	100 Nos	18.00
1209	G.I. plain washer thick	100 Nos	27.00

Code No	Description	Unit	Rate Rs.
1210	G.I. plain washer thin	100 Nos	20.00
1211	G.I. plain washer for seam bolts	100 Nos	21.00
1213	Water proofing materials	kilogram	20.00
1214	Welding by gas plant	cm	1.00
1215	Welding by electric plant	cm	1.00
1216	Whiting	quintal	329.00
1219	Wire nails	kilogram	40.00
1220	Wire mesh (rabbit)	sqm	38.00
1221	20 mm dia holding down bolts	quintal	3,800.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	75.00
1224	Hard drawn steel wire	quintal	3,100.00
1225	Mild steel flat strap fitting	quintal	2,900.00
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	230.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	200.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	170.00
1231	Extra for selected planks of second class teakwood	10 cudm	72.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	105.00
1235	Diesel oil	litre	30.25
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	6.00
1238	Extra for selected planks of first class teakwood	10 cudm	80.00
1241	Commercial LPG in cylinder.	kg	35.00
1301	Bleaching powder	quintal	1,550.00
1304	Surface box for stop cock	each	72.00
1305	Surface box for sluice valve	each	140.00
1307	Surface box for water meter	each	185.00
1309	C.I. bracket for wash basin and sinks	pair	48.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	21.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	22.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	28.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	13.00
1332	M.S.Holder bat clamp of approved design for75 mm S.C.I. pipe	each	11.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	20.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	25.00
1336	Clearing eye with chain and lid 100 mm dia	each	37.00

Code No	Description	Unit	Rate Rs.
1337	Clearing eye with chain and lid 150 mm dia	each	41.00
1339	Brass bib-cock 15 mm dia	each	157.00
1340	Brass bib-cock 20 mm dia	each	193.00
1342	Brass stop-cock 15 mm dia	each	157.00
1343	Brass stop-cock 20 mm dia	each	193.00
1350	Mosquito proof coupling of approved design	each	23.00
1352	C.I. cover and frame 300x300 mm inside	each	265.00
1353	C.I.cover without frame 300x300mm inside i/c cover of 4.50 kg	each	170.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1,395.00
1355	Rectangular cover 455x610mm without frame (low duty)	each	844.00
1356	500 mm dia cover with frame (medium duty)	each	4,257.00
1357	500 mm dia cover without frame (medium duty)	each	2,129.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	80.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	114.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	156.00
1363	Vitreous china foot rests 250x130x30 mm	pair	79.00
1364	C.I. grating 100x100 mm	each	10.00
1366	C.I. grating 150x150 mm	each	19.00
1367	C.I. grating 180x180 mm	each	23.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	10.00
1373	Rubber insertions for80 mm dia pipe joints	each	9.00
1374	Rubber insertions for 100 mm dia pipe joints	each	12.00
1375	Rubber insertions for 125 mm dia pipe joints	each	13.00
1376	Rubber insertions for 150 mm dia pipe joints	each	15.00
1377	Rubber insertions for 200 mm dia pipe joints	each	20.00
1378	Rubber insertions for 250 mm dia pipe joints	each	30.00
1379	Rubber insertions for 300 mm dia pipe joints	each	38.00
1380	Rubber insertions for 350 mm dia pipe joints	each	45.00
1381	Rubber insertions for 400 mm dia pipe joints	each	66.00
1382	Rubber insertions for 450 mm dia pipe joints	each	83.00
1383	Rubber insertions for 500 mm dia pipe joints	each	106.00
1384	Rubber insertions for 600 mm dia pipe joints	each	118.00
1392	Mirror of superior make glass 60x45 cm	each	249.00
1396	Vitreous china pedestal for wash basin	each	527.00

Code No	Description	Unit	Rate Rs.
1397	Pig lead	kilogram	58.00
1464	S & S.C.I.standard specials up to 300 mm dia (heavy class)	quintal	2,400.00
1466	S & S.C.I.standard specials over 300 mm dia (heavy class)	quintal	2,595.00
1468	Flanged C.I. standard specials up to 300 mm dia(heavy class)	quintal	4,320.00
1470	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	4,772.00
1472	Casing pipe 100 mm dia	metre	292.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	204.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	333.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	415.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	465.00
1540	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	138.00
1541	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	203.00
1542	Flush pipe and spreaders G.I.for range of three squatting plates urinal	each	255.00
1543	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	320.00
1545	G.I. pipes 15 mm dia	metre	58.00
1546	G.I. pipes 20 mm dia	metre	77.00
1547	G.I. pipes 25 mm dia	metre	109.00
1548	G.I. pipes 32 mm dia	metre	140.00
1549	G.I. pipes 40 mm dia	metre	160.00
1550	G.I. pipes 50 mm dia	metre	211.00
1551	G.I. pipes 65 mm dia	metre	269.00
1552	G.I. pipes 80 mm dia	metre	355.00
1555	G.I. back (jam) nuts25 mm dia	each	5.00
1559	G.I. back (jam) nuts65 mm dia	each	15.00
1608	G.I. tees (equal) 25 mm	each	38.00
1612	G.I. tees (equal) 65 mm	each	215.00
1614	G.I. inlet connection	each	50.00
1616	S.C.I. soil, waste and vent single socketed pipe1.80 metres long:75mm dia	each	537.00
1617	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 100mm dia	each	610.00
1618	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 150mm dia	each	1,205.00

Code No	Description	Unit	Rate Rs.
1620	S.C.I. plain bend75mm dia	each	140.00
1621	S.C.I. plain bend 100mm dia	each	178.00
1622	S.C.I. plain bend 150mm dia	each	407.00
1624	S.C.I. bend with access door 75mm dia	each	161.00
1625	S.C.I. bend with access door 100mm dia	each	194.00
1627	S.C.I. plain single equal junctions75x75x75 mm dia	each	205.00
1628	S.C.I. plain single equal junctions100x100x100 mm dia	each	265.00
1630	S.C.I. single equal junctions75x75x75 mm dia with access door.	each	224.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door.	each	297.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	296.00
1634	S.C.I. plain double equal junctions100x100x100x100 mm dia	each	394.00
1636	S.C.I. double equal junctions75x75x75x75 mm dia with access door.	each	333.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door.	each	417.00
1639	Slotted cowl (terminal guard)75 mm dia	each	109.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	152.00
1641	G.I. Union 15 mm nominal bore	each	32.00
1642	G.I. Union 20 mm nominal bore	each	50.00
1643	G.I. Union 25 mm nominal bore	each	59.00
1644	G.I. Union 32 mm nominal bore	each	73.00
1645	G.I. Union 40 mm nominal bore	each	108.00
1646	G.I. Union 50 mm nominal bore	each	158.00
1647	G.I. Union 65 mm nominal bore	each	324.00
1648	G.I. Union 80mm nominal bore	each	392.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	4.00
1653	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	288.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	321.00
1659	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	423.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	453.00
1666	Sand cast iron heel rest bend75mm dia	each	165.00

Code No	Description	Unit	Rate Rs.
1667	Sand cast iron heel rest bend 100mm dia	each	197.00
1669	S.C.I. single equal invert branch of required degree75x75x75 mm dia	each	239.00
1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	321.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	314.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	422.00
1674	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	382.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	458.00
1682	S.C.I. door pieces 75 mm dia	each	211.00
1683	S.C.I. door pieces 100 mm dia	each	291.00
1685	S.C.I. collar 75 mm dia	each	82.00
1686	S.C.I. collar 100 mm dia	each	110.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	18.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	25.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	25.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	35.00
1693	S.C.I. hand pump	each	450.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	118.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	135.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	157.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	228.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	333.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	398.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	642.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	719.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	836.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	986.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1,243.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1,500.00

Code No	Description	Unit	Rate Rs.
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1,543.00
1714	R.C.C. collarsNP2 class 100 mm dia	each	16.00
1715	R.C.C. collarsNP2 class 150 mm dia	each	21.00
1716	R.C.C. collarsNP2 class 250 mm dia	each	34.00
1717	R.C.C. collarsNP2 class 300 mm dia	each	42.00
1718	R.C.C. collarsNP2 class 450 mm dia	each	63.00
1719	R.C.C. collarsNP2 class 500 mm dia	each	73.00
1720	R.C.C. collarsNP2 class 600 mm dia	each	92.00
1721	R.C.C. collarsNP2 class 700 mm dia	each	102.00
1723	R.C.C. collarsNP2 class 800 mm dia	each	146.00
1724	R.C.C. collarsNP2 class 900 mm dia	each	178.00
1725	R.C.C. collarsNP2 class 1000 mm dia	each	210.00
1726	R.C.C. collarsNP2 class 1100 mm dia	each	241.00
1727	R.C.C. collarsNP2 class 1200 mm dia	each	280.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	30.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	42.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	80.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	85.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	113.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	165.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1,192.00
1871	White vitreous china laboratory sink450x300x150 mm	each	664.00
1872	White vitreous china laboratory sink600x450x200 mm	each	1,400.00
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	275.00
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	250.00
1878	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	28.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	40.00
1881	Spun yarn	kilogram	30.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	405.00
1885	15 mm C.P.brass tap	each	103.00
1889	C.P.brass toilet paper holder of standard size	each	70.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	125.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	158.00

Code No	Description	Unit	Rate Rs.
1895	C.P.brass trap40 mm dia	each	99.00
1896	100 mm S.C.I. trap with vent heel	each	260.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	221.00
1898	100 mm S.C.I. trap with 100 mm inlet and75 mm outlet	each	164.00
1900	S.W. gully trap P type 100x100 mm	each	55.00
1902	S.W. gully trap P type 150x100 mm	each	86.00
1904	S.W. gully trap P type 180x150 mm	each	160.00
1913	Vitreous china lipped front urinal	each	380.00
1915	Vitreous china squatting plate urinal	each	610.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	175.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	260.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	300.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	235.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	296.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	330.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	483.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	700.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1,160.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	238.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	305.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	410.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	618.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1,085.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	1,540.00
1940	C.I.sluice valve (with caps) class I : 100 mm dia	each	1,890.00
1941	C.I.sluice valve (with caps) class I : 125 mm dia	each	2,365.00
1942	C.I.sluice valve (with caps) class I : 150 mm dia	each	2,840.00
1943	C.I.sluice valve (with caps) class I : 200 mm dia	each	5,405.00
1944	C.I.sluice valve (with caps) class I : 250 mm dia	each	8,050.00
1945	C.I.sluice valve (with caps) class I : 300 mm dia	each	9,920.00
1947	Vitreous china flat back wash basin 630x450 mm	each	585.00
1949	Vitreous china angle back wash basin 600x480 mm	each	540.00
1950	Vitreous china angle back wash basin 400x400 mm	each	347.00
1951	C.P. brass waste 32 mm	each	48.00

Code No	Description	Unit	Rate Rs.
1952	C.P. brass waste 40 mm	each	53.00
1953	Vitreous china Indian type w.c. pan size 580 mm	each	290.00
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	700.00
1955	Vitreous china pedestal type water closet	each	554.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	8.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	8.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	12.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	12.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	12.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	13.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	24.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	26.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	30.00
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	796.00
1970	Vitreous china foot rests 250x125x25 mm	pair	80.00
1980	Fly ash	cum	6.00
1984	F.P.S. bricks tile class designation 100	1000 Nos	1,950.00
1986	Modular bricks class designation75	1000 Nos	2,700.00
2391	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	216.00
2392	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	288.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	248.00
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	340.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	282.00
2447	Hollock ballies 125 mm diameter	metre	27.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	27.00
2451	Brass cupboard lock 6 levers (best make of approved quality) 40 mm size	each	36.00
2452	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	43.00
2453	Brass cupboard lock 6 levers (best make of approved quality) 65 mm size	each	55.00
2454	Brass cupboard lock 6 levers (best make of approved quality) 75 mm size	each	70.00

Code No	Description	Unit	Rate Rs.
2455	Brass hanging type door stopper 150 mm	each	46.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	506.00
2459	Anodised Aluminium hanging type door stopper	each	14.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts ,nuts and washers complete	each	34.00
2465	Anodised Aluminium Casement stay 250 mm	each	36.00
2466	Hollock wood in scantling	10 cudm	217.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts, nuts and washers complete	each	130.00
2468	Nickeled Chromium Brass cupboard lock 40 mm size	each	38.00
2469	Nickeled Chromium Brass cupboard lock 50 mm size	each	53.00
2470	Nickeled Chromium Brass cupboard lock 65 mm size	each	64.00
2471	Nickeled Chromium Brass cupboard lock 75 mm size	each	75.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	693.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	550.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	585.00
2500	Extra for selected planks of second class deodar wood	10 cudm	59.00
2504	Kiln seasoning of timber	cum	539.00
2505	Hollock wood in planks	10 cudm	230.00
2602	F.P.S. bricks class designation75	1000 Nos	1,900.00
2603	F.P.S. bricks class designation50	1000 Nos	1,700.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	195.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	105.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	555.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	294.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	575.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	575.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	800.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	800.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	285.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	320.00

Code No	Description	Unit	Rate Rs.
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	700.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	700.00
2914	Solvent	kilogram	18.00
2916	Paving Asphalt 80/100 penetration	tonne	22,500.00
3002	Polyvinyl chloride sheet 400 micron thick	sqm	26.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	28.00
3050	Galvanised steel corrugated sheets	quintal	3,650.00
3080	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	260.00
3084	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	385.00
3088	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	505.00
3092	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	712.00
3096	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1,245.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	810.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	95.00
3229	Vitreous china flat back wash basin 550x400 mm	each	450.00
3300	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2,038.00
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	1,950.00
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	2,465.00
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	3,000.00
3320	C.I.sluice valve (with caps) class II : 200 mm dia	each	5,800.00
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	8,200.00
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	10,250.00
3617	C.P. Brass union 40 mm dia	each	130.00
3620	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	978.00
3621	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia	each	846.00
3624	S.C.I. S&S bends with access door100mm dia	each	225.00
3625	S.C.I. S&S bends with access door75mm dia	each	179.00
3628	S.C.I. S&S bend100mm dia	each	190.00
3629	S.C.I. S&S bend75mm dia	each	143.00
3634	S.C.I. S&S heel rest sanitary bend 100mm dia	each	233.00
3635	S.C.I. S&S heel rest sanitary bend 75mm dia	each	204.00
3640	S.C.I. S&S single equal junctions100x100x100 mm	each	367.00

Code No	Description	Unit	Rate Rs.
3641	S.C.I. S&S single equal junctions75x75x75 mm	each	276.00
3644	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	396.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	294.00
3650	S.C.I. S&S double equal junctions100x100x100x100 mm	each	467.00
3651	S.C.I. S&S double equal junctions75x75x75x75 mm	each	373.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	502.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm.	each	400.00
3660	S.C.I. S&S single unequal junctions100x100x75 mm	each	461.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	523.00
3670	S.C.I. S&S double unequal junctions100x100x75x75 mm	each	639.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	700.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	325.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	247.00
3685	S.C.I. S&S double equal invert branch of required degree100x100x100x100 mm dia	each	414.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	334.00
3690	S.C.I. S&S single unequal invert branch of required degree100x100x75 mm dia	each	422.00
3695	S.C.I. S&S double unequal invert branch of required degree100x100x75x75 mm dia	each	574.00
3699	S.C.I. S&S, 75 mm offset for75 mm dia pipe	each	179.00
3707	S.C.I. S&S, 150 mm offset for75 mm dia pipe	each	223.00
3708	S.C.I. S&S, 150 mm offset for100 mm dia pipe	each	306.00
3712	S.C.I. S&S, 114 mm offset for75 mm dia pipe	each	220.00
3713	S.C.I. S&S, 114 mm offset for100 mm dia pipe	each	289.00
3716	S.C.I. S&S, 152 mm offset for75 mm dia pipe	each	275.00
3717	S.C.I. S&S, 152 mm offset for100 mm dia pipe	each	361.00
3728	S.C.I S&S door pieces 100 mm dia	each	230.00
3729	S.C.I S&S door pieces 75 mm dia	each	176.00
3733	S.C.I S&S, Slotted Cowl (Terminal Guard) 100 mm	each	154.00
3734	S.C.I S&S, Slotted Cowl (Terminal Guard) 75 mm	each	142.00

Code No	Description	Unit	Rate Rs.
3738	S.C.I S&S, collars 100 mm	each	161.00
3739	S.C.I S&S, collars 75 mm	each	115.00
3746	S.C.I. S&S, 76 mm offset for75 mm dia pipe	each	126.00
3747	S.C.I. S&S, 76 mm offset for100 mm dia pipe	each	220.00
3749	Vitreous china toilet paper holder of standard size	each	89.00
3860	560 mm dia cover with frame (Heavy duty)	each	7,634.00
3861	560 mm dia cover without frame (Heavy duty)	each	3,664.00
4006	Pressed steel door frames (mild steel sheet 1.25mm) Profile “B”	metre	170.00
4007	Pressed steel door frames (mild steel sheet 1.25mm) Profile “C”	metre	187.00
4008	Pressed steel door frames (mild steel sheet 1.25mm) Profile “E”	metre	214.00
4009	Mild steel tubes hot finished welded type	kilogram	38.00
4010	Mild steel tubes hot finished seamless type	kilogram	42.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	53.00
4012	Circular C.I. Box for ceiling fan	each	35.00
4013	Pulley 40 mm dia	each	19.00
4014	Ready made steel door with necessary hinges, lugs and glazing clips excluding other fittings & their fixing	sqm	1,406.00
4201	Aluminium primer	litre	63.00
4202	Red oxide Zinc chromate primer	litre	58.00
4203	Copper acetate	kilogram	228.00
4204	Hydrochloric acid	kilogram	27.00
4205	Copper chloride	kilogram	244.00
4206	Copper nitrate	kilogram	173.00
4207	Ammonium chloride	kilogram	12.00
5001	Mobil oil	litre	95.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1,722.00
6007	Pink marble slab plain 18mm thick	sqm	546.00
6010	Udaypur green marble slab plain 18mm thick	sqm	580.00
6019	Black Zebra marble slab plain 18mm thick	sqm	415.00
6501	Sand zone V (Jamuna)	cum	175.00
7001	Brass 100mm mortice latch and lock with6 levers without pair of handles	each	150.00
7003	Pair of Anodised Aluminium lever handles for 100mm mortice latch and lock	each	195.00
7004	Vitreous china flat back wash basin 450x300 mm	each	360.00

Code No	Description	Unit	Rate Rs.
7005	Vitreous china 10 litres low level cistern without fittings	each	824.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1,390.00
7008	F.P.S. clay fly ash bricks class designation 75	1000 Nos	1,412.00
7009	Gypsum board	sqm	140.00
7010	Ceiling sections	metre	36.00
7011	Perimeter channel	metre	23.00
7012	Intermediate channel	metre	38.00
7013	Ceiling angle	metre	16.00
7014	Connecting clips	each	5.00
7015	Soffit cleat	each	3.00
7016	Joint filler	kilogram	19.00
7017	Joint finisher	kilogram	22.00
7018	Joint tape roll	roll	120.00
7019	Dash fastener/ Chemical fastener	each	8.00
7020	All drive screws (for gypsum board)	100 Nos	40.00
7021	Primer (for gypsum board)	litre	76.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	150.00
7023	Chromium plated brackets (curtain rods)	each	5.00
7024	Acid Proof cement	tonne	7,400.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	80.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	142.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	257.00
7034	Nickel plated M.S. pipe 20 mm dia.	metre	54.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	3.00
7036	Nickel plated M.S. Brackets for curtain rod 25 mm	each	4.00
7040	Oxidised mild steel screws 35 mm	100 Nos	28.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	44.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	49.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	576.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	615.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	205.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	228.00
7048	Rawl plug 50 mm (designation 10 no.)	each	7.00

Code No	Description	Unit	Rate Rs.
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	16.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	301.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	35.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	44.00
7060	Hydraulic door closer tubular type Aluminium section body	each	765.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	14.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	12.00
7065	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	11.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	185.00
7070	Chequered precast cement concrete tiles 22mm thick using marble chips of size 6mm - Light shade using white Cement.	sqm	415.00
7071	White marble Raj Nagar plain 20 mm thick (slab area 0.10 sqm to 0.20 sqm)	sqm	415.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	460.00
7087	S.C.I. Tee 150 mm	each	460.00
7090	Expanded polystyrene type N- Normal	sqm	108.00
7091	Expanded polystyrene type - SE	sqm	131.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	4,900.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	4,600.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	4,100.00
7098	Stainless steel kitchen sink - with drain board 510x1040mm bowl depth 178 mm	each	2,600.00
7101	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm	each	2,700.00
7102	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	2,500.00
7103	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	1,600.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1,043.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	865.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1,268.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	380.00

Code No	Description	Unit	Rate Rs.
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	370.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	245.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	280.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	635.00
7116	Hard board 6 mm thick	sqm	151.00
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	16.00
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	21.00
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	20.00
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	22.00
7123	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	632.00
7126	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	858.00
7127	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	1,277.00
7128	S.W. intercepting trap 100 mm dia	each	144.00
7129	S.W. intercepting trap 150 mm dia	each	202.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	628.00
7131	Square shape 350x350 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	540.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	474.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	575.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	575.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	838.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	935.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	1,500.00

Code No	Description	Unit	Rate Rs.
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS: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:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	1,618.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS: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:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	1,572.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1,290.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	1,328.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	1,150.00
7157	Laminated veneer lumber confirming to TADSS IS:1995 manufactured in factory in frames of doors, windows	10 cudm	540.00
7181	C.I. pile shoe	kilogram	40.00
7182	M.S. clamps for pile shoe	kilogram	35.00
7183	Bentonite	tonne	2,700.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	43.00
7187	C.I. grating 150 mm dia. (Weighing not less than 440 gm)	each	16.00
7188	U-PVC pipes (working pressure 4 kg / cm2) Single socketed pipe 75 mm dia.	metre	58.00
7189	U-PVC pipes (working pressure 4 kg / cm2) Single socketed pipe 110 mm dia.	metre	112.00
7190	U-PVC pipes (working pressure 4 kg / cm2) Rubber (Seal) Ring 75 mm dia.	metre	14.00
7191	U-PVC pipes (working pressure 4 kg / cm2) Rubber (Seal) Ring 110 mm dia.	metre	17.00
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	30.00
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	40.00
7194	UPVC pushfit coupler (single) 75 mm thick	each	47.00

Code No	Description	Unit	Rate Rs.
7195	UPVC pushfit coupler (single) 110 mm thick	each	72.00
7196	UPVC single equal Tee (with door) 75x75x75 mm	each	83.00
7197	UPVC single equal Tee (with door) 110x110x110 mm	each	115.00
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	100.00
7199	UPVC single equal Tee (with door) 110x110x110 mm	each	160.00
7208	UPVC bend 87.5o 75 mm bend	each	50.00
7209	UPVC bend 87.5o 110 mm bend	each	85.00
7212	UPVC plain shoe 75 mm bend	each	105.00
7213	UPVC plain shoe 110 mm bend	each	196.00
7214	UPVC pipe clip 75 mm bend	each	15.00
7215	UPVC pipe clip 110 mm bend	each	30.00
7231	Resin Bonded Glass wool 16 kg/m³ 50 mm thick	sqm	114.00
7232	Resin Bonded Glass wool 24 kg/m³ 50 mm thick	sqm	163.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	55.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	193.00
7237	Precast chequered cement tiles 22 mm thick Medium shade using 50% White cement & 50% Ordinary cement	sqm	305.00
7239	Epoxy paint	litre	280.00
7240	Fire retardant paint	litre	318.00
7241	Melamine polish	litre	228.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1,440.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	sqm	1,670.00
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 50MT capacity pile.	per test	19,500.00
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 50MT and up to 100MT.	per test	27,500.00
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 50MT.	per test	37,500.00
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	11,500.00

Code No	Description	Unit	Rate Rs.
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	18,000.00
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	23,000.00
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	11,500.00
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	18,000.00
7254	Hardening Compound	litre	29.00
7255	Road marking paint (spirit based)	litre	97.00
7256	Superior quality road marking paint	litre	148.00
7257	C.P. Brass bibcock 15 mm	each	258.00
7258	C.P. Brass long nose bibcock 15 mm	each	220.00
7259	C.P. Brass long body bibcock 15 mm	each	258.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	258.00
7261	C.P. Brass angle valve 15 mm	each	288.00
7266	Pressed clay tiles	1000 Nos	8,900.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	90.00
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	90.00
7269	25 mm thick particle board	sqm	390.00
7270	30 mm thick prelaminated flush door shutter	sqm	716.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	28.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	708.00
7295	Granite Black marble, 18 mm thick slab, above 0.2 sqm up to 0.5 sqm (areawise)	sqm	1,500.00
7297	Granite Black marble, 18 mm thick slab, above 1.0 sqm up to 2.0 sqm (areawise)	sqm	1,615.00
7306	Aluminium T or L sections	kilogram	195.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	225.00
7309	Paving Asphalt 60/70 penetration	tonne	23,200.00
7312	Expandable fastener with plastic sleeve and M.S. screws. 25 mm long	each	6.00
7313	Expandable fastener with plastic sleeve and M.S. screws. 32 mm long	each	7.00

Code No	Description	Unit	Rate Rs.
7314	Expandable fastener with plastic sleeve and M.S. screws. 40 mm long	each	9.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	11.00
7318	Plasticizer / super plasticizer	kilogram	30.00
7319	Wall form panel 1250x500 mm	each	980.00
7320	Tie bolt 12 mm dia 100 mm length	each	31.00
7321	Tie bolt 12 mm dia 150 mm length	each	42.00
7322	Tie bolt 20 mm dia 150 mm length	each	57.00
7323	Tie bolt 20 mm dia 225 mm length	each	72.00
7324	Spring coil 12 mm	each	10.00
7325	Plastic cone 12 mm dia	each	12.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	280.00
7327	100 mm channel shoulder 2.5 m long	each	1,000.00
7328	Double clip (bridge clip)	each	75.00
7329	Single clip	each	60.00
7330	M.S. tube 40 mm dia	metre	225.00
7331	Wall form panel 1250x450 mm	each	900.00
7332	Corner angle 45x45x5 m 2.50 m long	each	275.00
7333	Column clamp 450x1070 m	each	1,100.00
7334	Prop 2 m (2-3.5m)	each	750.00
7335	Binding wire	kilogram	40.00
7338	Gun metal cramp	kilogram	270.00
7339	Stainless steel cramp	kilogram	280.00
7340	Stainless steel pin .	kg	130.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1,600.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1,000.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	375.00
7345	Prop 4 m	each	1,030.00
7346	Double coupler	each	45.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	23.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	7.00
7349	12 mm M.S. ‘U’ beading	metre	9.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	93.00

Code No	Description	Unit	Rate Rs.
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	570.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	430.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	465.00
7363	15 mm C.P. brass tap with elbow operation lever	each	396.00
7364	White glazed fire clay draining board 600x450x25 mm	each	390.00
7366	Glass reinforced Gyp sum (GRG) board 8.5 mm thick	sqm	190.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	48.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	metre	55.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	352.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	880.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1,070.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	1,530.00
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	1,224.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	533.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	250.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887-1995	tonne	32,000.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	515.00
7386	12 thick particle board ceiling tile	sqm	225.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	30.00
7389	Anodising 15 microns on aluminium sections	kilogram	32.00
7390	Neoprene/EPDM rubber gasket	metre	22.00
7391	Anodising 25 microns on aluminium sections	kilogram	40.00
7392	Powder coating 50 microns on aluminium sections.	kilogram	45.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	50.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1,400.00
7395	6 mm dia. G.I. adjustable hangers including clips (up to 1.2 m length)	each	25.00
7396	Double action hydraulic floor spring with brass cover plate	each	1,550.00
7400	15 mm PTMT bib cock	each	96.00
7401	15 mm PTMT bib cock with flange (fancy)	each	220.00
7402	15 mm PTMT bib cock long body with flange	each	155.00

Code No	Description	Unit	Rate Rs.
7403	15 mm dia PTMT stop cock(male thread)	each	96.00
7405	20 mm dia. PTMT stop cock	each	120.00
7406	PTMT pillar cock	each	150.00
7407	PTMT push cock 15 mm dia.	each	90.00
7408	PTMT push cock 12 mm dia. 20 mm BSP	each	75.00
7409	PTMT grating 100 mm dia.	each	30.00
7411	125 mm grating with waste hole	each	36.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	90.00
7415	Double acting air valve 50 mm	each	3,050.00
7416	Double acting air valve 80 mm	each	4,480.00
7417	Double acting air valve 100 mm	each	5,800.00
7418	Water meter (including testing charges) 80 mm	each	1,800.00
7419	Water meter (including testing charges) 100 mm	each	2,800.00
7420	Water meter (including testing charges) 150 mm	each	4,000.00
7421	Water meter (including testing charges) 200 mm	each	4,500.00
7422	Dirt box strainer 80 mm	each	2,500.00
7423	Dirt box strainer 100 mm	each	3,750.00
7424	Dirt box strainer 150 mm	each	4,850.00
7425	Dirt box strainer 200 mm	each	6,800.00
7426	Cat’s eye	each	450.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	330.00
7428	Water stops Dumb bell with central bulb	metre	306.00
7429	Kickers	metre	325.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	10.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	12.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	23.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	430.00
7442	Wheel 75 mm dia. 40 mm wide	each	52.00
7443	Aluminium single cleat of size 30x32x3	each	10.00
7444	Aluminium grip strip of size 50x12x2	each	7.00
7445	25 mm prelaminated flush door both side decorative	sqm	650.00
7449	Aluminium U beading	kilogram	195.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	160.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick above 0.10 sqm up to 0.20 sqm	sqm	540.00

Code No	Description	Unit	Rate Rs.
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick above 0.20 sqm up to 0.50 sqm	sqm	580.00
7466	Second class deodar teak wood lipping 30 mm widthx12mm	metre	15.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	418.00
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	595.00
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	716.00
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	775.00
7480	Prelaminated 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	625.00
7485 29.00	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)		metre
7486 34.00	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)		metre
7491	PTMT Waste Coupling 31/32MM	Each	45.00
7492	PTMT Waste Coupling 38/40MM	Each	66.00
7493	PTMT Bottle Trap 31/32MM	Each	295.00
7494	PTMT Bottle Trap 38/40MM	Each	320.00
7495	PTMT Ball Cock 15mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	121.00
7496	PTMT Ball Cock 20mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	175.00
7497	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	396.00
7498	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	745.00
7499	PTMT Ball Cock 50mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	1,120.00
7500	PTMT Angle Stop cock with Flange 15mm	Each	120.00
7501	PTMT Swiveling shower 15mm	Each	81.00
7503	PTMT Liquid Soap Container of 400ml capacity	Each	135.00
7504	PTMT Towel Ring 215xd200x37mm	Each	108.00

Code No	Description	Unit	Rate Rs.
7505	PTMT Towel Rail (450MM)	Each	180.00
7506	PTMT Towel Rail (600MM)	Each	210.00
7507	PTMT Shelf 450x124x36mm	Each	245.00
7508	PTMT Urinal Spreader 15MM	Each	120.00
7509	PTMT Soap Dish/Holder 138x102x75mm	Each	108.00
7512	PTMT handle 125x34x24mm	Each	27.00
7513	PTMT handle 150x34x24mm	Each	30.00
7514	PTMT butt hinges 75x60x10mm	Each	36.00
7515	PTMT butt hinges 100x75x10mm	Each	48.00
7516	PTMT Tower bolt 152x42x18mm	Each	60.00
7517	PTMT Tower bolt 202x42x18mm	Each	72.00
7518	PTMT door catcher 72x42mm	Each	24.00
7552	Coir veneered board 4mm thick	sqm	235.00
7553	Coir veneered board 6mm thick	sqm	308.00
7555	Coir veneered board 12mm thick	sqm	548.00
7556	Coir veneered board 18mm thick	sqm	820.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100mm dia	Metre	658.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150mm dia	Metre	978.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200mm dia	Metre	1,348.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250mm dia	Metre	1,743.00
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	Metre	2,238.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	Metre	2,625.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	Metre	3,763.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	Metre	4,175.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	Metre	5,600.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	Metre	6,275.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	Metre	8,538.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	Metre	9,725.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	Metre	10,000.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	Metre	11,663.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	Metre	13,125.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100mm dia	Each	25.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	Each	35.00
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	Each	62.00

Code No	Description	Unit	Rate Rs.
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	Each	68.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300mm dia	Each	98.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350mm dia	Each	123.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400mm dia	Each	248.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450mm dia	Each	275.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500mm dia	Each	285.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600mm dia	Each	348.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700mm dia	Each	550.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750mm dia	Each	648.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800mm dia	Each	725.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900mm dia	Each	968.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000mm dia	Each	1,188.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600mm dia	Quintal	8,938.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600mm dia	Quintal	13,413.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600mm dia	Quintal	9,400.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600mm dia	Quintal	14,239.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	Metre	1,888.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	2,613.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200mm dia	Metre	3,388.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250mm dia	Metre	4,498.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300mm dia	metre	5,788.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	Metre	7,210.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	Metre	8,613.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	Metre	10,413.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	Metre	12,625.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	Metre	17,125.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700mm dia	Metre	21,125.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100mm dia	Metre	624.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125mm dia	metre	763.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150mm dia	metre	901.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	Metre	1,252.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	Metre	1,779.00

Code No	Description	Unit	Rate Rs.
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	Metre	2,366.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	2,918.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	Metre	3,574.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	Metre	4,276.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	Metre	5,211.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600mm dia	Metre	6,884.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300mm dia	Quintal	3,530.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300mm dia	Quintal	3,988.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300mm dia	Quintal	5,338.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300mm dia	Quintal	5,580.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100mm dia	Metre	977.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150mm dia	Metre	1,511.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200mm dia	Metre	2,092.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250mm dia	Metre	2,800.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300mm dia	Metre	3,559.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350mm dia	Metre	4,553.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400mm dia	metre	5,885.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450mm dia	Metre	7,627.00
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500mm dia	metre	9,962.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600mm dia	Metre	12,992.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	Metre	597.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	Metre	870.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	Metre	1,237.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	Metre	1,675.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	Metre	2,369.00

Code No	Description	Unit	Rate Rs.
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	Metre	2,728.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	Metre	3,256.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	Metre	3,861.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	Metre	4,557.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	6,011.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	Metre	7,463.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	Metre	10,405.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	12,798.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	15,505.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885 - 1988	1000 Nos	3,550.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894-1989	1000 Nos	1,792.00
7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139 - 1989	1000 Nos	3,083.00
7739	Modified Bitumen Refinery produced CRMB - 55	Tonne	26,000.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	26,300.00
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	19,500.00
7800	Ceramic Glazed Tiles Ist quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	Sq.m.	268.00
7801	Ceramic Glazed Tiles Ist quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	Sq.m.	320.00
7802	Ceramic Glazed Tiles Ist quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	Sq.m.	347.00
7803	Rectified Ceramic Glazed Tiles Ist quality 300x 300 or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	Sq.m.	462.00
7804	Rectified Ceramic Glazed Tiles Ist quality 300 x 300 or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	Sq.m.	496.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578mm	each	3,350.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355mm	each	1,500.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345mm	each	1,350.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	309.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	334.00
7850	Agaria White marble slab plain 18mm thick	sqm	1000.00
7857	P.T.M.T. Grating square slit 150mm	each	70.00
7858	P.T.M.T. Urinal cock 15mm dia	each	90.00
7859	P.T.M.T. Bib cock with nozzle 15mm	each	110.00
7861	P.T.M.T. Stop cock (concealed) 15mm	each	160.00

Code No	Description	Unit	Rate Rs.
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	27.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	32.00
7864	P.T.M.T. extension nipple 15mm	each	30.00
7865	P.T.M.T. extension nipple 20mm	each	36.00
7866	P.T.M.T. extension nipple 25mm	each	54.00
7900	Modular bricks of class designation 75	1000 Nos	2,050.00
7901	Machine moulded perforated FPS bricks of class designation 125	1000 Nos	3,233.00
7902	Machine moulded modular perforated bricks of class designation 125	1000 Nos	3,200.00
7903	Machine moulded FPS bricks of class designation 125	1000 Nos	2,767.00
7904	Machine moulded tile bricks of class designation 125	1000 Nos	2,717.00
8001	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1,830.00
8002	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1,900.00
8003	Factory made PVC rigid foam paneled shutter i/c carriage	sqm	1,743.00
8004	Factory made PVC rigid foam paneled shutter as per IS : 4020 i/c carriage	sqm	2,148.00
8006	Factory made PVC rigid foam sheet 1mm thick	sqm	145.00
8007	Factory made PVC rigid foam sheet 5mm thick	sqm	558.00
8008	Factory made prelaminated PVC rigid foam sheet 5mm thick	sqm	660.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	112.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	294.00
8012	Adhesive solvent cement	kg	150.00
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	66.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	50.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	85.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	147.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	185.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	221.00
8206	Bitumen primer for bitumen membrane	litre	54.00
8207	Geotextile 120 gsm membrane	sqm	25.00
8210	Stainless steel screws 50 mm	100 Nos	213.00

Code No	Description	Unit	Rate Rs.
8211	Stainless steel screws 40 mm	100 Nos	157.00
8212	Stainless steel screws 30 mm	100 Nos	98.00
8214	Stainless steel screws 20 mm	100 Nos	63.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	200.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	143.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	112.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	90.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	261.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	185.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	155.00
8222	M.S. heavy weight but hinges 125x90x4.0mm IS : 1341 marked.	10 Nos	256.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos.	133.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	67.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	52.00
8300	1216 mm PE-AL-PE Composite pressure pipe	Metre	79.00
8301	1620 mm PE-AL-PE Composite pressure pipe	Metre	97.00
8302	2025 mm PE-AL-PE Composite pressure pipe	Metre	126.00
8303	2532 mm PE-AL-PE Composite pressure pipe	Metre	172.00
8304	3240 mm PE-AL-PE Composite pressure pipe	Metre	227.00
8305	4050 mm PE-AL-PE Composite pressure pipe	Metre	304.00
8501	Polymer modified cementation coating	kilogram	114.00
8502	Fibre glass cloth	sqm	33.00
8504	Multi surface paint	litre	264.00
8505	Acrylic exterior paint	litre	123.00
8506	Premium Acrylic exterior paint	litre	202.00
8507	Textured exterior paint	litre	183.00
8508	Primer for cement paint	litre	52.00
8509	Special Primer (C.W.)	litre	76.00
8510	Metal Primer (U.G.)	litre	91.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	162.00
8612	Perimeter wall angle 21x21 mm (3 metre long)	each	102.00
8613	Intermediate cross channel (1.2 mtrs)	each	62.00

Code No	Description	Unit	Rate Rs.
8614	Intermediate cross channel (1.6 mtrs)	each	29.00
8615	Hanger rod 0.5 mm thick	each	5.00
8616	Adjustment clip	each	4.40
8617	Soffit cleat	each	2.30
8618	Dash fastener 6 mm dia 50 mm long	each	8.00
8620	Vitrified floor tile 50x50 cm	sqm	645.00
8621	Vitrified floor tile 60x60 cm	sqm	700.00
8622	Vitrified floor tile 80x80 cm	sqm	1,076.00
8623	Vitrified floor tile 100x100 cm	sqm	1,290.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 Outer dia	metre	29.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20mm Outer dia.	metre	44.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia.	metre	68.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia.	metre	111.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40mm Outer dia.	metre	176.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50mm Outer dia.	metre	257.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63mm Outer dia.	metre	400.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75mm Outer dia.	metre	575.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90mm Outer dia.	metre	917.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110mm Outer dia.	metre	962.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160mm Outer dia.	metre	2,028.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	45.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	55.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	78.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	105.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	150.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	245.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	783.00

Code No	Description	Unit	Rate Rs.
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia.	metre	1,030.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia.	metre	1,430.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	2,490.00
8646	Silicon sealant.	cartridge	281.00
8647	Stainless steal screws 30mm x4mm.	cent	25.00
8648	Hermetically sealed double glazed unit made with 6mm thick clear float glass both side having 12 mm air gap.	sqm	1,980.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay. 205 x 19mm	each	145.60
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19mm	each	161.20
8651	Stainless steel (SS 304 grade) adjustable friction window stay. 355 x 19mm	each	208.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x 19mm	each	390.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay. 710 x 19mm	each	715.00
8654	Masking tape.	metre	1.40
8655	Autoclaved aerated cement (AAC) blocks.	cum	1,650.00
8656	Gypsum panel 666 X 500 X 100 mm size.	sqm	544.00
8657	Bonding plaster for Gypsum panel.	kg	50.00
8658	Mechanised Autoclaved fly ash lime bricks.	1000 Nos	2,200.00
8659	Water proof ply 12mm thick.	sqm	572.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	30.00
8661	Aluminium casement window fastener (powder coated).	each	33.00
8662	Aluminium casement window fastener (polyester powder coated).	each	35.00
8663	Aluminium round shape handle (anodised AC 15)	each	37.00
8664	Aluminium round shape handle (powder coated)	each	41.00
8665	Aluminium round shape handle (polyester powder coated).	each	43.00
8666	Stainless steel screws 25mm x4mm	cent	21.00
8667	UV stabilised 2 mm thick plain FRP sheet .	sqm	400.00
8668	UV stabilised 2 mm thick corrugated FRP sheet .	sqm	474.00
8669	Mangalore ridge tiles 20mm thick.	each	25.00
8670	Mangalore tiles 20mm thick.	each	9.50
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	325.00
8672	Precoated galvanised steel plain ridges.	metre	330.00

Code No	Description	Unit	Rate Rs.
8673	Precoated galvanised steel flashings/aprons.	metre	330.00
8674	Precoated galvanised steel gutter	metre	360.00
8675	Precoated galvanised steel north light curves.	metre	360.00
8676	Precoated galvanised steel barge board.	metre	330.00
8677	Precoated galvanised steel crimp curve	sqm	420.00
8678	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	30.00
8683	Red sand stone gang saw cut 30mm thick.	sqm	325.00
8684	White sand stone gang saw cut 30mm thick.	sqm	360.00
8685	Delineator	each	560.00
8686	Precast C.C. Kerb stone M - 25	cum	3,500.00
8687	Thermoplastic paint	kg	67.22
8688	Glass beads	kg	68.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	225.00
8690	High intensity retro - reflective sheet.	sqm	1,400.00
8691	Punched tape concertina coil 600 m dia. 10m openable length (Total length 90m)	bundle	650.00
8692	RBT reinforced barbed wire.	metre	7.50
8693	Turn buckle and strengthening bolt.	each set	35.00
8694	Precast pavement slab 450 x 450 x 50mm (M - 30).	each	40.00
8695	Chain link fabric fencing mesh of size 50x50mm made of G.I. wire of dia. 4mm.	sqm	225.00
8696	Chain link fabric fencing mesh of size 50x50mm made of G.I. wire of dia. 4mm, PVC coated to outer dia. 5mm.	sqm	250.00
8697	Chain link fabric fencing mesh of size 25x25mm made of G.I. wire of dia. 3mm.	sqm	300.00
8698	Stainless steel cramps with nuts, bolts and washer for dry stone cladding .	each	200.00
8699	8 mm thick tapered edge calcium silicate board .	sqm	194.00
8700	10 mm thick calcium silicate board.	sqm	323.00
8703	Telescopic drawer channels 300mm long .	set	92.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter .	each	5.00
8705	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	117.00
8706	25mm thick factory made PVC flush door shutter i/c carriage.	sqm	1,975.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	333.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	1580.00

Code No	Description	Unit	Rate Rs.
8710	Factory made solid PVC door frame 60 x 30mm i/c carriage.	metre	223.00
8711	28mm factory made solid PVC panel door shutter i/c carriage.	sqm	1,975.00
8713	Fiber glass reinforced plastic chajja.	sqm	3,520.00
8714	Magnetic catcher triple strip vertical type.	each	13.50
8715	Magnetic catcher double strip horizontal type.	each	10.00
8716	100 mm mortice lock with 6 levers for aluminium door.	each	152.50
8717	12.5 mm thick Glass fibre reinforced Gypsum board .	sqm	130.00
8719	2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5mm	metre	19.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	34.00
8721	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	20.00
8722	Nylon sleeves & wooden screws (40mm)	each	1.50
8723	Counter sunk ribbed head screw 25mm.	cent	60.00
8724	12mm thick marine plywood conforming to IS:710	sqm	740.00
8725	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	690.00
8726	1.5mm thick decorative laminated sheet	sqm	405.00
8727	1.0mm thick decorative laminated sheet	sqm	330.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	1,960.00
8731	High polymer modified quickset tile adhesive.	per kg	13.75
9999	Sundries	L.S.	1.00

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 Rs.
2200	Steam coal	tonne	60.81
2201	Bricks	1000 Nos	141.88
2202	Stone aggregate below 40 mm nominal size	cum	53.21
2203	Coarse sand	cum	53.21
2204	Timber	cum	60.81
2205	Steel	tonne	47.29
2206	Stone aggregate 40 mm nominal size and above	cum	57.83
2207	Brick tiles	1000 Nos	85.13
2208	Lime	cum	53.21
2209	Cement	tonne	47.29
2211	Tar bitumen	tonne	53.21
2215	Soling stone & masonry stone	cum	62.60
2216	Stone blocks white & red sand stone & kota stone slab	tonne	47.29
2224	S.W. pipes100 mm dia	100 metre	70.94
2225	S.W. pipes150 mm dia	100 metre	141.88
2226	S.W. pipes200 mm dia	100 metre	236.47
2227	S.W. pipes230 mm dia	100 metre	337.82
2228	S.W. pipes250 mm dia	100 metre	405.38
2229	S.W. pipes300 mm dia	100 metre	506.73
2241	Good earth	cum	66.51
2242	Dump manure	cum	57.83
2260	Brick aggregate	cum	57.83
2261	Fine sand (1 part badarpur sand : 2 parts jamuna sand)	cum	53.21
2262	Fly ash	cum	53.21
2264	Rubbish	cum	53.21
2265	Moorum	cum	53.21
2266	Surkhi	cum	53.21

Code No	Description	Unit	Rate Rs.
2267	Stone dust	cum	53.21
2268	Marble dust and marble chips	cum	53.21
2271	G.I. pipes below 100 mm dia	tonne	47.29
2273	A.C.sheet and accessories	tonne	47.29
2275	R.C.C. pipes 100 mm dia	100 metre	116.30
2281	R.C.C. pipes 150 mm dia	100 metre	193.83
2287	R.C.C. pipes 250 mm dia	100 metre	448.05
2290	R.C.C. pipes 300 mm dia	100 metre	553.80
2299	R.C.C. pipes 450 & 500 mm dia	100 metre	1,292.20
2302	G.I.sheet and accessories	tonne	47.29
2303	R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	1,938.30
2308	Plaster of paris	tonne	47.29
2309	Cast iron fittings	tonne	47.29
2311	Red bajri	cum	53.21
2314	Barbed wire	tonne	47.29
2317	Sludge	cum	57.83
2319	Spun iron S & S pipes 100 mm dia	100 metre	116.30
2320	Spun iron S & S pipes 125 mm dia	100 metre	155.35
2321	Spun iron S & S pipes 150 mm dia	100 metre	193.83
2322	Spun iron S & S pipes 200 mm dia	100 metre	315.30
2323	Spun iron S & S pipes 250 mm dia	100 metre	448.05
2324	Spun iron S & S pipes 300 mm dia	100 metre	553.80
2325	Spun iron S & S pipes 350 mm dia	100 metre	775.32
2326	Spun iron S & S pipes 400 mm dia	100 metre	1,057.26
2327	Spun iron S & S pipes 450 mm dia	100 metre	1,292.20
2328	Spun iron S & S pipes 500 mm dia	100 metre	1,292.20
2329	Spun iron S & S pipes 600mm dia	100 metre	1,938.30
2330	C.I. pipes 500 mm dia	100 metre	1,292.20
2331	R.C.C. pipes 900 mm dia	100 metre	2,907.45
2332	R.C.C. pipes 1000 mm dia	100 metre	3,876.61
2333	R.C.C. pipes 1100 mm dia	100 metre	3,876.61
2334	R.C.C. pipes 1200 mm dia	100 metre	3,876.61

Code No	Description	Unit	Rate Rs.
2335	Jamuna sand	cum	53.21
2341	Pig lead	tonne	47.29
2342	Solvent/ Diesel.	quintal	5.32
2343	Ductile iron pipes (k7) 100 mm dia	100 metre	116.30
2344	Cast iron pipes 150 mm dia	100 metre	193.83
2345	Cast iron pipes 200 mm dia	100 metre	315.30
2346	Cast iron pipes 250 mm dia	100 metre	448.05
2347	Cast iron pipes 300 mm dia	100 metre	553.80
2348	Cast iron pipes 350 mm dia	100 metre	775.32
2349	Cast iron pipes 400 mm dia	100 metre	1,057.26
2350	Cast iron pipes 450 mm dia	100 metre	1,292.20
2351	Cast iron pipes 500 mm dia	100 metre	1,292.20
2352	Cast iron pipes 600 mm dia	100 metre	1,938.30
2353	Cast iron pipes 700 mm dia	100 metre	1,938.30
2355	Cast iron pipes 800 mm dia	100 metre	1,938.30
2356	Cast iron pipes 900 mm dia	100 metre	2,907.45
2357	Cast iron pipes 1000 mm dia	100 metre	3,876.61

SUB HEAD : 1.0

CARRIAGE OF MATERIALS

1.0 Carriage of Materials

Data Sheet No 1 for Analysis of Rates

1.1 By Mechanical Transport including loading, unloading and stacking:

Code	Material Name	Unit	Rate
0005	Hire Charges of truck	Day	1008.00
0114	Beldar	Day	135.25
0115	Coolie	Day	135.25
1235	High Speed Diesel	Litre	30.25
5001	Mobil Oil	Litre	95.00

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) @ Rs per Litre	Litres of Mobil oil consumed @ 140 km per Litre	Cost of Mobil oil (5001) @ Rs per Litre	Cost of 6 Beldars (0114) @ Rs per Day	Hire charges of truck (0005) @ Rs per Day	Total Cost= 6+8+9+10	Cost per Trip = col. 11/ col. 3	Increase in cost per km over previous km	Average cost per additional km after first 5,10 and 20 km
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	122.21	0.144	13.68	811.50	1008.00	1955.39	275.02		
2 Km	17.00 Km	6.48	31.92	6.38	193.00	0.228	21.66	811.50	1008.00	2034.16	313.91		
3 Km	17.50 Km	5.96	41.76	8.35	252.59	0.298	28.31	811.50	1008.00	2100.40	352.42		
4 Km	18.00 Km	5.54	50.32	10.06	304.32	0.359	34.11	811.50	1008.00	2157.93	389.52		
5 Km	18.50 Km	5.19	57.90	11.58	350.30	0.414	39.33	811.50	1008.00	2209.13	425.65		
6 Km	19.00 Km	4.90	64.80	12.96	392.04	0.463	43.99	811.50	1008.00	2255.53	460.31	34.66	
7 Km	19.50 Km	4.66	71.24	14.25	431.06	0.509	48.36	811.50	1008.00	2298.92	493.33	33.02	
8 Km	20.00 Km	4.44	77.04	15.41	466.15	0.550	52.25	811.50	1008.00	2337.90	526.55	33.22	32.51
9 Km	20.50 Km	4.26	82.68	16.54	500.34	0.591	56.15	811.50	1008.00	2375.99	557.74	31.19	
10Km	21.00 Km	4.10	88.00	17.60	532.40	0.629	59.76	811.50	1008.00	2411.66	588.21	30.47	
11Km	21.50 Km	3.95	92.90	18.58	562.05	0.664	63.08	811.50	1008.00	2444.63	618.89	30.68	
12Km	22.00 Km	3.83	97.92	19.58	592.30	0.699	66.41	811.50	1008.00	2478.21	647.05	28.16	
13Km	22.50 Km	3.71	102.46	20.49	619.82	0.732	69.54	811.50	1008.00	2508.86	676.24	29.19	
14Km	23.00 Km	3.61	107.08	21.42	647.96	0.765	72.68	811.50	1008.00	2540.14	703.64	27.40	
15Km	23.50 Km	3.51	111.30	22.26	673.37	0.795	75.53	811.50	1008.00	2568.40	731.74	28.10	
16Km	24.00 Km	3.43	115.76	23.15	700.29	0.827	78.57	811.50	1008.00	2598.36	757.54	25.80	
17Km	24.50 Km	3.35	119.90	23.98	725.40	0.856	81.32	811.50	1008.00	2626.22	783.95	26.41	27.14
18Km	25.00 Km	3.28	124.08	24.82	750.81	0.886	84.17	811.50	1008.00	2654.48	809.29	25.35	
19Km	25.50 Km	3.21	127.98	25.60	774.40	0.914	86.83	811.50	1008.00	2680.73	835.12	25.83	
20Km	26.00 Km	3.15	132.00	26.40	798.60	0.943	89.59	811.50	1008.00	2707.69	859.58	24.47	

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	821.59	0.970	92.14	811.50	1008.00	2733.23	884.54	24 96	
22 Km	27.00 Km	3.04	139.76	27.95	845.49	0.998	94.81	811.50	1008.00	2759.80	907.83	23. 29	
23 Km	27.50 Km	2.99	143.54	28.71	868.48	1.025	97.38	811.50	1008.00	2785.36	931.56	23 73	
24 Km	28.00 Km	2.95	147.60	29.52	892.98	1.054	100.13	811.50	1008.00	2812.61	953.43	21. 87	
25 Km	28.50 Km	2.90	151.00	30.20	913.55	1.079	102.51	811.50	1008.00	2835.56	977.78	24 35	
26 Km	29.00 Km	2.86	154.72	30.94	935.94	1.105	104.98	811.50	1008.00	2860.42	1000.15	22 37	22.54
27 Km	29.50 Km	2.83	158.82	31.76	960.74	1.134	107.73	811.50	1008.00	2887.97	1020.48	20. 34	
28 Km	30.00 Km	2.79	162.24	32.45	981.61	1.159	110.11	811.50	1008.00	2911.22	1043.45	22. 96	
29 Km	30.50 Km	2.76	166.08	33.22	1004.91	1.186	112.67	811.50	1008.00	2937.08	1064.16	20. 71	
30 Km	31.00 Km	2.73	169.80	33.96	1027.29	1.213	115.24	811.50	1008.00	2962.03	1084.99	20. 83	

Notes

1. Number of trips in working day of 8 hours $N = \frac{8}{\frac{2L}{s} + 1}$ where L= Load 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 disel @ (12 35) per litre
   (ii) Cost of moble 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

S.No	Material	capacity per Trip	Net Qty Payable after deduction for loose-ness	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 As per Col. 14 of Data Sheet A B C Net Qty Payable			Remarks
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%	39.53	45.13	55.99	50.66	61.19	4.67	3.90	3.24	
1.1.2	Earth	8	6.4	cum	15%	49.42	56.41	69.99	63.32	76.48	5.84	4.88	4.05	
1.1.3	Manure or sludge	8	7.36	cum	15%	42.97	49.05	60.86	55.07	66.51	5.08	4.24	3.52	
1.1.4	Excavated rock	8	4	cum	15%	79.07	90.25	111.99	101.32	122.37	9.35	7.80	6.48	
1.1.5	Sand, stone aggregate below 40 mm nominal size	8	8	cum	15%	39.53	45.13	55.99	50.66	61.19	4.67	3.90	3.24	
1.1.6	Stone aggregate 40 mm nominal size and above	8	7.36	cum	15%	42.97	49.05	60.86	55.07	66.51	5.08	4.24	3.52	
1.1.7	Soling stone	8	6.8	cum	15%	46.51	53.09	65.87	59.60	71.99	5.50	4.59	3.81	
1.1.8	Bricks	3000	3000	1000 Nos	15%	105.42	120.33	149.32	135.09	163.17	12.46	10.40	8.64	
1.1.9	Brick Tiles	5000	5000	1000 Nos	15%	63.25	72.20	89.59	81.06	97.90	7.48	6.24	5.18	
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%	35.14	40.11	49.77	45.03	54.39	4.15	3.47	2.88	
1.1.11	Steel	9	9	tonne	15%	35.14	40.11	49.77	45.03	54.39	4.15	3.47	2.88	
1.1.12	Timber	7	7	cum	15%	45.18	51.57	63.99	57.90	69.93	5.34	4.46	3.70	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1.13	Tar bitumen	8	8	tonne	15%	39.53	45.13	50.66	55.99	61.19	4.67	3.90	3.24	
1.1.14	Solvent	80	80	qtl	15%	3.95	4.51	5.07	5.60	6.12	0.47	0.39	0.32	
1.1.15	Steam coal	7	7	tonne	15%	45.18	51.57	57.90	63.99	69.93	5.34	4.46	3.70	
1.1.16	S.W. pipe													
1.1.16.1	100 mm dia	600	600	100 m	15%	52.71	60.17	67.55	74.66	81.58	6.23	5.20	4.32	
1.1.16.2	150 mm dia	300	300	100 m	15%	105.42	120.33	135.09	149.32	163.17	12.46	10.40	8.64	
1.1.16.3	200 mm dia	180	180	100 m	15%	175.71	200.56	225.15	248.86	271.94	20.77	17.34	14.40	
1.1.16.4	230 mm dia	126	126	100 m	15%	251.01	286.51	321.65	355.51	388.49	29.67	24.77	20.57	
1.1.16.5	250 mm dia	105	105	100 m	15%	301.21	343.81	385.98	426.62	466.19	35.61	29.72	24.69	
1.1.16.6	300 mm dia	84	84	100 m	15%	376.52	429.76	482.47	533.27	582.74	44.51	37.15	30.86	
1.1.16.7	350 mm dia	60	60	100 m	15%	527.12	601.67	675.46	746.58	815.83	62.31	52.01	43.20	
1.1.16.8	400 mm dia	42	42	100 m	15%	753.03	859.53	964.95	1066.54	1165.47	89.02	74.30	61.72	
1.1.16.9	450 mm dia	33	33	100 m	15%	958.40	1093.94	1228.12	1357.41	1483.33	113.30	94.57	78.55	
1.1.16.10	500 mm dia	30	30	100 m	15%	1054.24	1203.34	1350.93	1493.15	1631.66	124.63	104.03	86.41	
1.1.16.11	600 mm dia	24	24	100 m	15%	1317.80	1504.17	1688.66	1866.44	2039.58	155.79	130.03	108.01	
1.1.17	R.C.C. pipes, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes													
1.1.17.1	100 mm dia	366	366	100 m	15%	86.41	98.63	110.73	122.39	133.74	10.22	8.53	7.08	
1.1.17.2	125 mm dia	274	274	100 m	15%	115.43	131.75	147.91	163.48	178.65	13.65	11.39	9.46	
1.1.17.3	150 mm dia	219.6	219.6	100 m	15%	144.02	164.39	184.55	203.98	222.90	17.03	14.21	11.80	
1.1.17.4	200 mm dia	135	135	100 m	15%	234.28	267.41	300.21	331.81	362.59	27.70	23.12	19.20	
1.1.17.5	250 mm dia	95	95	100 m	15%	332.92	380.00	426.61	471.52	515.26	39.36	32.85	27.29	
1.1.17.6	300 mm dia	76.86	76.86	100 m	15%	411.49	469.69	527.29	582.81	636.87	48.64	40.60	33.73	
1.1.17.7	350 mm dia	54.9	54.9	100 m	15%	576.09	657.56	738.21	815.93	891.62	68.10	56.85	47.22	
1.1.17.8	400 mm dia	40.26	40.26	100 m	15%	785.58	896.67	1006.65	1112.63	1215.84	92.87	77.52	64.39	
1.1.17.9	450 mm & 500 mm dia	32.94	32.94	100 m	15%	960.15	1095.93	1230.35	1359.88	1486.03	113.50	94.74	78.69	
1.1.17.10	600, 700, 750 & 800 mm	21.96	21.96	100 m	15%	1440.22	1643.90	1845.53	2039.83	2229.05	170.26	142.11	118.04	
1.1.17.11	900 mm dia	14.64	14.64	100 m	15%	2160.33	2465.85	2768.30	3059.74	3343.57	255.39	213.17	177.06	
1.1.17.12	1000, 1100 & 1200 mm dia	10.98	10.98	100 m	15%	2880.44	3287.80	3691.06	4079.65	4458.10	340.51	284.23	236.08	

1.0 Carriage of Materials

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.5 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate
0114	Beldar	Day	135.25
0115	Coolie	Day	135.25

The following labour work for 8 hours a day will carry following material upto 1st 50 m as given below :
0114/0115 Beldars (Male/ Female) 7 .67 Nos @ Rs 135.25 1037.37 (X)

1 Lime, mooram, earth, building rubbish etc. 35 cum
2 Sand, ballast and boulders 28 cum
3 Bricks 15000 nos
4 Brick Tiles, Allabad roofing 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 M
0115 Coolie 1.67 Nos @ Rs 135.25 225.87 (Y)

Lead in Metres	Cost per 8 hours day	Increase in cost for every additional 50 metre or part thereof
	(X)	(Y)
50 metres	1037.37	225.87

S. No	Material	Capacity per Trip	Net Qty to be paid 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 (X)	cost for addl. 50 m or part thereof beyond 1st 50 m upto 0.5 km (Y)
1	2	3	4	5	6	7	8	9
1.2.1	Lime, mooram building rubbish	35 cum	35 cum	1 cum	15%	1192.97	34.08	7.42
1.2.2	Earth	35 cum	28 cum	1 cum	15%	1192.97	42.61	9.28
1.2.3	Manure or sludge	35 cum	32.2 cum	1 cum	15%	1192.97	37.05	8.07
1.2.4	Excavated rock	35 cum	17.5 cum	1 cum	15%	1192.97	68.17	14.84
1.2.5	Sand, stone aggregate below 40 mm nominal size	28 cum	28 cum	1 cum	15%	1192.97	42.61	9.28
1.2.6	Stone aggregate 40 mm nominal size and above	28 cum	25.9 cum	1 cum	15%	1192.97	46.06	10.03
1.2.7	Soling stone	28 cum	23.8 cum	1 cum	15%	1192.97	50.12	10.91
1.2.8	Bricks	15000 Nos	15000 Nos	1000 Nos	15%	1192.97	79.53	17.32
1.2.9	Brick Tiles, Allahabad roofing tiles (Flat or round)	24000 Nos	24000 Nos	1000 Nos	15%	1192.97	49.71	10.82
1.2.10	Steam coal	30 tonne	30 tonne	1 tonne	15%	1192.97	39.77	8.66

1.0 Carriage of Materials

1.2 Carraige of material by Manual Labour including loading, unloading and stacking for lead less then 0.5 KM.

Data Sheet for Analysis of Rates

Code	Material Name	Unit	Rate
0114	Beldar	Day	135.25
0115	Coolie	Day	135.25

The following labour works for 8 hours a day and will carry following material as given below:

0114 Beldars 9.2 Nos @ 135.25 = 1244.30 (X)

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

Notes: 1.35 extra Beldar will be required for every additional lead of 50 m 1.35 Beldar @ 135.25 = 182.59 (Y)

S. No	Material	Capacity per Trip	Net Qty to be paid after deduction for looseness	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 beyond 1st 50 m upto 0.5 km
1	2	3	4	5	6	7	8	9
1.2.11	Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	46 t	46 t	1 tonne	15%	1430.95	31.11	4.56
1.2.12	Cement	57.99 t	57.99 t	1 cum	15%	1430.95	24.68	3.62
1.2.13	Steel	27 t	27 t	1 tonne	15%	1430.95	53.00	7.78
1.2.14	Timber	42 cum	42 cum	1 cum	15%	1430.95	34.07	5.00
1.2.15	Tar bitumen etc	46 t	46 t	1 tonne	15%	1430.95	31.11	4.56
1.2.16	S.W. pipe							
1.2.16.1	100 mm dia	2298 m	2298 m	100 m	15%	1430.95	62.27	9.14
1.2.16.2	150 mm dia	1398 m	1398 m	100 m	15%	1430.95	102.36	15.02
1.2.16.3	200 mm dia	999 m	999 m	100 m	15%	1430.95	143.24	21.02
1.2.16.4	230 mm dia	780 m	780 m	100 m	15%	1430.95	183.45	26.92
1.2.16.5	250 mm dia	600 m	600 m	100 m	15%	1430.95	238.49	35.00
1.2.16.6	300 mm dia	420 m	420 m	100 m	15%	1430.95	340.70	49.99
1.2.16.7	350 mm dia	300 m	300 m	100 m	15%	1430.95	476.98	69.99
1.2.16.8	400 mm dia	240 m	240 m	100 m	15%	1430.95	596.23	87.49
1.2.16.9	450 mm dia	198 m	198 m	100 m	15%	1430.95	722.70	106.05
1.2.16.10	500 mm dia	162 m	162 m	100 m	15%	1430.95	883.30	129.61
1.2.16.11	600 mm dia	132 m	132 m	100 m	15%	1430.95	1084.05	159.07
1.2.17	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unrein-forced cement pipes							
1.2.17.1	100 mm dia	1702 m	1702 m	100 m	15%	1430.95	84.07	12.34
1.2.17.2	125 mm dia	1391 m	1391 m	100 m	15%	1430.95	102.87	15.10
1.2.17.3	150 mm dia	1208 m	1208 m	100 m	15%	1430.95	118.46	17.38
1.2.17.4	200 mm dia	805 m	805 m	100 m	15%	1430.95	177.76	26.08

1	2	3	4	5	6	7	8	9
1.2.17.5	250 mm dia	458 m	458 m	100 m	15%	1430.95	312.43	45.85
1.2.17.6	300 mm dia	366 m	366 m	100 m	15%	1430.95	390.97	57.37
1.2.17.7	350 mm dia	256 m	256 m	100 m	15%	1430.95	558.96	82.02
1.2.17.8	400 mm dia	220 m	220 m	100 m	15%	1430.95	650.43	95.44
1.2.17.9	450 mm dia & 500 mm dia	165 m	165 m	100 m	15%	1430.95	867.24	127.26
1.2.17.10	600, 700, 750 & 800 mm dia	150 m	150 m	100 m	15%	1430.95	953.96	139.98
1.2.18	Asbestors cement pipes							
1.2.18.1	50 mm dia	10064 m	10064 m	100 m	15%	1430.95	14.22	2.09
1.2.18.2	80 mm dia	3660 m	3660 m	100 m	15%	1430.95	39.10	5.74
1.2.18.3	100 mm dia	2562 m	2562 m	100 m	15%	1430.95	55.85	8.20
1.2.18.4	150 mm dia	1830 m	1830 m	100 m	15%	1430.95	78.19	11.47

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 upto 50 m and lift upto 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 15cm.				
	Labour-				
0114	Beldars	Day	7.20	135.25	973.80
0115	Coolies	Day	6.00	135.25	811.50
	TOTAL				1 785.30
	Add I % for water charges				17.85
	TOTAL				1 803.15
	Add 15% for contractor's profit and overheads				270.47
	Cost of 100 sqm.				2 073.62
	Say				2 073.60

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 upto 50 m and lift upto 1.5 m :

2.2.1 All kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	Labour-				
0114	Beldars	Day	5.90	135.25	797.98
0115	Coolies	Day	3.60	135.25	486.90
0101	Bhishti	Day	0.40	138.45	55.38
0113	Chokidar	Day	0.008	135.25	1.08
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire Charges	Day	0.008	1000.00	8.00
1,235	Diesel	litre	0.144	30.25	4.36
2,342	Carriage of diesel	quintal	0.0014	5.32	0.01
9,999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				1 356.44
	Add 1 % for water charges				13.56
	TOTAL				1 370.00
	Add 15% for contractor's profit and overheads				205.50
	Cost of 10 cum.				1 575.50
	Cost of 1 cum.				157.55
	Say				157.55

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 upto 50 m and lift upto 1.5 m.

2.3.1 All kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Detais of cost for 10 cum.				
	Labour-				
0114	Beldars	Day	2.20	135.25	297.55
0115	Coolies	Day	3.60	135.5	486.90
0101	Bhishti	Day	0.40	138.45	55.38
	Roller charges (one roller does 1850 sqm of consolidation per day)				
0003	Hire Charges	Day	0.008	1000.00	8.00
0113	Chokidar	Day	0.008	135.25	1.08
1,235	Diesel	litre	0.144	30.25	4.36
2,342	Carriage of diesel	quintal	0.0014	5.32	0.01
9,999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				856.01
	Add 1% for water charges				8.56
	TOTAL				864.57
	Add 15% for contractor's profit and overheads				129.69
	Cost of 10 cum.				994.26
	Cost of 1 cum.				99.43
	Say				99.45

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	Chokidar	Day	0.008	135.25	1.08
0003	Roller charges & Hire Charges	Day	0.008	1000.00	8.00
1,235	Diesel	litre	0.144	30.25	4.36
2,342	Carriage of diesel	quintal	0.0014	5.32	0.01
9,999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				15.27
	Add 1 % for water charges				0.15
	TOTAL				15.42
	Add 15% for contractor's profit and overheads				2.31
	Cost of 10 cum.				17.73
	Cost of 1 cum.				1.77
	Say				1.75

2.5 Deduct for not watering the excavated earth for banking

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	Labour-				
0101	Bhishti	Day	0.4O	138.45	55.38
	TOTAL				55.38
	Add 1% for water charges				0.55
	TOTAL				55.93
	Add 15% for contractor's profit and overheads				8.39
	Cost of 10 cum.				64.32
	Cost of 1 cum.				6.43
	Say				6.45

2.6 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, 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	6000.00	247.50
0018	Hire and running charges of loader.	Day	0.04125	800.00	33.00
	Labour-				
0128	Mate	Day	0.40	138.45	55.38
0115	Beldar/Coolies	Day	4.00	135.25	541.00
	TOTAL				876.88
	Add 1 % for water charges				8.77
	TOTAL				885.65
	Add 15% for contractor's profit and overheads				132.85
	Cost of 10 cum.				1018.50
	Cost of 1 cum.				101.85
	Say				101.85

2.7 Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 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	6 000.00	375.00
0017	Hire and running charges of tipper	Day	0.0625	1 030.00	64.38
0132	Excavators	Day	0.705	135.25	95.35
0133	Breakers	Day	1.59	135.25	215.05
0134	Hole driller	Day	0.355	135.25	48.01

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldars	Day	1.415	135.25	191.38
0115	Coolies	Day	2.32	135.25	313.78
9,999	Sundries	L.S.	10.79	1.00	10.79
	TOTAL				1 313.74
	Add 1% for water charges				13.14
	TOTAL				1 326.88
	Add 15% for contractor's profit and overheads				199.03
	Cost of 10 cum.				1 525.91
	Cost of 1 cum.				152.59
	Say				152.60

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

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	6 000.00	750.00
0017	Hire and running charges of tipper	Day	0.125	1 030.00	128.75
0132	Excavators	Day	1.06	135.25	143.36
0133	Breakers	Day	2.825	135.25	382.08
0134	Hole driller	Day	0.885	135.25	119.70
0114	Beldars	Day	1.325	135.25	179.21
0115	Coolies	Day	2.32	135.25	313.78
0325	Powder	kilogram	3.93	25.00	98.25
0326	Fuse	each	4.00	10.00	40.00
9,999	Sundries	L.S.	16.12	1.00	16.12
	TOTAL				2 171.25
	Add 1 % for water charges				21.71
	TOTAL				2 192.96
	Add 15% for contractor's profit and overheads				328.94
	Cost of 10 cum.				2 521.90
	Cost of 1 cum.				252.19
	Say				252.20

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 upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.

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	6 000.00	750.00
0017	Hire and running charges of tipper	Day	0.125	1 030.00	128.75
0132	Excavators	Day	2.47	135.25	334.07
0133	Breakers	Day	6.00	135.25	811.50

Code	Description	Unit	Quantity	Rate	Amount
0135	Chisellers	Day	1.06	138.45	146.76
0103	Black smith II class	Day	0.175	141.60	24.78
0114	Beldars	Day	1.50	135.25	202.88
0115	Coolies	Day	2.85	135.25	385.46
9,999	Sundries	L.S.	16.12	1.00	16.12
	TOTAL				2 800.32
	Add 1% for water charges				28.00
	TOTAL				2 828.32
	Add 15% for contractor's profit and overheads				424.25
	Cost of 10 cum.				3 252.57
	Cost of 1 cum.				325.26
	Say				325.25

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 upto 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	6 000.00	247.50
0018	Hire and running charges of loader.	Day	0.04125	800.00	33.00
	Labour-				
0128	Mate	Day	0.40	138.45	55.38
0115	Beldars/Coolies	Day	4.10	135.25	554.52
	TOTAL				890.40
	Add 1% for water charges				8.90
	TOTAL				899.30
	Add 15% for contractor's profit and overheads				134.90
	Cost of 10 cum.				1034.20
	Cost of 1 cum.				103.42
	Say				103.40

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 upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.

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	6 000.00	375.00
0017	Hire and running charges of tipper	Day	0.0625	1 030.00	64.38
	Labour-				
0132	Excavators	Day	0.885	135.25	119.70
0133	Breakers	Day	1.765	135.25	238.72
0134	Hole driller	Day	0.53	135.25	71.68

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldars	Day	1.415	135.25	191.38
0115	Coolies	Day	2.41	135.25	325.95
9,999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				1 400.33
	Add 1 % for water charges				14.00
	TOTAL				1 414.33
	Add 15% for contractor's profit and overheads				212.15
	Cost of 10 cum.				1 626.48
	Cost of 1 cum.				162.65
	Say				162.65

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 upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.

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	6 000.00	750.00
0017	Hire and running charges of tipper	Day	0.125	1 030.00	128.75
	Labour-				
0132	Excavators	Day	1.24	135.25	167.71
0133	Breakers	Day	3.00	135.25	405.75
0134	Hole driller	Day	1.06	135.25	143.36
0114	Beldars	Day	1.325	135.25	179.21
0115	Coolies	Day	2.41	135.25	325.95
0325	Powder	kilogram	6.42	25.00	160.50
0326	Fuse	each	7.00	10.00	70.00
9,999	Sundries	L.S.	18.85	1.00	18.85
	TOTAL				2 350.08
	Add 1 % for water charges				23.50
	TOTAL				2 373.58
	Add 15% for contractor's profit and overheads				356.04
	Cost of 10 cum.				2 729.62
	Cost of 1 cum.				272.96
	Say				272.95

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 upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.

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	6 000.00	750.00
0017	Hire and running charges of tipper	Day	0.125	1 030.00	128.75
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0132	Excavators	Day	2.65	135.25	358.41
0133	Breakers	Day	6.175	135.25	835.17
0135	Chisellers	Day	1.06	138.45	146.76
0103	Black smith II class	Day	0.175	141.60	24.78
0114	Beldars	Day	1.50	135.25	202.88
0115	Coolies	Day	2.94	135.25	397.64
9,999	Sundries	L.S.	17.94	1.00	17.94
	TOTAL				2 862.33
	Add 1 % for water charges				28.62
	TOTAL				2 890.95
	Add 15% for contractor's profit and overheads				433.64
	Cost of 10 cum.				3 324.59
	Cost of 1 cum.				332.46
	Say				332.45

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 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 180m length of a pipe of an average dia. say 40mm. 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				
	Rate vide item no. 2.8.1	cum	85.05	103.40	8 794.17
	Rate vide item no. 2.25	cum	85.05	45.70	3 886.78
	TOTAL				12 680.95
	Cost of 180m length of pipes				12 680.95
	Cost for lm. length of pipe				70.45
	Say				70.45

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 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

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 110m length of a pipe of an average dia. say 200mm Slope assumed 1 in 200. Earth work and filling-				

Code	Description	Unit	Quantity	Rate	Amount
	Minimum depth of trench = 0.75+0.20 = 0.95m Average depth = (1.50+0.95)/2 = 1.225M Width = 0.40 + 0.20 = 0.60 m 110x0.60x1.225 = 80.85 cum 5% for collars = 4.04 cum Total = 84.89 cum				
	Rate vide item no. 2.8.1	cum	84.89	103.40	8 777.63
	Rate vide item no. 2.25	cum	84.89	45.70	3 879.47
	TOTAL				12 657.10
	Cost of 110m length of pipe				12 657.10
	Cost for lm length of pipe				115.06
	Say				115.05

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 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

2.10.1.3 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 a 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				
	Rate vide item no. 2.8.1	cum	72.29	103.40	7 474.79
	Rate vide item no. 2.25	cum	72.29	45.70	3 303.65
	TOTAL				10 778.44
	Cost of 60m length of pipe				10 778.44
	Cost for lm length of pipe				179.64
	Say				179.65

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 upto 1.5 metre).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 300m length of pipe of an average dia. say 200mm Slope assumed 1 in 200. 100x0.60x1.75= 105.00 cum 200x0.60x2.00 = 240.00 cum. = 345.00 cum. Collars 5% = 17.25 cum. = 362.25 cum.				

Code	Description	Unit	Quantity	Rate	Amount
	Rate vide item no. 2.8.1				
	Rate vide item *no.* 2.25	cum	362.25	103.40	37456.65
	1/2x200xx1.60x1.00=160 cum	cum	362.25	45.70	16554.82
	=362.25 cum.				
	Rate vide item no. 2.6.1	cum	160.00	101.85	16296.00
	Rate vide item no.2.25	cum	160.00	45.70	7312.00
	Extra for addition lift				
	$^1/_2$x200x0.60x1.50= 135.00 cum.				
	Collar 5% = 6.75				
	= 141.75 cum.				
	Rate vide item no. 2.26.1	cum	141.75	18.90	2679.08
	Cost for 300 m. length of pipe				80298.55 (B)
	Extra over item 2.10.1.2 i.e.				
	Cost for 300 m. length of pipe upto 1.50 m. depth	metre	300.00	115.05	-34515.00 (A)
	Extra cost for 300 metre= B-A				45783.55 (C)
	Extra cost for one metre= C/300				152.61
	Percentage increase over item no 2.101.2				132.65
	=(Cx100)/A				
	say				133.00%
					per meter

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 upto 1.5 metre.)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100m length of pipe of an average dia. say 200mm				
	Slope assumed 1 in 200.				
	Earth work and filling-				
	1x100x0.60x2= 120 cum				
	Collars 5% = 6 cum.				
	=126 cum.				
	Rate vide item no. 2.8.1	cum	126.00	103.40	13028.40
	Rate vide item *no.* 2.25	cum	126.00	45.70	5758.20
	Earth work				
	100x1.60x1.25= 200 cum				
	Rate vide item no. 2.6.1	cum	200.00	101.85	20370.00
	Rate vide item no.2.25	cum	200.00	45.70	9140.00
	Extra for additional lift				
	1x100x0.60x1.50 = 90 cum				
	2x0.50x100x0.60x0.50 = 30 cum				
	=120 cum				
	Collare 5% = 6				
	= 126 cum.				
	Rate vide item no. 2.26.1	cum	126.00	18.90	2381.40
	Csot for 300 m. length of pipe				50678.00(B)
	Extra over item 2.10.1.2 i.e.				
	Cost for 100 m. length of pipe upto 1.50 m. depth	metre	100.00	115.05	-11505.00 (A)
	Extra cost for 100 metre= B-A				39173.00 (c)
	Extra cost for one metre= C/100				391.73
	Percentage increase over item no 2.101.2				
	=(Cx100)/A				340.49
	say				340.00%
					per meter

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

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 180 m length of a pipe of a average dia. say 40mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.10.1.1				
	Rate vide item no. 2.9.1	cum	85.05	162.65	13 833.38
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	85.05	45.70	3 886.78
	Extra labour for ramming of rock				
0114	Beldars	Day	2.00	135.25	270.50
	TOTAL				17 990.66 (A)
	Add for water charges @ 1% on (A)				2.70 (B)
	TOTAL				17 993.36
	Add for contractor's profit and overheads @ 15% onRs. (A+B)				40.98
	Cost for 180 m. length of pipe				18 034.34
	Cost for 1 m. length of pipe				100.19
	Say				100.20

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.2 Hard rock (requiring blasting)

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 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.				
	Rate vide item no. 2.9.1	cum	93.60	162.65	15224.04
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	93.60	45.70	4277.52
	Extra labour for ramming of rock				
0114	Beldars	Day	2.20	135.25	297.55 (A)
	TOTAL				19.799.11

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charges @ 1% on A				2.98 (B)
	TOTAL				19802.09
	Add for contractor's profit and overheads @ 15% on A+B				45.08
	Cost for 80 m. length of pipe				19 847.17
	Cost for 1.00 m length of pipe				248.09
	Say				248.10

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.1 Ordinary rock :

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 m. length of a 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 = $\frac{1.35+ 1.50}{2}$ = 1.425 m.				
	Width of trench = 0.90 m.				
	30x0.90x1.425 =30.475 cum.				
	5% for collors = $\frac{1.924 \text{ cum}}{40.399 \text{ cum}}$				
	Rate vide item no. 2.9.1	cum	40.399	162.65	6 570.90
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	40.399	45.70	1 846.23
0114	Beldars	Day	0.94	135.25	127.14 (A)
	TOTAL				8 544.27
	Add for water charges @ 1 % on (A)				1.27 (B)
	TOTAL				8 545.54
	Add for contractor's profit and overheads @ 15% on (A+B)				19.26
	Cost for 30 m length of a pipe				8 564.80
	Cost for one m length of a pipe				285.49
	Say				285.50

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

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 40mm.				
	Slope assumed 1 in 200				

Code	Description	Unit	Quantity	Rate	Amount
	Excavation-				
	Quantity same as in item No.2.10.1.1				
	Rate vide item no. 2.9.2	cum	85.05	272.95	23214.40
	Refilling, ramming and watering				
	Rate vide item no. *2.25*	cum	85.05	45.70	3886.79
	Extra labour for ramming of rock				
0114	Beldars	Day	2.50	135.25	38.12 (A)
	TOTAL				27439.31
	Add for water charges @ 1 % on A				3.38 (B)
	TOTAL				
	Add for contractor's profit and overheads @				27442.69
	15% on (A+B)				51.22
	Cost for 180 m. length of pipe				27493.91
	Cost for lm. length of pipe				152.74
	Say				152.75

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.2 Hard rock (requiring blasting)

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 200mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.2				
	Rate vide item no. 2.92	cum	93.60	272.95	25548.12
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	93.60	45.70	4277.52
	Extra labour for ramming of rock				
0114	Beldars	Day	2.75	135.25	371.94
	TOTAL				30197.58
	Add for water charges @ 1 % on A				3.72 (B)
	TOTAL				30201.30
	Add for contractor's profit and overheads @ 15% on Rs. (A+B)				56.35
	Cost for 80 m. length of pipe				30257.65
	Cost for lm. length of pipe				378.22
	Say				378.20

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.2 Hard rock (requiring blasting)

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 m length of a pipe of an average dia. Say 450mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.3				
	Rate vide item no. 2.9.2	cum	40.399	272.95	11026.91
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	40.399	45.70	1846.23
	Extra labour for ramming of rock				
0114	Beldars	Day	1.17	135.25	158.24(A)
	TOTAL				13031.38
	Add for water charges @ 1 % on A				1.58(B)
	TOTAL				13032.96
	Add for contractor's profit and overheads @ 15% on (A+B)				23.97
	Cost for 30 m. length of pipe				13056.93
	Cost for lm. length of pipe				435.23
	Say				435.25

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

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 40mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.10.1.1				
	Rate vide item no. 2.9.3	cum	85.05	332.45	28274.87
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	85.05	45.70	3886.78
	Extra labour for ramming of rock				
0114	Beldars	Day	2.50	135.25	338.12 (A)
	TOTAL				32499.77
	Add for water charges @ 1 % on A				3.38 (B)
	TOTAL				32503.15
	Add for contractor's profit and overheads @ 15% on (A+B)				51.22
	Cost for 180 m. length of pipe				32554.37
	Cost for lm. length of pipe				180.86
	Say				180.85

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.3 Hard rock (blasting prohibited)

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 200mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No.2.13.1.2				
	Rate vide item no. 2.9.3	cum	93.60	332.45	31117.32
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	93.60	45.70	4277.52
	Extra labour for ramming of rock				
0114	Beldars	Day	2.75	135.25	371.94 (A)
	TOTAL				35766.78
	Add for water charges @ 1 % on (A)				3.72 (B)
	TOTAL				35770.50
	Add for contractor's profit and overheads @ 15% on (A+B)				56.35
	Cost for 80 m. length of pipe				35826.85
	Cost for lm. length of pipe				447.84
	Say				447.85

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 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 50m :

2.13.3 Hard rock (blasting prohibited)

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 m length of a pipe of an average dia. say 450mm.				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as in item No. 2.13.1.3				
	Rate vide item no. 2.9.3	cum	40.399	332.45	13430.65
	Refilling, ramming and watering				
	Rate vide item no. 2.25	cum	40.399	45.70	1846.23
	Extra labour for ramming of rock				
0114	Beldars	Day	1.17	135.25	158.24
	TOTAL				15435.12
	Add for water charges @ 1 % on (A)				1.58
	TOTAL				15436.70
	Add for contractor's profit and overheads @ 15% on (A+B)				23.97
	Cost for 80 m. length of pipe				15460.67
	Cost for lm. length of pipe				515.36
	Say				515.35

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 upto 1.5 metre.)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 300m length of a pipe of an average dia. say 200mm. Slope assumed 1 in 200. Excavation- 100x0.90x1.50 =157.50 cum. 200x0.90x20.00 = 360.00 cum. = 517.50 cum.				
	Rate vide item no. 2.9.2	cum	517.50	272.95	141251.63
	0.50x200x1.9x1 = 190 cum.				
	Rate vide item no. 2.7.2	cum	190.00	252.20	47918.00
	Refilling, ramming and watering 517.50+190.00 = 707.50 cum.				
	Rate vide item no. 2.25	cum	707.50	45.70	32332.75
	Extra for additional lift 0.50x300x0.90x1.50 = 202.50 cum.				
	Rate vide item no.2.26.2	cum	202.50	33.85	6854.62
	Extra labour for ramming of rock.				
0114	Beldars	Day	16.50	135.25	2321.62 (A)
	TOTAL				212165.61
	Add for water charges @ 1 % on (A)				22.32 (B)
	TOTAL				230588.62
	Add for contractor's profit and overheads @ 15%on (A+B)				338.09
	Cost for 300m length of pipe				230926.71 (X)
	Exta over item 2.13.2.2				
	Less cost of 300 m length of pipe upto 1.5m depth	Metre	300.00	378.20	-113460.00 (Y)
	Extra cost for 300 m = X - Y				117466.71(Z)
	Extra cost for one m				391.56
	Percentage increase over item 2.13.2.2 = (Zxl00)/Y				103.53%
	Say				104.00% per metre.

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100m length of a pipe of an average dia. say 200mm. Slope assumed 1 in 200. Max, depth assumed 3.50m Excavation- 100x0.90x2 =180.00 cum.				
	Rate vide item no. 2.9.2	cum	180.00	272.95	49131.00
	100x1.90x1.25 = 237.50 cum				
	Rate vide item no. 2.7.2	cum	237.50	252.20	59 897.50
	Extra for additional lift 1x100x0.90x1.50= 135.00 2x0.50x100x0.90x0.5=45				

Code	Description	Unit	Quantity	Rate	Amount
	Total = 180 cum.				
	Ratevide item no. 2.26.2	cum	180.00	33.85	6 093.00
	Refilling, ramming and watering 180+237.50 = 417.50 cum.				
	Rate vide item no. 2.25	cum	417.50	45.70	19 079.75
	Extra labour for ramming of rock				
0114	Beldars	Day	9.25	135.25	1251.06(A)
	TOTAL				135452.31
	Add for water charges.® 1% on (A)				12.51 (B)
	TOTAL				135464.82
	Add for contractor's profit and overheads @ 15% on A+B				189.54
	Cost for 100m length of pipe				135654.36(x)
	Exta over item 2.13.2.2				
	Less cost of 100 m length of pipe exceeding 1.5 m and upto 3 m depth	Metre	100.00	378.20	37820.00(Y)
	Extra cost for 100 m = X - Y				97834.36(Z)
	Extra cost for 1 m				978.34
	Percentage increase over item 2.13.2.2 = (ZxI00)/Y				258.68
	Say				259%

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 30m long and 1.5m deep area 2x30x1.5=90 sqm-				
	MATER1ALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks: 90x0.038 = 3.42 cum = 3420 dm^3	10 cudm	213.75	178.00	3 804.75
	Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 dm^3				
1197	Wallings l00mmx 100mm of 2nd class kail wood in scantling: 4x30x0.10x0.10 = 1.20cum = 1200 dm^3	10 cudm	75.00	160.00	1 200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
0302	Safeda Balli struts (12.5mm dia and 1.5m long): 2x17x1.50 = 51m	metre	3.1875	29.00	92.44
	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$(0.125)^3$x51 = 0.63 cum				
2,204	Total of carriage = 5.25x¼ = 1.3125 cum.	cum	1.3125	60.81	79.81
0112	Carpenter llnd class	Day	0.05	141.60	70.80
0114	Beldars	Day	1.00	135.25	135.25

Code	Description	Unit	Quantity	Rate	Amount
9,999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				5 409.96
	Add for water charge @ 1 %				54.10
	TOTAL				5 464.06
	Add for contractor's profit and over-heads @ 15%				819.61
	Costof90Sqm.				6 283.67
	Cost per sqm.				69.82
	Say				69.80

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

2.16.2 : 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 2x30x 1.50=90.00 sqm-				
	MATERIALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1,198	Poling boards of 2nd class Kail wood planks: 90x0.038 = 3.42 cum = 3420 dm^3	10 cudm	213.75	178.00	3 804.75
	Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 dm^3				
1,197	Walings 100 mmx 100mm of 2nd class kail wood in scantling: 4x30x0.10x0.10 = 1.20cum = 1200 dm^3	10 cudm	75.00	160.00	1 200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
0302	Safeda Balli struts (12.5mm dia and 1.50m long): 2x17x1.50 = 51m	metre	3.1875	29.00	92.44
	Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.1875 m				
	CARRIAGE				
	Poling boards = 3.42 cum				
	Walling =1.20 cum.				
	Balli struts: 3.14/4x$(0.125)^3$x51 =0.63 cum				
2,204	Total of carriage = 5.25x/4 = 1.3125 cum.	cum	1.3125	60.81	79.81
0112	Carpenter Ilnd class	Day	0.75	141.60	106.20
0114	Beldars	Day	2.00	135.25	270.50
9,999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				5 594.13
	Add for water charge @ 1 %				55.94
	TOTAL				5 650.07
	Add for contractor's profit and over-heads @ 15%				847.51
	Costof90Sqm.				6 497.58
	Cost per sqm.				72.20
	Say				72.20

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

2.16.3 : Depth exceeding 3 m but not exceeding 4.50 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a trench 30m long and 1.50m deep area 2x30x 1.5=90 sqm-				
	MATERIALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1,198	Poling boards of 2nd class Kail wood planks : 90x0.038 = 3.42 cum = 340 dm^3	10 cudm	213.75	178.00	3 804.75
	Qty taken for cost of using once after deducting for credit = 3420x¼x¼ = 213.75 dm^3				
1,197	Wallings 100mmx 100mm of 2nd class kail wood in scantling: 4x30x0.10x0.10 = l.20cum = 1200 dm^3	10 cudm	75.00	160.00	1200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
0302	Safeda Balli struts (12.5mm dia and 1.5m long): 2x17x1.5 = 51m	metre	3.1875	29.00	92.44
	Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.1875 m				
	CARRIAGE				
	Poling boards = 3.42 cum				
	Walling - = 1.20 cum.				
	Balli struts: 3.14/4x$(0.125)^3$x51 =0.63 cum				
2,204	Total of carriage = 5.25x¼ = 1.3125 cum.	cum	1.3125	60.81	79.81
	Labour				
0112	CarpenferTmd class	Day	1.50	141.60	212.40
0114	Beldars	Day	4.00	135.25	541.00
9,999	Sundries	L.S.	80.73	1.00	80.73
	TOTAL				6011.13
	Add for water charge @ 1%				60.11
	TOTAL				6 071.24
	Add for contractor's profit and over-heads @ 15%				910.69
	Costof90Sqm.				6 981.93
	Cost per sqm.				77.58
	Say				77.60

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 1.2m x 1.0m x1.5m- Surface area: 2x(1.2+1.0)x1.5 = 6.6sqm				
	MATERIALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				

Code	Description	Unit	Quantity	Rate	Amount
1198	Poling boards of 2nd class Kail wood planks: 6.60x0.038 = 0.251 cum = 251 dm^3 Qty taken for cost of using once after deducting for credit = 251x¼x¼ = 15.6875 dm^3	10 cudm	15.6875	178.00	279.24
1197	Walling of 2nd class kail wood scantling 2x2x1.124x0.10x0.10 =0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82dm^3 Qty taken for cost of using once after deducting for credit = 82x¼x¼ = 5.125 dm^3	10 cudm	5.125	160.00	82.00
0302	Safeda Balli struts (125mm dia 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 = 0.1035 m	metre	0.4118	29.00	11.94
2,204	CARRIAGE Poling boards = 0.251 cum Walling =0.082 cum. Balli struts 3.14/4x$(0.125)^2$x6.59 = 0.081 cum. Total of carriage = 0.414 cumx¼ = 0.1035 cum.	cum	0.1035	60.81	6.29
	LABOUR:				
0112	Carpenter IInd class	Day	0.06	141.60	8.50
0114	Beldars	Day	0.12	135.25	16.23
9,999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				406.93
	Add for water charge @ 1 %				4.07
	TOTAL				411.00
	Add for contractor's profit and over-heads @ 15%				61.65
	Cost of 6.6 sqm.				472.65
	Cost per sqm.				71.61
	Say				71.60

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).

2.17.2 : Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2m x 1.0m x1.5m- Surface area: 2x(1.20+1.0)x1.50 = 6.6 sqm MATERIALS The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks: 6.6x0.038 = 0.251 cum = 251 dm^3 Qty taken for cost of using once after deducting for credit = 251x¼x¼ = 15.6875 dm^3	10 cudm	15.6875	178.00	279.24

Code	Description	Unit	Quantity	Rate	Amount
1197	Walling of 2nd class kail wood scantling 2x2x1.124x0.10x0.10 = 0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82dm^3 Qty taken for cost of using once after deducting for credit = 82x¼x¼ = 5.125 dm^3	10 cudm	5.125	160.00	82.00
0302	Safeda Balli struts (125mm dia 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 = 0.1035 m	metre	0.4118	29.00	11.94
2,204	CARRIAGE Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts 3.14/4x(0.125)^{2}x6.59 = 0.081 cum. Total of carriage = 0.414 cum x¼ = 0.1035 cum	cum	0.1035	60.81	6.29
	LABOUR:				
0112	Carpenter IInd class	Day	0.12	141.60	16.99
0114	Beldars	Day	0.25	135.25	33.81
9,999	Sundries	L.S.	5.46	1.00	5.46
	TOTAL				435.73
	Add for water charge @ 1%				4.36
	TOTAL				440.09
	Add for contractor's profit and over-heads @ 15%				66.01
	Cost of 6.60 sqm.				506.10
	Cost per sqm.				76.68
	Say				76.70

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).

2.17.3 : Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2m x 1,0m x 1.5m- Surface area: 2x(1.2+1.0)x 1.5 = 6.6sqm MATERIALS The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks: 6.6x0.038 = 0.251 cum = 251 dm^3 Qty taken for cost of using once after deducting for credit = 251x¼x¼ = 15.6875 dm^3	10 cudm	15.6875	178.00	279.24
1197	Walling of 2nd class kail wood scantling 2x2x1.124x0.10x0.10 = 0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82 dm^3 Qty taken for cost of using once after deducting for credit = 82x¼x¼ = 5.125 dm^3	10 cudm	5.125	160.00	82.00

Code	Description	Unit	Quantity	Rate	Amount
0302	Safeda Balli struts (12.5mm dia 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 = 0.1035 m	metre	0.4118	29.00	11.94
2204	CARRIAGE Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts 3.14/4x(0.125)^{2}x6.59 = 0.081 cum. Total of carriage = 0.414 cum x¼ = 0.1035 cum	cum	0.1035	60.81	6.29
	LABOUR:				
0112	Carpenter IInd class	Day	0.19	141.60	26.90
0114	Beldars	Day	0.38	135.25	51.40
9,999	Sundries	L.S.	8.06	1.00	8.06
	TOTAL				465.83
	Add for water charge @ 1 %				4.66
	TOTAL				470.49
	Add for contractor's profit and over-heads @ 15%				70.57
	Cost of 6.6 sqm.				541.06
	Cost per sqm.				81.98
	Say				82.00

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 1.5 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for an area 30m long and 1.50m deep-Area -30x1.50m = 45 sqm. MATERIALS The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks 250x38mm : 45x0.038 = 1.71 cum = 1.710 dm^3 Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 dm^3	10 cudm	106.875	178.00	1 902.38
1197	Walling of IInd class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 dm^3 Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 dm^3	10 cudm	18.75	160.00	300.00
0302	Raking struts Safeda balleis 12mm dia : 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	29.00	46.11
2,204	CARRIAGE Poling boards = 1.71 cum Walling " = 0.30cum: Rakingstruts3.14/4x(0.125)2 = 0.313cum	cum	0.581	60.81	35.33

Code	Description	Unit	Quantity	Rate	Amount
	Total of carriage = 2.323 cum x¼ = 0.581 cum				
	LABOUR:				
0112	Carpenter IInd class	Day	0.25	141.60	35.40
0114	Beldars	Day	0.50	135.25	67.62
9,999	Sundries	L.S.	31.46	1.00	31.46
	TOTAL				2 418.30
	Add for water charge @ 1 %				24.18
	TOTAL				2 442.48
	Add for contractor's profit and over-heads @ 15%				366.37
	Cost of 45 Sqm.				2 808.85
	Cost per sqm.				62.42
	Say				62.40

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) :

2.18.2 : 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 -30x 1,5m = 45 sqm.				
	MATERIALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks 250x38mm : 45x0.038 = 1.71 cum =1710 dm^3	10 cudm	106.875	178.00	1 902.38
	Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 dm^3				
1197	Walling of IInd class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 dm^3	10 cudm	18.75	160.00	300.00
	Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 dm^3				
0302	Raking struts Safeda balleis 12mm dia : 17 x 1.5 = 25.5m	metre	1.59	29.00	46.11
	Qty taken for cost of using once after deducting for credit = 25.5x¼x¼ = 1.59 m				
2204	CARRIAGE	cum	0.581	60.81	35.33
	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				
	LABOUR:				
0112	Carpenter IInd class	Day	0.50	141.60	70.80
0114	Beldars	Day	1.00	135.25	135.25
9,999	Sundries	L.S.	34.06	1.00	34.06
	TOTAL				2 523.93
	Add for water charge @ 1 %				25.24
	TOTAL				2 549.17
	Add for contractor's profit and over-heads @ 15%				382.38
	Cost of 45 Sqm.				2 931.55
	Cost per sqm.				65.15
	Say				65.15

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):

2.18.3 : 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 -30x 1.5m = 45 sqm.				
	MATERIALS				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of 2nd class Kail wood planks 250x38mm : 45x0.038 = 1.71 cum = 1710 dm^3	10 cudm	106.875	178.00	1902.38
	Qty taken for cost of using once after deducting for credit = 1710x¼x¼ = 106.875 dm^3				
1197	Walling of IInd class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 dm^3	10 cudm	18.75	160.00	300.00
	Qty taken for cost of using once after deducting for credit = 300x¼x¼ = 18.75 dm^3	metre	1.59	29.00	46.1
0302	Raking struts Safeda balleis 12mm dia : 17 x 1.50 = 25.5m				
	Qty taken for cost of using once after deducting for credit = 25.5x¼x¼ = 1.59 m				
2204	CARRIAGE	cum	0.581	60.81	35.33
	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				
	LABOUR:				
0112	Carpenter IInd class	Day	0.75	141.60	106.20
0114	Beldars	Day	1.50	135.25	202.88
9,999	Sundries	L.S.	47.58	1.00	47.58
	TOTAL				2 640.48
	Add for water charge @ 1 %				26.40
	TOTAL				2 666.88
	Add for contractor's profit and over-heads @ 15%				400.03
	Cost of 45 Sqm.				3 066.91
	Cost per sqm.				68.15
	Say				68.15

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 2x30x1.5=90 sqm-				
	MATERIALS				
1198	Poling boards of 2nd class Kail wood planks : 90x0.038 = 3.42 cum = 3420 dm^3				
	Less @ 1/8 of Qty as timber is supposed to be used once before = 3420 - 427.5 = 2992.5 dm^3	10 cudm	2992.50	178.00	53266.50

Code	Description	Unit	Quantity	Rate	Amount
1197	Walings 100mmx100mm of 2nd class kail wood in scantling: 4x30x0.10x0.10 = 1.20cum = 1200 dm3	10 cudm	1050.00	160.00	16 800.00
	Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 dm^3				
0302	Safeda Balli struts (12.5mm dia 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	29.00	1294.27
2204	CARRIAGE:				
	Poling boards = 3.42 cum				
	Walling =1.20 cum.				
	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	cum	2.675	60.81	162.67
	TOTAL				71523.44
	Add for water charge @ 1 %				715.23
	TOTAL				72 238.67
	Add for contractor's profit and over-heads @ 15%				10 835.80
	Cost of 90Sqm.				83 074.47
	Cost per sqm.				923.05
	Say				923.05

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 of length 30m and 1.5m deep surface area - 2x30x 1.50 = 90 sqm.				
	MATERIALS:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling board 1.5mx0.25x0.038m : 2x40x1.5x0.25x0.038= 1.14cum = 1140 dm^3	10 cudm	71.25	178.00	1268.25
	Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 dm^3				
	(Rate per II class kail wood planks)				
1197	Walling l00mmxl00mm : 4x30mx0.lmx0.lm = 1.20cum= 1200 dm^3	10 cudm	75.00	160.00	1 200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
	(Rate per II class kail wood scantling)				
0302	Safeda Bailies struts (125mm dia. And 1.5m long)-2x17x1.50 = 51m	metre	3.18	29.00	92.22
	Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m				
2204	CARRIAGE:	cum	0.74	60.81	45.00
	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				
	LABOUR:				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter IInd class	Day	0.25	141.60	35.40
0114	Beldars	Day	0.50	135.25	67.62
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				2728.25
	Add for water charge @ 1 %				27.28
	TOTAL				2755.53
	Add for contractor's profit and over-heads @ 15%				413.33
	Cost of 90 Sqm				3168.86
	Cost per sqm.				35.21
	Say				35.20

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

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 of length 30m and 1.5m deep surface area - 2x30x1.5 = 90 sqm.				
	MATERIALS:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling board 1.50mx0.25x0.038m: 2x40x1.5x0.25x0.038= 1.14cum= 1140 dm^3	10 cudm	71.25	178.00	1268.25
	Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 dm^3				
	(Rate per II class kail wood planks)				
1197	Walling 100mmx 100mm: 4x30mx0.lmx0.lm = 1.20cum= 1200 dm^3	10 cudm	75.00	160.00	1200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
	(Rate per II class kail wood scantling)				
0302	Safeda Ballies struts (125mm dia. And 1.5m long)-2x17x1.5 = 51m	metre	3.18	29.00	92.22
	Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m				
2,204	CARRIAGE:	cum	0.74	60.81	45.00
	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				
	LABOUR:				
0112	Carpenter IInd class	Day	0.50	141.60	70.80
0114	Beldars	Day	1.00	135.25	135.25
9,999	Sundries	L.S.	33.15	1.00	33.15
	TOTAL				2 844.67
	Add for water charge @ 1 %				28.45
	TOTAL				2 873.12
	Add for contractor's profit and over-heads @ 15%				430.97
	Cost of 90 Sqm				3 304.09
	Cost per sqm.				36.71
	Say				36.70

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

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 of length 30m and 1.5m deep surface area - 2x30x1.5 = 90 sqm.				
	MATERIALS:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling board 1.50mx0.25x0.038m : 2x40x1.5x0.25x0.038= 1.14 cum = 1140 dm^3	10 cudm	71.25	178.00	1268.25
	Qty taken for cost of using once after deducting for credit = 1140x¼x¼ = 71.25 dm^3				
	(Rate per II class kail wood planks)				
1197	Walling l00mmxl00mm : 4x30mx0.lmx0.lm = 1.20cum= 1200 dm^3	10 cudm	75.00	160.00	1 200.00
	Qty taken for cost of using once after deducting for credit = 1200x¼x¼ = 75 dm^3				
	(Rate per II class kail wood scantling)				
0302	Safeda Ballies struts (125mm dia. And 1.5m long)-2x17x1.5 = 51m	metre	3.18	29.00	92.22
	Qty taken for cost of using once after deducting for credit = 51x¼x¼ = 3.18 m				
2204	CARRIAGE:	cum	0.74	60.81	45.00
	Poling boards =1.14 cum				
	Walling = 1.20 cum				
	Bailies struts 3.14/4x$(0.125)^2$ = 0.63 cum				
	Tetal of carriage = 2.97 cum x¼ = 0.74 cum				
	LABOUR:				
0112	Carpenter Ilnd class	Day	1.00	141.60	141.60
0114	Beldars	Day	1.75	135.25	236.69
9999	Sundries	L.S.	46.67	1.00	46.67
	TOTAL				3 030.43
	Add for water charge @ 1%				30.30
	TOTAL				3 060.73
	Add for contractor's profit and over-heads @ 15%				459.11
	Cost of 90 Sqm				3 519.84
	Cost per sqm.				39.11
	Say				39.10

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 1.5 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2x lm x 1.5m - Surface area 2(1.2+1.0)x 1.5 = 6.6 sqm				
	MATERIALS :				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm wide and 38mm thick :	10 cudm	5.375	178.00	95.68

Code	Description	Unit	Quantity	Rate	Amount
	6x0.25xl.5x0.038 = 0.086 cum = 86dm³ Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 dm³				
1197	Walling l00mmxl00mm II class kail wood in scantling 4x 1.2x0.1 x0.1 = 0.048 cum = 48 dm³ Qty taken for cost of using once after deducting for credit = 486x¼x¼ = 3 dm³	10 cudm	3.00	160.00	48.00
0302	Safeda Balli struts 125mm dia. (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	29.00	11.60
2204	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	cum	0.053	60.81	3.22
	LABOUR:				
0112	Carpenter Ilnd class	Day	0.03	141.60	4.25
0114	Beldars	Day	0.06	135.25	8.12
9999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				172.69
	Add for water charge @ 1 %				1.73
	TOTAL				174.42
	Add for contractor's profit and over-heads @ 15%				26.16
	Cost of 6.6 sqm.				200.58
	Cost per sqm.				30.39
	Say				30.40

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):

2.21.2 : Depth exceeding 1.5 m but not exceeding 3 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2x 1mx 1.5m Surface area2(1.2+1.0)xl.5 = 6.6 sqm MATERIALS : The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm wide and 38mm thick : 6x0.25x1.5x0.038 = 0.086 cum = 86dm³ Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 dm³	10 cudm	5.375	178.00	95.68
1197	Walling 100mmxl00mm IInd class wood in scantling 4x1.2x0.1 x0.1 = 0.048 cum = 48 dm³ Qty taken for cost of using once after deducting for credit = 486x¼x¼ = 3 dm³	10 cudm	3.00	160.00	48.00
0302	Safeda Balli struts 125mm dia. (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	29.00	11.60

Code	Description	Unit	Quantity	Rate	Amount
2204	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	cum	0.053	60.81	3.22
	LABOUR:				
0112	Carpenter IInd class	Day	0.06	141.60	8.50
0114	Beldars	Day	0.12	135.25	16.23
9999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				185.96
	Add for water charge @ 1 %				1.86
	TOTAL				187.82
	Add for contractor's profit and over-heads @ 15%				28.17
	Cost of 6.6 sqm.				215.99
	Cost per sqm.				32.73
	Say				32.75

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):

2.21.3 : Depth exceeding 3 m but not exceeding 4.5 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a manhole 1.2x1lmx 1.5m Surface area 2(1.2+1.0)x1.5 = 6.6 sqm MATERIALS : The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm wide and 38mm thick : 6x0.25x1.5x0.038 = 0.086 cum = 86dm^3 Qty taken for cost of using once after deducting for credit = 86x¼x¼ = 5.3755 dm^3	10 cudm	5.375	178.00	95.68
1197	Walling 100mmx 100mm IInd class kail wood scantling 4x1.2x0.10 x0.10 = 0.048 cum = 48 dm^3 Qty taken for cost of using once after deducting for credit = 48x¼x¼ = 3 dm^3	10 cudm	3.00	160.00	48.00
0302	Safeda Balli struts 125mm dia. (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	29.00	11.60
2204	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	cum	0.053	60.81	3.22
	LABOUR:				
0112	Carpenter IInd class	Day	0.10	141.60	14.16
0114	Beldars	Day	0.20	135.25	27.05
9999	Sundries	L.S.	3.64	1.00	3.64

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				203.35
	Add for water charge @ 1 %				2.03
	TOTAL				205.38
	Add for contractor's profit and over-heads @ 15%				30.81
	Cost of 6.6 sqm.				236.19
	Cost per sqm.				35.79
	Say				35.80

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 1.5 m.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for an area 30m long and 1.5m deep Area = 30 x 1.50 = 45 sqm.				
	MATERIALS :				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm x 38mm				
	40x1.5x0.25x0.038 = 0.57cum. = 570 dm^3	10 cudm	35.625	178.00	634.12
	Qty taken for cost of using once after deducting for credit = 570x¼x¼ = 35.625 dm^3				
0302	Raking struts- Safeda Bailies				
	125mm dia 40x1.50 = 60m	metre	3.75	29.00	108.75
	Qty taken for cost of using once after deducting for credit = 60x¼x¼ = 3.75 m				
2204	CARRIAGE :	cum	0.3275	60.81	19.92
	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				
	LABOUR:				
0112	Carpenter Ilnd class	Day	0.12	141.60	16.99
0114	Beldars	Day	0.25	135.25	33.81
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				833.35
	Add for water charge @ 1 %				8.33
	TOTAL				841.68
	Add for contractor's profit and over-heads @ 15%				126.25
	Cost of 45 sqm.				967.93
	Cost per sqm.				21.51
	Say				21.50

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

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.				
	MATERIALS :				

Code	Description	Unit	Quantity	Rate	Amount
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm x 38mm				
	40x1.5x0.25x0.038 = 0.57cum. = 570 dm^3	10 cudm	35.625	178.00	634.12
	Qty taken for cost of using once after deducting for credit = 570x½x¼ = 35.625 dm^3				
0302	Raking struts- Safeda Bailies				
	125mm dia 40x1.5 = 60m	metre	3.75	29.00	108.75
	Qty taken for cost of using once after deducting for credit = 60x½x¼ = 3.75 m				
2204	CARRIAGE:	cum	0.3275	60.81	19.92
	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				
	LABOUR:				
0112	Carpenter llnd class	Day	0.25	141.60	35.40
0114	Beldars	Day	0.50	135.25	67.62
9999	Sundries	L.S.	33.15	1.00	33.15
	TOTAL				898.96
	Add for water charge @ 1 %				8.99
	TOTAL				907.95
	Add for contractor's profit and over-heads @ 15%				136.19
	Cost of 45 sqm.				1 044.14
	Cost per sqm.				23.20
	Say				23.20

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

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 30m long and 1.5m deep, Area = 30 x 1.50 = 45 sqm.				
	MATERIALS :				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of 2nd class kail wood planks 250mm x 38mm				
	40x1.5x0.25x0.038 = 0.57cum. = 570 dm^3	10 cudm	35.625	178.00	634.12
	Qty taken for cost of using once after deducting for credit = 570x½x¼ = 35.625 dm^3				
0302	Raking struts- Safeda Bailies				
	125mm dia 40x1.50 = 60m	metre	3.75	29.00	108.75
	Qty taken for cost of using once after deducting for credit = 60x½x¼ = 3.75 m				
2204	CARRIAGE:	cum	0.3275	60.81	19.92
	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				

Code	Description	Unit	Quantity	Rate	Amount
	LABOUR:				
0112	Carpenter IInd class	Day	0.50	141.60	70.80
0114	Beldars	Day	0.88	135.25	119.02
9999	Sundries	L.S.	47.58	1.00	47.58
	TOTAL				1 000.19
	Add for water charge @ 1%				10.00
	TOTAL				1 010.19
	Add for contractor's profit and over-heads @ 15%				151.53
	Cost of 45 sqm.				1 161.72
	Cost per sqm.				25.82
	Say				25.80

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 of length 30m and 1.5m deep surface area - 2x30x1.50 = 90 sqm.				
	MATERIALS:				
1198	Poling board 1.50mx0.25x0.038 2x40xl.5x0.25x0.038 = 1.14cum = 1140 dm^3 (Rate per II class kail wood planks)	10 cudm	997.50	178.00	17 755.50
	Less @ 1/8 of Qty as timber is supposed to be used once before = 1140 -142.50 = 997.50 dm^3				
1197	Walling 100mmx 100mm : 4x30mx0.10 mx0.10 m = 1.20cum= 1200 dm^3 (Rate per II class kail wood in scantling)	10 cudm	1050.00	160.00	16 800.00
	Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 dm^3				
0302	Safeda Bailies struts (125mm dia. And 1.5m long)-2x17x1.5= 51m	metre	44.63	29.00	1 294.27
	Less @ 1/8 of Qty as timber is supposed to be used once before = 51- 6.37 = 44.63 m				
2204	CARRIAGE:	cum	1.485	60.81	90.30
	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 Taking half = 2.97 x½ =.1.485 cum				35940.07
	TOTAL				359.40
	Add for water charge @ 1 %				36 299.47
	TOTAL				5 444.92
	Add for contractor's profit and over-heads @ 15%				
	Cost of 90 sqm.				41 744.39
	Cost per sqm.				463.83
	Say				463.85

2.24 : Extra rates for quantities of works, executed: (The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions).

2.24.1 : In or under water and/ or liquid mud, including pumping out water as required.

Code	Description	Unit	Quantity	Rate	Amount
	Extra due to slow progress and dewatering: 20% of the rate of the item	Metre depth	(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.)		

2.24 Extra rates for quantities of works, executed: . (The extra percentage rate is applicable in respect af each item but limited to quantities of work executed in these difficult conditions).

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

Code	Description	Unit	Quantity	Rate	Amount
	Extra due to slow progress and dewatering: 25% of the rate of the item -	Metre depth	(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 include those that covered under contractual 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 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 ignorel.

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	Labour-				
0128	Mate	Day	0.20	138.45	27.69
0115	Coolies	Day	2.50	135.25	338.12
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				393.50
	Add for water charge @ 1 %				3.94
	TOTAL				397.44
	Add for contractor's profit and over-heads @ 15%				59.62
	Cost of 10 cum.				457.06
	Cost of 1 cum.				45.71
	Say				45.70

2.26 : Extra for every additional lift of 1.5 m or part thereof in.
2.26.1: All kinds of soil.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 cum.				
	Labour:-				
0128	Mate	Day	0.10	138.45	13.84
0114	Beldars	Day	1.1.10	135.25	148.78
	TOTAL				162.62
	Add for water charge @ 1%				1.63
	TOTAL				164.25
	Add for contractor's profit and over-heads @ 15%				24.64
	Cost of 10 cum.				188.89
	Cost of 1 cum.				18.89
	Say				18.90

2.26 : Extra for every additional lift of 1.5 m or part thereof in.
2.26.2 : Ordinary or hard rock.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 cum.				
	Labour:-				
0128	Mate	Day	0.20	138.45	27.69
0114	Beldars	Day	1.95	135.25	263.74
	TOTAL				291.43
	Add for water charge @ 1%				2.91
	TOTAL				294.34
	Add for contractor's profit and over-heads @ 15%				44.15
	Cost of 10 cum.				338.49
	Cost of 1 cum.				33.85
	Say				33.85

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.				
	Materials:				
6501	Jamuna sand	cum	10.00	175.00	1 750.00
2335	Carriage of Jamuna sand	cum	10.60	53.21	532.10
	Labour:				
0114	Beldars	Day	0.89	135.25	120.37
0115	Coolies	Day	1.07	135.25	144.72
0101	Bhishti	Day	0.35	138.45	48.46
	TOTAL				2 595.65
	Add for water charge @ 1 %				25.96
	TOTAL				2 621.61
	Add for contractor's profit and over-heads @ 15%				393.24
	Cost of 10 cum.				3 014.85
	Cost of 1 cum.				301.49
	Say				301.50

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

2.28.1 : All kinds of soil.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm.				
	Labour:				
0114	Beldars	Day	1.97	135.25	266.44
0115	Coolies	Day	1.29	135.25	174.47
	TOTAL				440.91
	Add for water charge @ 1 %				4.41
	TOTAL				445.32
	Add for contractor's profit and over-heads @ 15%				66.80
	Cost of 100 sqm.				512.12
	Say				512.10

2.29 : Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.

2.29.1 : All kinds of soil.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm.				
	Labour:				
0114	Beldars	Day	2.75	135.25	371.94
0101	Bhishti	Day	0.50	138.45	69.22
	TOTAL				441.16
	Add for water charge @ 1 %				4.41
	TOTAL				445.57
	Add for contractor's profit and over-heads @ 15%				66.84
	Cost of 100 sqm.				512.41
	Say				512.40

2.30 : Excavating holes upto 0.5 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 upto 1.5 m.

2.30.1 : All kinds of soil.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6 holes-				
	Earth work 6x0.50 = 3.0 cum.				
	Rate vide item no. 2.8.1	cum	3.00	103.40	310.20
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	1.00	13.52(B)
	TOTAL				323.72
	Add for water charges @ 1% on B				0.14(C)
	TOTAL				323.86
	Add for contractor's profit and over-heads @ 15%on (B+C)				2.05
	Cost of 6 holes				325.91
	Cost of 1 hole				54.32
	Say				54.30

2.30 : Excavating holes upto 0.5 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 upto 1.5 m.

2.30.2 : Ordinary rock

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6 holes-				
	Excavation -6x0.50 = 3.0 cum.				
	Rate vide item no. 2.9.1	cum	3.00	162.65	487.95
	Extra labour for filling and ramming				
9999	Sundries	L.S.	7.80	1.00	7.80(B)
	TOTAL				495.75
	Add for water charges @ 1% on B				0.08(C)
	TOTAL				495.83
	Add for contractor's profit and over-heads				1.18
	15% on B+C				
	Cost of 6 holes				497.01
	Cost of 1 hole				82.84
	Say				82.85

2.30 Excavating holes upto 0.5 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 upto 1.5 m.

2.30.3 Hard rock (requiring blasting)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6 holes				
	6x0.50 = 3.0 cum.				
	Rate vide item no. 2.9.2	cum	3.00	272.95	818.85
	Extra labour for filling and ramming				
9999	Sundries	L.S.	80.73	1.00	80.73(B)
	TOTAL				899.58
	Add for water charges @ 1 % on B				0.81(C)
	TOTAL				900.39
	Add for contractor's profit and over-heads@				12.23
	15% on B+C				
	Cost of 6 holes				912.62
	Cost of 1 hole				152.10
	Say				152.10

2.30 : Excavating holes upto 0.5 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 upto 1.5 m.

2.30.4 : Hard rock (blasting prohibited)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6 holes-				
	Excavation- 6x0.50 = 3.0cum.				
	Rate vide item no. 2.9.3	cum	3.00	332.45	997.35
	Extra labour for filling and ramming				
9999	Sundries	L.S.	80.73	1.00	80.73(B)
	TOTAL				1078.08

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charges @ 1 % on B				0.81(C)
	TOTAL				1078.89
	Add for contractor's profit and over-heads @ 15% on B+C				12.23
	Cost of 6 holes				1091.12
	Cost of 1 hole				181.85
	Saycum L.S.				181.85

Note :-

(I) Carriage of excavated material beyond the first 50m will be paid under carriage of materials" vide sub-head

(II) Carriage by animal and mechanical transport will be reckoned in terms of nearest km. distance of 0.5 km or more will be taken as 1 km and distance of less than 0.5 km ignored, However, when the total lead is less than 0.5 km it will not be ignored but paid for separately in successive stages of 50m subject to the conditions that the total rate worked out on these bases does not exceed the rate for initial lead of 1km.

2.31 : Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto 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	Beldars	Day	1.08	135.25	146.07
0115	Coolies	Day	0.60	135.25	81.15
	TOTAL				227.22
	Add 1 % for water charges				2.27
	TOTAL				229.49
	Add 15% for contractor's profit and overheads				34.42
	Cost of 100 sqm.				263.91
	Say				263.90

2.32 : Clearing grass and removal of the rubbish upto 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	Beldars	Day	0.60	135.25	81.15
0115	Coolies	Day	0.25	135.25	33.81
9999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				116.78
	Add 1% for water charges				1.17
	TOTAL				117.95
	Add 15% for contractor's profit and overheads				17.69
	Cost of 100 sqm.				135.64
	Say				135.65

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 upto and including 60 cm girth

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of tree of 15cm.				
	in. dia. Ht. = av. 3m				
	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	Beldars	Day	0.33	135.25	44.63
0115	Coolies	Day	0.17	135.25	22.99
9999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				70.35
	Add 1 % for water charges				0.70
	TOTAL				71.05
	Add 15% for contractor's profit and overheads				10.66
	Cost of one tree				81.71
	Say				81.70

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.

2.33.2 : Beyond 60 cm girth upto and including 120 cm girth

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of a tree-				
	of av. girth = 90cm				
	of av. dia. = 0.3m				
	and length = 5m				
	(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	Beldars	Day	1.50	135.25	202.88
0115	Coolies	Day	0.75	135.25	101.44
9,999	Sundries	L.S.	5.46	1.00	5.46
	TOTAL				309.78
	Add 1% for water charges				3.10
	TOTAL				312.88
	Add 15% for contractor's profit and overheads				46.93
	Cost of one tree				359.81
	Say				359.80

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.

2.33.3 : Beyond 120 cm girth upto and including 240 cm girth

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree- avg. girth = 180cm and avg. length = 7m (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	Beldars	Day	7.00	135.25	946.75
0115	Coolies	Day	3.50	135.25	473.38
9999	Sundries	L.S.	8.06	1.00	8.06
	TOTAL				1 428.19
	Add 1 % for water charges				14.28
	TOTAL				1 442.47
	Add 15% for contractor's profit and overheads				216.37
	Cost of one tree				1 658.84
	Say				1 658.85

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.

2.33.4 Above 240 cm girth

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a tree of average 300cm. girth and length 10m 3.142/4x1x1x10 = 7.86 cum 20% Branches = 1.57 cum. Total = 9.43 cum. Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions.				
0114	Beldars	Day	14.00	135.25	1893.50
0115	Coolies	Day	7.00	135.25	946.75
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				2 867.16
	Add 1% for water charges				28.67
	TOTAL				2 895.83
	Add 15% for contractor's profit and overheads				434.37
	Cost of one tree				3 330.20
	Say				3 330.20

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 of 100 litres				
7022	Chlorpyriphos E.C. 20% "	litre	100.00	150.00	15 000.00
2342	Carriage of chemical	quintal	1.00	5.32	5.32
	TOTAL				15 005.32

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				150.05
	TOTAL				15 155.37
	Add for contractor's profit and overheads @ 15%				2 273.31
	Cost for 100 litres				17 428.68
	Cost for 1 litre				174.29
	Say				174.30

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				
	Materials:				
	Chlorpyriphos 1% concentration = 10.0x0.30x7.5 = 22.5 litres				
7022	Chlorpyriphos 20% E.C. required 22.5/20 = 1.125 litres.	litre	1.125	to be supplied free of cost	0.00
	Labour				
0114	Beldars (for excavating channel) rodding in chemical spraying the emulssion and refilling the same	Day	0.33	135.25	44.63
9999	Sundries and rent of sprayer etc	L.S.	13.52	1.00	13.52
	TOTAL				58.15
	Add 1 % for water charges				0.58
	TOTAL				58.73
	Add for contractor's profit and overheads @ 15%				8.81
	Cost for 10 metres				67.54
	Cost for 1 metre				6.75
	Say				6.75

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

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres				
	Materials:				
7022	Chlorpyriphos 1% concentration = 10x2.25 = 22.5 litres	litre	1.125	to be supplied free of cost	0.000
	Chlorpyriphos 20% required = 22.5/20 = 1.125 litres				
	Labour:				
0114	Beldar (for drilling holes and injecting chemical)	Day	0.40	135.25	54.10

Code	Description	Unit	Quantity	Rate	Amount
9,999	Sundries and rent of a sprayer and mortar and making good the holes	L.S.	35.88	1.00	35.88
	TOTAL				89.98
	Add 1 % for water charges				0.90
	TOTAL				90.88
	Add for contractor's profit and overheads @ 15%				13.63
	Cost for 10 metres				104.51
	Cost for 1 metre				10.45
	Say				10.45

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

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. Materials: Chlorpyriphos 1% required 100x1 litre = 100 litres				
7022	Chlorpyriphos 20% E.C. = 100/20 = 5.0 litres	litre	5.00	to be supplied free of cost	0.00
	Labour: (For making holes & spraying)				
0114	Beldars	Day	2.00	135.25	270.50
0124	Mason IInd class	Day	0.50	141.60	70.80
9999	Sundries, rent of sprayer and mortar	L.S.	35.88	1.00	35.88
	TOTAL				377.18
	Add 1 % for water charges				3.77
	TOTAL				380.95
	Add for contractor's profit and overheads @ 15%				57.14
	Cost for 9 square metre				438.09
	Cost per square metre				48.68
	Say				48.70

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

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 Materials: No. of holes 10.0/0.30 = 33.33+1 = 34.33 holes Say 34 holes				

Code	Description	Unit	Quantity	Rate	Amount
	chlorpyriphos 1% concentration required = 34x1.0 = 34.00 litres Chlorpyriphos 20% E.C. required 34.00/20= 1.70 litres				
7022	Chlorpyriphos 20% concentrates	litre	1.70	to be supplied free of cost	0.00
	Labour:				
0114	Beldar (for making holes at 45 deg and spraying the emulsion)	Day	0.30	135.25	40.57
0124	Mason IInd class	Day	0.05	141.60	7.08
9999	Sundries, rent of pump etc.	L.S.	17.94	1.00	17.94
	TOTAL				65.59
	Add 1% for water charges				0.66
	TOTAL				66.25
	Add for contractor's profit and overheads @				9.94
	Cost for 10 metres				76.19
	Cost for 1 metre				7.62
	Say				7.60

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

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 6 mm 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 Materials: 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	litre	1.70	to be supplied free of cost	0.00
	Chlordane 20% E.C. required 34.00/20=1.70 litres Chlordane 20% E.C. required = 34/20 = 1.7				
0771	Kerosene oil = 34-1.7 = 32.30 litres	litre	32.3	19.00	613.70
	Labour:				
0112	Carpenter 2nd class (For making holes and plugging the same)	Day	0.20	141.60	28.32
0114	Beldar for injecting chemical	Day	0.20	135.25	27.05
9999	Sundries	L.S.	17.94	1.00	17.94
	TOTAL				687.01
	Add 1% for water charges				6.87
	TOTAL				693.88
	Add for contractor's profit and overheads @ 15%				104.08
	Cost for 10 metres				797.96
	Cost for 1 metre				79.80
	Say				79.80

2.36 : Deduct for disposed soil not levelled and neatly dressed (against Item No. 2.6,&2.7)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum.				
	Labour-				
0128	Mate	Day	0.08	138.45	11.08
0115	Beldar/Coolies	Day	0.80	135.25	108.20
	TOTAL				119.28
	Add 1 % for water charges				1.19
	TOTAL				120.47
	Add 15% for contractor's profit and overheads				18.07
	Cost of 10 cum.				138.54
	Cost of 1 cum.				13.85
	Say				13.85

SUB HEAD : 3.0

MORTARS

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.7175 cum. of cement = 1.02 tonne)				
0367	Cement	tonne	1.02	4 500.00	4 590.00
2,209	Carriage of Cement	tonne	1.02	47.29	48.24
0983	Fine sand	cum	0.7125	320.00	228.00
2261	Carriage of Fine sand	cum	0.7125	53.21	37.91
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.9	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				5 055.71
	Say				5 055.70

Notes:-

1. Cement required for cement mortar is 71.25%
2. 1 Cum of cement weight is 1.1286 Tonne

3.2 Cement Mortar 1 : 2 (1 cement : 1 fine sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.475 cum. of cement = 0.68 tonne)				
0367	Cement	tonne	0.68	4 500.00	3 060.00
2209	Carriage of Cement	tonne	0.68	47.29	32.16
0983	Fine sand	cum	0.95	320.00	304.00
2261	Carriage of fine sand	cum	0.95	53.21	50.55
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				3 598.27
	Say				3 598.25

Note:-

1. Cement required is 47.50%

3.3 Cement Mortar 1 : 3(1 cement : 3 fine sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.375 cum. of cement = 0.51 tonne)				
0367	Cement	tonne	0.51	4 500.00	2295.00
2209	Carriage of Cement	tonne	0.51	47.29	24.12
0983	Fine sand	cum	1.07	320.00	342.40
2261	Carriage of fine sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				2870.01
	Say				2870.00

Note:-

1. Cement required is 35.70%

3.4 Cement Mortar 1 : 4(1 cement : 4 fine sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.268 cum. of cement = 0.38 tonne)				
0367	Cement	tonne	0.38	4 500.00	1710.00
2209	Carriage of Cement	tonne	0.38	47.29	17.97
0983	Fine sand	cum	1.07	320.00	342.40
2261	Carriage of fine sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				2278.86
	Say				2278.85

Note:-

1. Cement required is 26.80%

3.5 Cement Mortar 1 : 5 (1 cement : 5 fine sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.214 cum. of cement = 0.31 tonne)				
0367	Cement	tonne	0.31	4 500.00	1395.00
2209	Carriage of Cement	tonne	0.31	47.29	14.66
0983	Fine sand	cum	1.07	320.00	342.40
2261	Carriage of fine sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				1960.55
	Say				1960.55

Note:-

1. Cement required is 21.40%

3.6 Cement Mortar 1 : 6 (1 cement : 6 fine sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.178 cum. of cement = 0.25 tonne)				
0367	Cement	tonne	0.25	4 500.00	1125.00
2209	Carriage of Cement	tonne	0.25	47.29	11.82
0983	Fine sand	cum	1.07	320.00	342.40
2261	Carriage of fine sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				1687.71
	Say				1687.70

Note:-

1. Cement required is 17.80%

3.7 Cement Mortar 1 : 2 (1 Cement : 2 Coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.476 cum. of cement = 0.68 tonne)				
0367	Cement	tonne	0.68	4 500.00	3060.00
2209	Carriage of Cement	tonne	0.68	47.29	32.16
0982	Coarse sand	cum	1.95	600.00	570.00
2203	Carriage of Coarse sand	cum	1.95	53.21	50.55
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				3864.27
	Say				3864.25

Note:-

1. Cement required is 47.50%

3.8 Cement Mortar 1 : 3 (1 Cement : 3 Coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.357 cum. of cement = 0.51 tonne)				
0367	Cement	tonne	0.51	4 500.00	2295.00
2209	Carriage of Cement	tonne	0.51	47.29	24.12
0982	Coarse sand	cum	1.07	600.00	642.00
2203	Carriage of Coarse sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				3169.61
	Say				3169.60

Note:-

1. Cement required is 35.70%

3.9 Cement Mortar 1 : 4 (1 cement : 4 coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.214 cum. of cement = 0.31 tonne)				
0367	Cement	tonne	0.38	4 500.00	1710.00
2209	Carriage of Cement	tonne	0.38	47.29	17.97
0982	Coarse sand	cum	1.07	600.00	642.00
2203	Carriage of Coarse sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				2578.46
	Say				2578.45

Note:-

1. Cement required is 26.80%

3.10 Cement Mortar 1 : 5 (1 cement : 5 coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.214cum. of cement = 0.31 tonne)				
0367	Cement	tonne	0.31	4 500.00	1395.00
2209	Carriage of Cement	tonne	0.31	47.29	14.66
0982	Coarse sand	cum	1.07	600.00	642.00
2203	Carriage of Coarse sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				2260.15
	Say				2260.15

Note:-

1. Cement required is 21.40%

3.11 Cement Mortar 1 : 6 (1 cement : 6 coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.178 cum. of cement = 0.25 tonne)				
0367	Cement	tonne	0.25	4 500.00	1125.00
2209	Carriage of Cement	tonne	0.25	47.29	11.82
0982	Coarse sand	cum	1.07	600.00	642.00
2203	Carriage of Coarse sand	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				1987.31
	Say				1987.30

Note:-

1. Cement required is 17.80%

3.12 Cement Mortar 1 : 2(1 cement : 2 stone dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.475 cum. of cement = 0.68 tonne)				
0367	Cement	tonne	0.68	4 500.00	3060.00
2209	Carriage of Cement	tonne	0.68	47.29	32.16
1159	Stone dust	cum	0.95	700.00	665.00
2267	Carriage of stone dust	cum	0.95	53.21	50.55
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				3959.27
	Say				3959.25

Note:-

1. Cement required is 47.50%

3.13 Cement Mortar 1 : 2(1 cement : 2 marble dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.475 cum. of cement = 0.68 tonne)				
0367	Cement	tonne	0.68	4 500.00	3060.00
2209	Carriage of Cement	tonne	0.68	47.29	32.16
0784	Marble dust	cum	0.95	800.00	760.00
2268	Carriage of Marble dust	cum	0.95	53.21	50.55
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				4054.27
	Say				4054.25

Note:-

1. Cement required is 47.50%

3.14 Cement Mortar 1 : 5(1 cement : 5marble dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.214 cum. of cement = 0.31 tonne)				
0367	Cement	tonne	0.31	4 500.00	1395.00
2,209	Carriage of Cement	tonne	0.31	47.29	14.66
0784	Marble dust	cum	1.07	800.00	856.00
2,268	Carriage of Marble dust	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9,999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9,999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				2474.15
	Say				2474.15

Note:-

1. Cement required is 21.40%

3.15 White Cement Mortar 1 : 2 (1 White cement : 2 marble dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.475 cum. of white cement = 0.68 tonne)				
0368	White Cement	tonne	0.68	9700.00	6596.00
2209	Carriage of White Cement	tonne	0.68	47.29	32.16
0784	Marble dust	cum	0.95	800.00	760.00
2268	Carriage of Marble dust	cum	0.95	53.21	50.55
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L..S	26.91	1.00	26.91
9999	Sundries	L..S	13.52	1.00	13.52
	Cost of 1.00 cum				7590.27
	Say				7590.25

Note:-

1. White Cement required is 47.50%

3.16 White Cement Mortar 1 : 3(1 white cement : 3 marble dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.357 cum. of white cement = 0.51 tonne)				
0368	White Cement	tonne	0.51	9700.00	4747.00
2209	Carriage of White Cement	tonne	0.51	47.29	24.12
0784	Marble dust	cum	1.07	800.00	856.00
2268	Carriage of Marble dust	cum	1.07	53.21	56.93
	LABOUR	Day	0.75	135.25	101.44
	For measuring, carrying, depositing and	Day	0.07	138.45	9.69
	mixing-	L.S.	26.91	1.00	26.91
0114	Beldar	L.S.	13.52	1.00	13.52
0101	Bhisti				6035.61
9999	Hire and running charges of mechanical mixer				6035.60
9999	Sundries				
	Cost of 1.00 cum				
	Say				

Note:-

1. White Cement required is 35.70%

3.17 White Cement Mortar 1 : 5 (1 white cement : 5 marble dust)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
	(0.214 cum. of white cement = 0.31 tonne)				
0368	White Cement	tonne	0.31	9700.00	3007.00
2209	Carriage of White Cement	tonne	0.31	47.29	14.66
0784	Marble dust	cum	1.07	800.00	856.00
2268	Carriage of Marble dust	cum	1.07	53.21	56.93
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.07	138.45	9.69
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Cost of 1.00 cum				4086.15
	Say				4086.15

Note:-

1. White Cement required is 21.40%

3.18 Mud mortar

Code	Discription	Unit	Quantity	Rate	Amount
	Detail of cost for one cum				
	MATERIALS				
0811	Mud (dry)	cum	1.08	20.00	21.60
	LABOUR				
0114	Beldar	Day	0.63	135.25	85.21
0101	Bhisti	Day	0.315	138.45	43.61
9999	Sundries	L.S.	6.45	1.00	6.45
	TOTAL				156.87
	Cost of one cum				156.87
	Say				156.85

SUB HEAD : 4.0

CONCRETE WORK

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
0295	Stone aggregate 20mm	cum	0.64	700.00	448.00
0297	Stone aggregate 10mm	cum	0.21	700.00	147.00
2202	Carriage of aggregate 20mm and 10 mm	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.425 cum)	tonne	0.61	4,500.00	2,745.00
2209	Carriage of cement	tunne	0.61	47.29	28.85
	Labour;				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S	14.30	1.00	14.30
	TOTAL				4,080.03
	Add 1% for water charges				40.80
	TOTAL				4,120.83
	Add 15 % for contractor's profit and overheads				618.12
	Cost of 1 cum.				4,738.95
	Say				4,738.95

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

4.1.2 1:1$^{1}/_{2}$:3 (1 Cement: 1$^{1}/_{2}$ coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0295	Stone aggregate 20mm	cum	0.57	700.00	399.00
0297	Stone aggregate 10mm	cum	0.28	700.00	196.00
2202	Carriage of aggregate	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.2833 cum)	tonne	0.40	4,500.00	1,800.00
2209	Carriage of cement	tonne	0.40	47.29	18.92
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0144	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	14.30	1.00	14.30
	TOTAL				3,125.10
	Add 1 % for water charges				31.25
	TOTAL,				3,156.35
	15 % for contractor's profit and				473.45
	overheads Cost of 1 cum.				3,629.80
	Say				3,629.80

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:
4.1.3 1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.67	700.00	469.00
0297	Stone aggregate 10 mm	cum	0.22	700.00	154.00
2202	Carriage of aggregate	cum	0.89	53.21	47.36
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.2833 cum)	tonne	0.32	4,500.00	1,440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S	14.30	1.00	14.30
	TOTAL				2,804.54
	Add 1 % for water charges				28.05
	TOTAL				2,832.56
	Add. 15% for contractor's profit and overheads				424.88
	Cost of 1 cum.				3,257.44
	Say				3,257.45

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:
4.1.4 1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.56-7.5% for voids) i.e. 0.04 = 0.52 cum)	cum	0.52	650.00	338.00
0295	Stone aggregate 20mm (one size)	cum	0.22	700.00	154.00
0297	Stone aggregate 10mm (one size)	cum	0.11	700.00	77.00
2206	Carriage of aggregate 40mm	cum	0.52	57.83	30.07
2202	Carriage of aggregate below 40mm size	cum	0.33	53.21	17.56
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.2225 cum)	tonne	0.32	4500.00	1440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.55	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				2750.00
	Add 1% for water charges				27.50
	TOTAL				2777.50
	Add 15% for contractor's profit and overheads				416.62
	Cost of 1 cum.				3194.12
	Say				3194.10

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:
4.1.5 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0295	Stone aggregate 20mm	cum	0.70	700.00	490.00
0297	Stone aggregate 10 mm	cum	0.24	700.00	168.00
2202	Carriage of aggregate	cum	0.94	53.21	50.02
0982	Coarse sand	cum	0.47	600.00	282.00
2203	Carriage of coarse sand	cum	0.47	53.21	25.01
0367	Cement (0.15674 cum)	tonne	0.22	4,500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	2.60	13.52
	TOTAL				2,402.99
	Add 1 % for water charges				24.03
	TOTAL,				2,427.02
	Add 15% for contractor's profit and overheads				364.05
	Cost of 1 cum.				2,791.07
	Say				2,791.05

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:
4.1.6 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20mm	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0982	Coarse sand	cum	0.47	600.00	282.00
2203	Carriage of coarse sand	cum	0.47	53.21	25.01
0367	Cement (0.15674 cum)	tonne	0.22	4,500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				2,335.83
	Add 1% for water charges				23.36
	TOTAL				2,359.19
	Add 15% for contractor's profit and overheads				353.88
	Cost of 1 cum.				2,713.07
	Say				2,713.05

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:
4.1.7 1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 40 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (one size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0982	Fine sand	cum	0.47	320.00	150.40
2261	Carriage of fine sand	cum	0.47	53.21	25.01
0367	Cement (0.15674 cum)	tonne	0.22	4,500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				2,204.23
	Add 1% for water charges				22.04
	TOTAL				2,226.27
	Add 15% for contractor's profit and overheads				333.94
	Cost of 1 cum.				2,560.21
	Say				2,560.20

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
All work upto plinth level:
4.1.8 1:4:8 (1 Cement: 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0982	Corase sand	cum	0.47	600.00	282.00
2261	Carriage of coarse sand	cum	0.47	53.21	25.01
0367	Cement (0.1175 cum)	tonne	0.17	4,500.00	765.00
2209	Carriage of cement	tonne	0.17	47.29	8.04
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				2,208.47
	Add 1% for water charges				21.08
	TOTAL				2,129.55
	Add 15% for contractor's profit and overheads				319.43
	Cost of 1 cum.				2,448.98
	Say				2,449.00

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (One size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0983	Fine sand	cum	0.47	320.00	150.40
2261	Carriage of fine sand	cum	0.47	53.21	25.01
0367	Cement (0.1175 cum)	tonne	0.17	4,500.00	765.00
2209	Carriage of cement	tonne	0.17	47.29	8.04
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				1,976.87
	Add 1% for water charges				19.77
	TOTAL				1,996.64
	Add 15% for contractor's profit and overheads				299.50
	Cost of 1 cum.				2,296.14
	Say				2,296.15

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (One size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0982	Coarse sand	cum	0.47	320.00	282.00
2203	Carriage of coarse sand	cum	0.47	53.21	25.01
0367	Cement (0.2225 cum)	tonne	0.13	4,500.00	585.00
2209	Carriage of cement	tonne	0.13	47.29	6.15
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				1,926.58
	Add 1% for water charges				19.27
	TOTAL				1,945.85
	Add 15% for contractor's profit and overheads				291.88
	Cost of 1 cum.				2,237.73
	Say				2,237.75

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (One size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0983	Fine sand	cum	0.47	320.00	150.40
2261	Carriage of fine sand	cum	0.47	53.21	25.01
0367	Cement (0.2225 cum)	tonne	0.13	4,500.00	585.00
2209	Carriage of cement	tonne	0.13	47.29	6.15
	Labour:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	8.97	1.00	8.97
	TOTAL				1,790.43
	Add 1% for water charges				17.90
	TOTAL				1,808.33
	Add 15% for contractor's profit and overheads				271.25
	Cost of 1 cum.				2,079.58
	Say				2,079.60

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

4.1.12 1:2:3$^{1}/_{2}$:9 (1 Ordinary Portland cement : 2 Fly ash : 3$^{1}/_{2}$ coarse sand : 9 graded stone aggregate 40 mm nominal

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cos tfor 1 cum.				
	Materials:				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05-0.65 cum)	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (one size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40 mm	cum	0.65	57.83	37.5
2202	Carriage of agregate 20 mm	cum	0.24	53.21	12.77
0982	Coarse sand	cum	0.37	600.00	222.00
2203	Carriage of coarse sand	cum	0.37	53.21	19.69
1980	Fly ash	cum	0.21	6.00	1.26
2262	Carriage of fly ash	cum	0.21	53.21	11.17
0367	Cement	tonne	0.17	4,500.00	765.00
2209	Carriage of cement	tonne	0.17	47.29	8.04
	LABOUR;				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	14.30	200.00	14.10
9999	Sundries	L.S.	1.00	14.30	14.30

Code	Discription	Unit	Quantity	Rate	Amount
	TOTAL				2,056.30
	Add 1% for water charges				20.56
	TOTAL				2,076.92
	Add 15% for contractor's profits and overheads				311.54
	Cost of 1 cum.				2,388.46
	Say				2,388.45

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
-All work upto plinth level:

4.1.13 1:2 1/2:4:11 (1 Ordinary Portland cement : $2^{1}/_{2}$ Fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
0293	Stone aggregate 40mm (one size) (0.70 cum-7.5% for voids i.e. 0.05 - 0.65 cum)	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (one size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20mm	cum	0.24	53.21	12.77
0982	Coarse sand	cum	0.34	600.00	204.00
2203	Carriage of coarse sand	cum	0.34	53.21	18.09
1980	Fly ash	cum	0.21	6.00	1.26
2262	Carriage of fly ash	cum	0.21	53.21	11.17
0367	Cement	tonne	0.13	4,500.00	585.00
2209	Carriage of cement	tonne	0.13	47.29	6.15
	LABOUR:				
0155	Mason	Day	0.10	146.55	14.66
0114	Beldar	Day	1.63	135.25	220.46
0101	Bhishti	Day	0.70	138.45	96.92
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	14.30	2.60	14.30
	TOTAL				1,854.87
	Add 1% for water charges				18.55
	TOTAL				1,873.42
	Add 15% for contractor's profit and overheads				281.01
	Cost of 1 cum.				2,154.43
	Say				2,154.45

4.1 Providing and laying cement concrete in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.64	700.00	448.00
0297	Stone aggregate 10 mm	cum	0.21	700.00	147.00
2202	Carriage of aggregate 20mm and 10 mm	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	700.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.425 cum)	tonne	0.61	4,500.00	2,745.00
2209	Carriage of cement	tonne	0.61	47.29	28.85
	Labour:				
0114	Beldar	Day	0.9	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	14.30	1.00	14.30
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				4,356.95
	Add 1 % for water charges				43.57
	TOTAL				4,400.52
	Add 15% for contractor's profit and overheads				660.08
	Cost of 1 cum.				5,060.60
	Say				5,060.60

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

4.2.2 1:1$^{1}/_{2}$:3 (1 cement: 1$^{1}/_{2}$ coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0295	20mm stone aggregate	cum	0.57	700.00	399.00
0297	Stone aggregate 10mm	cum	0.28	700.00	196.00
2202	Carriage of aggregate	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.2833 cum)	tonne	0.40	4,500.00	1,800.00
2209	Carriage of cement	tonne	0.40	47.29	18.92
	Labour:				
0114	Beldar	Day	0.90	135.25	121.72

Code	Discription	Unit	Quantity	Rate	Amount
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	14.30	1.00	14.30
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				3,402.02
	Add 1 % for water charges				34.02
	TOTAL				3,436.04
	Add 15% for contractor's profit and overheads				515.41
	Cost of 1 cum.				3,951.45
	Say				3,951.45

4.2 Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0295	Stone aggregate 20 mm	cum	0.67	700.00	469.00
0297	Stone aggregate 10 mm	cum	0.22	700.00	154.00
2202	Carriage of aggregate	cum	0.89	53.21	47.36
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.2833 cum)	tonne	0.32	4,500.00	1,440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0114	Beldar	Day	0.90	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	14.30	1.00	14.30
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				3,081.43
	Add 1 % for water charges				30.81
	TOTAL				3,112.24
	Add 15% for contractor's profit and overheads				466.84
	Cost of 1 cum.				3,579.08
	Say				3,579.10

4.2 Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0293	Stone aggregate 40 mm (one size) (0.56-7.5% for voids i.e. 0.04 = 0.52 cum)	cum	0.52	650.00	338.00
0295	Stone aggregate 20 mm (one zize)	cum	0.22	700.00	154.00
0297	Stone aggregate 10 mm (one size)	cum	0.11	700.00	77.00
2206	Carriage of aggregate 40 mm	cum	0.52	57.83	30.07
2202	Carriage of aggregate 20 mm and 10 mm	cum	0.33	53.21	17.56
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.2225 cum)	tonne	0.32	4,500.00	1,440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0114	Beldar	Day	0.9	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	13.52	1.00	13.52
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				3,026.92
	Add 1 % for water charges				30.27
	TOTAL				3,057.19
	Add 15% for contractor's profit and overheads				458.58
	Cost of 1 cum.				3,515.77
	Say				3,515.75

4.2 Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0295	Stone aggregate 20 mm	cum	0.70	700.00	490.00
0297	Stone aggregate	cum	0.24	700.00	168.00
2202	Carriage of aggregate	cum	0.94	53.21	50.02
0982	Coarse sand	cum	0.47	600.00	282.00
2203	Carrage of Coarse sand	cum	0.47	53.21	25.01
0367	Cement	tonne	0.22	4,500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				
0114	Beldar	Day	0.90	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	13.52	1.00	13.52
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				2,679.91
	Add 1 % for water charges				26.80
	TOTAL				2,706.71
	Add 15% for contractor's profit and overheads				406.01
	Cost of 1 cum.				3,112.72
	Say				3,112.70

4.2 Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0293	Stone aggregate 40 mm (one size) (0.70 cum 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm (One size)	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40 mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20 mm	cum	0.24	53.21	12.77
0982	Coarse sand	cum	0.47	600.00	282.00
2203	Carriage of coarse sand	cum	0.47	53.21	25.01
0367	Cement (0.15674 cum)	tonne	0.22	4500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				

Code	Discription	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.90	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	13.52	1.00	13.52
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				2,612.75
	Add 1 % for water charges				26.13
	TOTAL				2,638.88
	Add 15% for contractor's profit and overheads				395.83
	Cost of 1 cum.				3,034.71
	Say				3,034.70

4.2 Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, excluding the cost of centring, shuttering and finishing:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials:				
0293	Stone aggregate 40 mm(one size) (0.70 cum 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	650.00	422.50
0295	Stone aggregate 20 mm	cum	0.24	700.00	168.00
2206	Carriage of aggregate 40 mm	cum	0.65	57.83	37.59
2202	Carriage of aggregate 20 mm	cum	0.24	53.21	12.77
0983	Fine sand	cum	0.47	320.00	150.40
2261	Carriage of fine sand	cum	0.47	53.21	25.01
0367	Cement (0.15674 cum)	tonne	0.22	4,500.00	990.00
2209	Carriage of cement	tonne	0.22	47.29	10.40
	Labour:				
0114	Beldar	Day	0.90	135.25	121.72
0115	Coolie	Day	0.78	135.25	105.50
0101	Bhishti	Day	0.70	138.45	96.92
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason IInd class	Day	0.06	141.60	8.50
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Scaffolding	L.S.	114.40	1.00	114.40
9999	Sundries	L.S.	13.52	1.00	13.52
0115	(Extra labour for lifting.material upto floor level) Coolie (0.75x1.50)	Day	1.13	135.25	152.83
	TOTAL				2,481.15
	Add 1 % for water charges				24.81
	TOTAL				2,505.96
	Add 15% for contractor's profit and overheads				375.89
	Cost of 1 cum.				2,881.85
	Say				2,881.85

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

4.3.1 Foundations, footings, bases for columns.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for footing size 2.7mx2.7mxl.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 1250x500mm Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	980.00	333.20
7326	Corner angle (1.5m long) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	280.00	23.80
7327	100mm channel shoulders 2.5m long Qty taken for cost of using once = 8x0.85/40= 0.17	each	0.17	1,000.00	170.00
7328	Double clip (bridge clip) Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	75.00	25.50
7329	Single clip Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	60.00	10.20
7330	MS tube 40mm - 4x2.7m = 10.8m Qty taken “for cost of using once = 10.8x0.85/40 = 0.2295	metre	0.2295	225.00	51.64
9999	Assembly nuts & bolts	L.S	22.10	1.00	22.10
9999	Carriage	L.S	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	0.75	151.50	113.62
0114	Beldar	Day	1.50	135.25	202.88
9999	Shuttering oil	L.S	52.00	1.00	52.00
9999	Sundries	L.S	26.00	1.00	26.00
	TOTAL				1108.94
	Add 1% for water charges				11.09
	TOTAL]S-%%				1120.03
	Add-WMrfor contractor’s profit and overheads				168.00
	Cost for 10.8 sqm.				1288.03
	Cost per sqm.				119.26
	Say				119.25

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

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm. ——Materials: 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 (1.25x0.5) 2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	98.00	499.80
7327	100mm channel shoulder 2.5m long, 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1,000.00	170.00
7328	Bridge clip 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	75.00	38.25
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	60.00	15.30
7330	M.S. Tube 40mm 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	225.00	153.00
9999	Nut & Bolts	L.S	27.62	1.00	27.62
9999	Carriage	L.S	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	3.50	151.50	530.25
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S	78.00	1.00	78.00
9999	Sundries	L.S	52.00	1.00	52.00
	TOTAL				2,453.72
	Add 1 % for water charges				24.54
	TOTAL				2,478.26
	Add 15% for contractor's profit and overheads				371.74
	Cost for 15.8 sqm.				2,850.00
	Cost per sqm.				180.38
	Say				180.40

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

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

Code	Discription	Unit	Quantity	Rate	Amount
	Detail of cost for Size of column 450x450mm and 2.5m high Area of contact = 4x0.45x2.5 = 4.5 sqm.				

Code	Discription	Unit	Quantity	Rate	Amount
	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) Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	900.00	153.00
7332	Corner angle 2.5m long Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	275.00	23.38
7333	Column clamp (450-1070mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063	each	0.1063	1100.00	116.93
7334	Prop. 2m (2.0-3.5m) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	750.00	63.75
9999	Assembly nut & bolt	L.S	27.62	1.00	27.62
9999	Carriage	L.S	52.00	1.00	52.00
	Labour				
0116	Fitter Grade-I	Day	1.00	151.50	151.50
0114	Beldar	Day	2.00	135.25	270.50
9999	Shuttering oil	L.S	39.00	1.00	39.00
9999	Carriage	L.S	26.00	1.00	26.00
	TOTAL				923.68
	Add 1% for water charges				9.24
	TOTAL				932.92
	Add for contractor's profit and overheads @ 15%				139.94
	Cost for 4.5 sqm.				1,072.86
	Cost per sqm.				238.41
	Say				238.40

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

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

Code	Discription	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 1:2:4 (Rate as per item no 4.1.3 Cost for 6 cum. Cost per cum. Say	cum	6.00	3,257.45	19,544.70 19,544.70 3,257.45 3,257.45

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

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

Code	Discription	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 1:3:6 (Rate as per item no 4.1.5 Cost for 6 cum. Cost per cum. Say	cum	6.00	2,791.05	16,746.30 16,746.30 2,791.05 2,791.05

4.5 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 Cement: 3 fine sand)

4.5.1 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum. Materials : Cement concrete 1:2:4 (A) (Rate as per Item No. 4.2.3) Centering and shuttering (1) Mould (i) Plate 3mm thick- (2x1xO.15)+(2xO.15xO.2O) = 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. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = (B) 0.112x0.75/40 = 0.0021 qtl (Rate as per item no.10.1 S.H. 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	cum kg	0.45 0.21	3579.10 42.15	1610.60 8.85

Code	Discription	Unit	Quantity	Rate	Amount
	(C) Rate as per item no. 11.1.2 (S.H.: Flooring work) (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	296.2	29.62
	(D) Rate as per item no. 16.42 (Road work) Finishing 15x0.50 = 7.50sqm.	cum	0.0025	3,638.55	9.10
	(E) Rate as per item No. 13.16	sqm	7.50	62.15	466.13
	(G) Mortar and labour for hoisting and finishing	L.S	36.30	1.00	36.30
	TOTAL				2,160.59
	(H) Add for water charges @ 1 % on (G)				0.36
	TOTAL				2,160.95
	Add for contractor's profit and overheads @ 15%on(G+H)				5.50
	Cost for 0.45 cum.				2,133.45
	Cost per cum.				4,814.33
	Say				4,814.35

4.5 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 Cement: 3 fine sand) on exposed surfaces complete.

4.5.2 1:3:6 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum. Materials : Cement concrete 1:3:6 (A) (Rate as per Item No. 4.2.5) of (S.H concrete work 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	cum	0.45	3112.700	1400.72

Code	Discription	Unit	Quantity	Rate	Amount
	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				
(B)	(Rate as per item no.10.1 S.H. steel work) 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	kg	0.210	42.15	8.85
(C)	Rate as per item no. 11.1.2 (SH: Flooring work) (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	sqm	0.10	296.20	29.62
(D)	Rate as per item no. 16.42 (Road work) Finishing 15x0.50 = 7.50sqm.	cum	0.0025	3,688.55	9.10
(E)	Rate as per item No. 13.16	sqm	7.50	62.15	466.13
(G)	Mortar and labour for hoisting and finishing	L.S	36.3	1.00	36.30
	TOTAL				1,950.71
(H)	Add for water charges @ 1 % on (G)				0.36
	TOTAL				1,951.07
	Add for contractor's profit and overheads @ 15%on(G+H)				5.50
	Cost for 0.45 cum.				1,956.57
	Cost per cum.				4,347.93
	Say				4,347.95

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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete.

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 25 no kerbs, 40x30x20cm				
	=25 no x 0.40m x 0.30m x 0.20m = 0.6 cum				
	Materials :				
	Cement concrete 1:2:4				
	(A) Rate as per Item Nono. 4.1.3	cum	0.60	3257.45	1954.47
	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				
	(B) (Rate as per item no. 10.1 S.H. steel work)	kg	0.1275	42.15	5.37
	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				
	(C) Rate as per item no. 11.1.2 S.H.: Flooring work.	kg	0.10	296.20	29.62
	(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				
	(D) (Rate as per item no. 16.42 (Road work)	cum	0.0025	3638.55	9.10
	Finishing				
	0.4(0.3+0.2+0.20)=0.28x25 = 7.0sqm.				
	(E) (Rate as per item no. 13.16)	sqm	7.00	62.15	435.05
9999	(G) Mortar and labour for finishing	L.S.	30.54	1.00	30.54
	TOTAL				2464.15
	(H) Add for water charges @ 1% on (G)				0.31
	TOTAL				2464.46
	Add for contractor's profit and overheads @ 15%on(G+H)				4.63
	Cost for 0.60 cum.				2469.09
	Cost per cum.				4113.15
	Say				4115.15

4.7 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete :

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 25 no blocks, 40x20x30cm				
	=25 no x 0.40m x 0.30m x 0.20m = 0.60 cum				
	Materials:				
	Cement concrete 1:2:4				
	Rate as per Item Nono. 4.1.3	cum	0.60	3257.45	1954.47
	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				
	(Rate as per item no. 10.1 S.H. steel work)	kg	0.1275	42.15	5.37
	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				
	Rate as per item no. 11.1.2 S.H.: Flooring work.	kg	0.10	296.20	29.62
	(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				
	(Rate as per item no. 16.42 (Road work)	cum	0.0025	3,638.55	9.10
	Mortar 1:3 for Fixing				
	(D) 0.202/100x25=0.051				
	Rate as per item no 3.8	cum	0.051	3,169.60	161.65
	Extra for Labour for fixing				
	(27/100x25=0.675 or 0.68)				
0115	(D) Coolie	day	0.68	135.25	91.97
	Labour for hoisting and setting in position				
0123	(D) Mason 1st class	day	0.60	151.50	90.90
0114	(D) Beldar	day	3.60	135.25	486.90
	Finishing				
	25x2(0.4x0.3) =6.0sqm.				
	(Rate as per item no. 13.16)	sqm	6.00	62.15	372.90
	TOTAL				320.88
	(E) Add for water charges @ 1 % on (D)				8.31
	TOTAL				3211.19
	Add for contractor's profit and overheads @ 15%on(D+E)				125.96
	Cost for 0.60 cum.				3,337.15
	Cost per cum.				5,561.62
	Say				5,561.90

4.7 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete :

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 25 no blocks, 40x20x30cm				
	=25 no x 0.40m x 0.30m x 0.20m = 0.6 cum				
	Materials:				
	(A) Cement concrete 1:3:6				
	(Rate as per Item no. 4.1.5)	cum	0.60	2791.05	1674.63
	(B) Mortar for Fixing cement mortar 1:3	cum	0.051	3169.60	161.65
	(Rate as per item no. 3.8)				
	Centering and shuttering				
	(1) Mould				
	(i) Plate 3mm thick.				
	0.28 sqm. @ 23.55kg/m2 = 6.59 kg.				
	(ii) Flat 10x5mm Handle				
	2x0.25 xO.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				
	(Rate as per item no.10.1 S.H. steel work)	kg	0.1275	42.15	5.37
	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				
	Rate as per item no. 11.1.2 S.H.: Flooring work.	sqm	0.10	296.20	29.62
	(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				
	(Rate as per item no. 16.42 (Road work)	cum	0.0025	3,638.55	9.10
	Finishing	sqm	6.00	62.15	372.90
	(Rate as per item no. 13.16				
	Extra Labour for lifting material upto floor V level				
	(C) Labour				
0115	Coolie	day	0.68	135.25	91.97
	(C) Labour for hoisting and setting in position				
0123	Mason 1st class	day	0.60	151.50	90.90
0114	Beldar	day	3.60	135.25	486.90
	TOTAL				2,923.04
	(D) Add for water charges @ 1 % on (B+C)				8.31
	TOTAL				2,931.35
	Add for contractor's profit and overheads @ 15% on (B+C+D)				125.96
	Cost for 0.60 cum.				3,057.31
	Cost per cum.				5, 095.52
	Say				5,095.50

4.8 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete :

4.8.1 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm 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 = 1mx0.5mx0.1m = 0.05cum				
	Materials:				
	Cement concrete 1:2:4				
	(A) Netqty = 0.05 [6x0.5x{2x1/2(0.05+7)}x0.074] = 0.023cum	cum	0.023	3,257.45	74.92
	(Rate as per Item no. 4.1.3)				
9999	(B) Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.91	1.00	26.91
	Extra for Finishing	sqm	1.00	62.15	62.15
	(Rate as per item no.13.16)				
	(C) Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.056	135.25	7.57
	(C) Labour for hoisting and setting in position				
0123	Mason 1st class	day	0.05	151.50	7.58
371	Beldar	day	0.30	135.25	40.57
	(D) Mortar for fixing cement mortar 1:2	cum	0.002	3,864.25	7.73
	(Rate as per item No. 3.7)				
	TOTAL				227.43
	(E)) Add for water charges @ 1% on (B+C+D)				0.90
	TOTAL				228.33
	Add for contractor's profit and overheads @ 15% on (B+C+D+E)				13.69
	Cost for 0.05 cum.				242.02
	Cost per cum.				4,840.40
	Say				4,840.40

4.8 Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete :

4.8.2 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20mm 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				
	Materials :				
	Cement concrete 1:3:6				
	(A) Net qty = 0.05 [6x0.5x{2xl/2(0.05+7)}x6.074] = 0.023cum	cum	0.023	2 91.05	64.19
	(Rate as per Item no. 4.1.5)				
	(B) Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.91	1.00	26.91

Code	Description	Unit	Quantity	Rate	Amount
	(C) Extra for Finishing (Rate as per item no. 13.16)	sqm	1.00	62.15	62.15
	(D) Extra Labour for lifting material upto floor V level				
	Coolie	day	0.056	135.25	7.57
	(D) Labour for hoisting and setting in position				
	Mason 1 st class	day	0.05	151.50	7.58
	Beldar	day	0.3	135.25	40.57
	(E) Mortar for fixing cement mortar 1:2 (Rate as per item No. 3.7)	cum	0.002	3,864.25	7.73
	TOTAL				216.70
	Add for water charges @ 1% on (B+D+E)				0.90
	TOTAL				217.70
	Add for contractor's profit and overheads @ 15% on(B+D+E+F)				13.69
	Cost for 0.05 cum.				231.29
	Cost per cum.				4,625.80
	Say				4,625.80

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 150xl50x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including necessary excavation of size 250x250x450mm^deep for the same in bitumen/concrete pavement at specified spacing.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one bollard Materials : ement concrete 1:2:4				
	p/4x0.125x0.60 = .007cum Rate as per Item no. 5.1.3 SH : RCC)	cum	0.007	3 359.60	23.52
	Centering and shuttering 3.14x(0.125)x0.60 = 0.24 sqm (Rate as per Item no. 5.9.1 SH : RCC)	sqm	0.24	119.25	28.62
	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)x23.55 =0.53 kg =3.68 kg (Rate as per Item no. 10.1 SH : Steel work)	kg	3.68	42.15	155.11
	Excavation 0.25x0.25x0.45 = 0.03 cum (Rate as per Item no. 2.8.1 SH : Earth work)	cum	0.03	103.40	3.10
	Cement concrete 1:3:6 (Rate as per Item no. 4.1.5 SH : Cement concrete)	cum	0.03	2 791.05	83.73
	6 mm rendering (1:3) (0.24+0.01) = 0.25 sqm (Rate as per Item no.5.53 : RCC)	sqm	0.25	62.15	15.54
	Carriage and fixing charges	L.S.	13.00	1.00	13.00 (A)
	TOTAL				322.62
	Add for water charges @ 1 % on (A)				0.13 (B)
	TOTAL				322.75
	Add for contractor's profit and overheads @ 15% on (A+B)				1.97
	Cost for one bollard				324.72
	Say				324.70

4.10 Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm 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				
	Rate for Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	0.40	3 257.45	1 302.98
	(As per item no 4.1.3)				
	Add Dedut for diffence of cost between 20mm Size and 12.5mm size	cum	0.67	0.00	0.00
	Add for delay:				
0123	(A) Mason 1st class	day	0.40	151.50	60.60
0124	(A) Mason 2nd class	day	0.40	141.60	56.64
9999	(A) Sundries (Form work etc.)	L.S.	1.95	1.00	1.95
	TOTAL				1,422.17
	(B) Add for water charges @ 1% on (A)				1.19
	TOTAL				1,423.36
	Add for contractor's profit and overheads @ 10% on (A+B)				18.06
	Cost for 10 sqm				1,441.42
	Cost for 1 sqm				144.14
	Say				144.15

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials :				
	Cement concrete 1:2:4 = 10x0.05 = 0.50 cum	cum	0.50	3,257.45	1 628.72
	(Rate as per item no. 4.1.3)				
	Add for delay :				
0123	(A) Mason 1st class	day	0.40	151.50	60.60
0124	(A) Mason 2nd class	day	0.40	141.60	56.64
9999	(A) Sundries (Form work etc.)	L.S.	13.52	1.00	13.52
	TOTAL				1,759.48
	(B) Add for water charges @ 1 % on 'A'				1.31
	TOTAL				1,760.79
	Add for contractor's profit and overheads @ 15% on 'A'+'B'				19.81
	Cost for 10 sqm.				1,780.60
	Cost of 1 sqm.				178.06
	Say				178.05

4.12 Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for per bag of 50kg. of cement				
	Materials :				
1213	Approved water proofing'materials according to the recommended proportions	kg	1.00	20.00	20.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of water proofing material and labour for mixing etc.	L.S.	3.64	1.00	3.64
	TOTAL				23.64
	Add for water charges @ 1%				0.24
	TOTAL				23.88
	Add for contractor's profit and overheads @ 15%				3.58
	Cost per bag of cement of 50kg.				27.46
	Say				27.45

4.13 Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg 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 10sqm.				
	Materials:				
0309	Paving Bitumen S-90	tonne	0.017	22 500.00	382.50
0771	Kerosene oil	Litre	1.23	19.00	23.37
0370	Fuel (steam coal) for heating	quintal	0.035	300.00	10.50
2211	Carriage of Bitumen	tonne	0.017	53.21	0.90
	Labour:				
0114	Cleaning surface and applying kerosene oil Beldar	Day	0.12	135.25	16.23
0115	Heating the material-Beldar	Day	0.07	135.25	9.47
0131	Spreading hot tar over damp proof course-Painter	Day	0.20	141.60	28.32
9999	Sundries (Carriage of kerosene, steam coal, brushes, T&P etc.)	L.S.	33.15	1.00	33.15
	TOTAL				504.44
	Add 1 % for water charges				5.04
	TOTAL				509.48
	Add 15% for contractor's profit and overheads				76.42
	Cost for 10 sqm.				585.90
	Cost of 1 sqm.				58.59
	Say				58.60

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 per cum.				
	Extra labour element required for lifting of materials (0.75x2.00 = 1.50)				
0115	Coolie	Day	1.50	135.25	202.88
	TOTAL				202.88
	Add 1% for water charges				2.03
	TOTAL				204.91
	Add 15% for contractor's profit and overheads				30.74
	Cost for 1 cum.				235.65
	Say				235.65

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.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for depth of water 0.30 m. Quantity of concrete = 14 cum. pumping hours = 3 hrs. or 0.75 day.				
0011	Cost of pumping water with 3636.8 litres per hour capacity pump	Day	0.375	300.00	112.50
0114	Beldar for cleaning slush	Day	4.00	135.25	541.00
	TOTAL				653.50
	Add 1% for water charges				6.54
	TOTAL				660.04
	Add for contractor's profit and overheads @ 15%				99.01
	Cost of 14cum. per 0.30 m depth				759.05
	Cost of cum. per m depth				180.73
	Say				180.75

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 1st class	Day	0.02	151.50	3.03
0124	Mason 2nd class	Day	0.02	141.60	2.83
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	0.15	135.25	20.29
	TOTAL				59.96
	Add 1% for water charges				0.60
	TOTAL				60.56
	Add for contractor's profit and overheads 15%				9.08
	Cost for 1 cum.				69.64
	Say				69.65

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

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials				
0287	Brick aggregate 40 mm size	cum	0.75	360.00	270.00
2260	Carriage of brick aggregate	cum	0.75	57.83	43.37
0983	Fine sand 60 cu.dm. per 10 sqm	cum	0.06	320.00	19.20
2261	Carriage of fine sand	cum	0.06	53.21	3.19
	Dressing the gound including cutting and filling upto 15cm				
0114	Beldar	Day	0.16	135.25	21.64
0115	Coolie	Day	0.11	135.25	14.88
	Cement concrete 1:3:6 Qty. of cement concrete 1:3:6 on 10 sqm. area = 0.5cum.				
	Materials (for C.C 1:3:6)				

Code	Description	Unit	Quantity	Rate	Amount
0295	Stone aggregate 20 mm nominal size	cum	0.35	700.00	245.00
0297	Stone aggregate 10 mm nominal size	cum	0.12	700.00	84.00
2202	Carriage of stone aggregate	cum	0.47	53.21	25.01
0982	Coarse sand	cum	0.23	600.00	138.00
2203	Carriage of coarse sand	cum	0.23	53.21	12.24
0367	Cement	tonne	0.11	4,500.00	495.00
2209	Carriage of cement	tonne	0.11	47.29	5.20
	Labour (for C.C 1:3:6)				
0114	Beldar	Day	1.00	135.25	135.25
0123	Mason 1st class	Day	0.05	151.50	7.58
0101	Bhisti	Day	0.33	138.45	45.69
9999	Hire and runing charges of mechanical mixer	L.S.	13.39	1.00	13.39
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour				
0 155	Mason	Day	0.27	146.55	39.57
5114	Beldar	Day	1.08	135.25	146.07
6115	Coolie	Day	1.08	135.25	146.07
	TOTAL				1,917.11
	Add 1% for water charges				19.17
	TOTAL				1,936.28
	Add 15% for contractor’s profit and overheads				290.44
	Cost of 10.00 sqm				2,226.72
	Cost of 1.00 sqm				222.67
	Say				222.65

SUB HEAD : 5.0

REINFORCED CEMENT CONCRETE

5.1 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto 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.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.64	700.00	448.00
0297	Stone aggregate 10mm	cum	0.21	700.00	147.00
2202	Carriage of aggregate 20mm and 10mm	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.425 cum)	tonne	0.61	4500.00	2745.00
2209	Carriage of cement	tonne	0.61	47.29	28.85
	Labour:				
0155	Mason	Day	0.17	146.55	24.91
0114	Beldar	Day	2.00	135.25	270.50
0101	Bhishti	Day	138.45	0.90	124.60
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	14.30	1.00	14.30
	TOTAL				4168.00
	Add 1% for water charges				41.68
	TOTAL				4209.68
	Add 15% for contractor's profit and overheads				631.45
	Cost of 1 cum.				4841.13
	Say				4841.15

5.1 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :

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.				
	Materials :				
0295	20mm stone aggregate	cum	0.57	700.00	399.00
0297	10mm stone aggregate	cum	0.28	700.00	196.00
2202	Carriage of aggregate	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of coarse sand	cum	0.425	53.21	22.61
0367	Cement (0.2833 cum)	tonne	0.40	4500.00	1800.00
2209	Carriage of cement	tonne	0.40	47.29	18.92
	Labour:				
0155	Mason	Day	0.17	146.55	24.91
0114	Beldar	Day	2.00	135.25	270.50
0101	Bhishti	Day	0.9 0	138.45	124.60
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	14.30	1.00	14.30
	TOTAL				3213.07
	Add 1% for water charges				32.13
	TOTAL				3245.20
	Add 15% for contractor's profit and overheads				486.78
	Cost of 1 cum.				3731.98
	Say				3732.00

5.1 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :

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.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.67	700.00	469.00
0297	Stone aggregate 10mm	cum	0.22	700.00	154.00
2202	Carriage of aggregate	cum	0.89	53.21	47.36
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.2225 cum)	tonne	0.32	4500.00	1440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0155	Mason	Day	0.17	146.55	24.91
0114	Beldar	Day	2.00	135.25	270.50
0101	Bhishti	Day	0.90	138.45	124.60
0002	Mixer	Day	0.07	400.00	28.00
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	14.30	1.00	14.30
	TOTAL				2892.48
	Add 1% for water charges				28.92
	TOTAL				2921.40
	Add 15% for contractor's profit and overheads				438.21
	Cost of 1 cum.				3359.61
	Say				3359.60

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. upto floor five level excluding cost of centring, 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 counterfost 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 counterfost - 2x1/2x4.4x1.5x0.2 = 1.32 cum. = 9.18 cum.				
	Materials:				
0295	Stone aggregate 20mm	cum	5.8752	700.00	4 112.64
0297	Stone aggregate 10mm	cum	1.9278	700.00	1 349.46
2202	Carriage of aggregate 20mm and 10mm	cum	7.803	53.21	415.20
0982	Coarse sand	cum	3.9015	600.00	2340.90
2203	Carriage of coarse sand	cum	3.9015	53.21	207.60
0367	Cement (0.425/ cum)	tonne	5.5998	4500.00	25199.10
2209	Carriage of cement	tonne	5.5998	47.29	264.81
	Labour:				
0114	Beldar	Day	11.29	135.25	1526.97

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	7.53	135.25	1 018.43
0101	Bhishti	Day	8.26	138.45	1 143.60
0123	Mason 1st class	Day	0.92	151.50	139.38
0124	Mason 2nd class	Day	0.92	141.60	130.27
0002	Mixer	Day	0.64	400.00	256.00
0012	Vibrator	Day	0.64	200.00	128.00
9999	Sundries	L.S.	131.82	1.00	131.82
9999	Scaffolding	L.S.	420.03	1.00	420.03
0115	Extra labour for lifting of material upto floor V level: Coolie (0.75x9.18x2.5)	Day	17.20	135.25	2326.30
	TOTAL				41110.51
	Add 1 % for water charges				411.11
	TOTAL				41521.62
	Add for contractor's profit and overheads @1 15%				6 228.24
	Cost for 9.18 cum.				47749.86
	Cost for 1 cum.				5201.51
	Say				5 201.50

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. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement:

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.				
	Materials :				
0295	20mm stone aggregate	cum	5.2326	700.00	3 662.82
0297	10mm stone aggregate	cum	2.5704	700.00	1 799.28
2202	Carriage of aggregate	cum	7.803	53.21	415.20
0982	Coarse sand	cum	3.9015	600.00	2340.90
2203	Carriage of coarse sand	cum	3.9015	53.21	207.60
0367	Cement (0.2833 cum)	tonne	3.672	4500.00	16 524.00
2209	Carriage of cement	tonne	3.672	47.29	173.65
	Labour:				
0114	Beldar	Day	11.29	135.25	1 526.97
0115	Coolie	Day	7.53	135.25	1 018.43
0101	Bhishti	Day	8.26	138.45	1 143.60
0123	Mason 1st class	Day	0.92	151.50	139.38
0124	Mason 2nd class	Day	0.92	141.60	130.27
0002	Mixer	Day	0.64	400.00	256.00
0012	Vibrator	Day	0.64	200.00	128.00
9999	Sundries	L.S.	131.82	1.00	131.82
9999	Scaffolding	L.S.	420.03	1.00	420.03
0115	Extra labour for lifting of material upto floor V level: Coolie (0.75x9.18x2.5)	Day	17.20	135.25	2326.30
	TOTAL				32 344.25
	Add 1% for water charges				323.44
	TOTAL				32 667.69
	Add for contractor's profit and overheads @ 15 %				4900.15
	Cost for 9.18 cum.				37 567.84
	Cost for 1 cum.				4092.36
	Say				4092.35

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. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement:

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.				
	Materials :				
0295	Stone aggregate 20mm	cum	6.1506	700.00	4 305.42
0297	Stone aggregate 10mm	cum	2.0196	700.00	1 413.72
2202	Carriage of aggregate	cum	8.1702	53.21	434.74
0982	Coarse sand	cum	4.0851	600.00	2 451.06
2203	Carriage of coarse sand	cum	4.0851	53.21	217.37
0367	Cement (0.02225/cum)	tonne	2.9376	4500.00	13 219.20
2209	Carriage of cement	tonne	2.9376	47.29	138.92
	Labour:				
0114	Beldar	Day	11.29	135.25	1526.97
0115	Coolie	Day	7.53	135.25	1 018.43
0101	Bhishti	Day	8.26	138.45	1 143.60
0123	Mason 1 st class	Day	0.92	151.50	139.38
0124	Mason 2nd class	Day	0.92	141.60	130.27
0002	Mixer	Day	0.64	400.00	256.00
0012	Vibrator	Day	0.64	200.00	128.00
9999	Sundries	L.S.	131.82	1.00	131.82
9999	Scaffolding	L.S.	420.03	1.00	420.03
0115	Extra labour for lifting of material upto floor V level: Coolie (0.75x9.18x2.5)	Day	17.20	135.25	2326.30
	TOTAL				29 401.23
	Add 1 % for water charges				294.01
	TOTAL				29 695.24
	Add for contractor's profit and overheads @ 15%				4454.29
	Cost for 9.18 cum.				34 149.53
	Cost for 1 cum.				3 719.99
	Say				3720.00

5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, 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.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.67	700.00	469.00
0297	Stone aggregate 10mm	cum	0.22	700.00	154.00
2202	Carriage of aggregate	cum	0.89	53.21	47.36
0982	Coarse sand	cum	0.445	600.00	267.00
2203	Carriage of coarse sand	cum	0.445	53.21	23.68
0367	Cement (0.02225/ cum)	tonne	0.32	4500.00	1440.00
2209	Carriage of cement	tonne	0.32	47.29	15.13
	Labour:				
0155	Mason	Day	0.24	146.55	35.17
0114	Beldar	Day	2.75	135.25	371.94

Code	Description	Unit	Quantity	Rate	Amount
0101	Bhishti	Day	0.90	138.45	124.60
0002	Mixer	Day	0.08	400.00	32.00
0012	Vibrator	Day	0.08	200.00	16.00
9999	Sundries	L.S.	14.30	1.00	14.30
	Extra labour for lifting material upto floor V level:				
0115	Coolie (1.5x0.75)	Day	1.13	135.25	152.83
	TOTAL				3163.01
	Add 1% for water charges				31.63
	TOTAL				3194.64
	Add for contractor's- profit and overheads @ 15%				479.20
	Cost for 1 cum.				3 673.84
	Say				3673.85

5.4 Providing and laying upto floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centring, 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.				
	(A) Materials: Cement concrete 1:2:4 (Rate as per item no 4.4.1)	cum	1.00	3257.45	3257.45
	Labour:				
	Extra labour for laying CC in RCC work :				
0114	(B) Beldar	Day	0.10	135.25	13.52
0101	(B) Bhishti	Day	0.20	138.45	27.69
0123	(B) Mason 1st class	Day	0.04	151.50	6.06
0124	(B) Mason 2nd class	Day	0.04	141.60	5.66
0128	(B) Mate	Day	0.04	138.45	5.54
0115	(B) Extra labour for lifting material upto floor V level: Coolie (1.5x0.75)	Day	1.13	135.25	152.83
	TOTAL				3468.75
	(C) Add 1 % for water charges on (B)				2.11
	TOTAL				3470.86
	Add for contractor's profit and overheads @ 15% on (B+C)				32.01
	Cost for 1 cum.				3502.87
	Say				3502.85

5.5 Reinforced cement concrete work in arches, arch ribs, domes, vaults, shells, folded plate and roofs having slope more than 15° upto floor five level excluding the cost of centring, 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 semicircular arch 6m clear span and 9m long and 30cm thick.				
	Cement concrete 1:2:4				
	= 1x0.50x3.14x6.30x9.00x0.30 = 26.73cum.				
	Details of cost for 26.73 cum.				
	Material				
295	Stone aggregate 20mm	cum	17.9091	700.00	12536.37
0297	Stone aggregate 10mm	cum	5.8806	700.00	4116.42
2202	Carriage of aggregate	cum	23.7897	53.21	1265.85

Code	Description	Unit	Quantity	Rate	Amount
0982	Coarse sand	cum	11.8948	600.00	7136.88
2203	Carriage of coarse sand	cum	11.8948	53.21	632.92
0367	Cement (0.02225/ cum)	tonne	8.5536	4500.00	38491.20
2209	Carriage of cement	tonne	8.5536	47.29	404.50
	Labour:				
0155	Mason	Day	2.673	146.55	391.73
0114	Beldar	Day	45.57	135.25	6163.34
0101	Bhishti	Day	18.711	138.45	2590.54
0002	Mixer	Day	1.8711	400.00	748.44
0012	Vibrator	Day	1.8711	200.00	374.22
9999	Sundries	L.S.	401.89	1.00	401.89
	Extra for laying CC over curved surfaces				
0123	Mason 1st class	Day	5.00	151.50	757.50
0124	Mason 2nd class	Day	5.00	141.60	708.00
0101	Bhishti	Day	1.50	138.45	207.68
0115	Coolie	Day	4.50	135.25	608.62
	Extra labour for lifting material upto floor V level: Coolie (1.50x0.75x26.73)	Day	30.07	135.25	4066.97
	TOTAL				81603.07
	Add 1% for water charges				816.03
	TOTAL				82 419.10
	Add15% for contractor's profit and overheads @				12 362.86
	Cost for 26.73 cum.				94 781.96
	Cost for 1 cum.				3545.90
	Say				3545.90

5.6 Reinforced cement concrete work in chimneys, shafts, upto floor five level excluding the cost of centring, 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.				
	Materials :				
	R.C.C. 1:2:4 in.chimneys & shafts				
	(A) Rate as per item no. 5.2.3	cum	1.00	3720.00	3720.00
	Extra labour involved for lifting materials :				
0115	(B) Coolie	Day	0.26	135.25	35.16
	TOTAL				3 755.16
	(C) Add 1% for water charges on B				0.35
	TOTAL				3 755.51
	Add 15%for contractor's profit and overheads @ on B+C			5.33	
	Cost for 1 cum.				3 760.84
	Say				3 760.85

5.7 Reinforced cement concrete work in well-steining excluding the cost of centring, 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.				
	Materials:				
	R.C.C. 1:2:4 in well steining				
	Rate as per item no 4.1.3	cum	1.00	3257.45	3257.45

Code	Description	Unit	Quantity	Rate	Amount
	Labour.				
	Extra labour involved :				
0115	(B) Coolie	Day	0.08	135.25	10.82
	TOTAL				3268.27
	(C) Add 1% for water charges on B				0.11
	TOTAL				3 268.38
	Add 15%for contractor's profit and overheads @ on B+C				1.64
	Cost for 1 cum.				3 270.02
	Say				3 270.00

5.8 Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm 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.				
	Cement Concrete 1:1.5.3				
	4x4x0.60x0.05 = 0.48 cum				
	2x3x0.06x0.05 = 0.18 cum				
	Total = 0.66 cum.				
	Materials:				
0295	Stone aggregate 20mm	cum	0.3762	700.00	263.34
0 297	Stone aggregate 10mm	cum	0.1848	700.00	129.36
2202	Carriage of aggregate	cum	0.561	53.21	29.85
0982	Coarse sand	cum	0.2805	600.00	168.30
2203	Carriage of coarse sand	cum	0.2805	53.21	14.93
0367	Cement (0.2833 cum)	tonne	0.264	4500.00	1188.00
2209	Carriage of cement	tonne	0.264	47.29	12.48
	Labour:				
0114	Beldar	Day	0.79	135.25	106.85
0115	Coolie	Day	0.56	135.25	75.74
0101	Bhishti	Day	0.6	138.45	83.07
0123	Mason 1 st class	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
9999	Scafolding	L.S.	30.16	1.00	30.16
9999	Sundries	L.S.	9.49	1.00	9.49
0002	Mixer	Day	0.05	400.00	20.00
0012	Vibrator	Day	0.05	200.00	10.00
0115	Extra for lifting materials upto floor five level : Coolie	Day	0.18	135.25	24.34
	Extra for restricted working in fins				
0123	Mason 1st class	Day	0.05	151.50	7.58
0124	Mason 2nd class	Day	0.05	141.60	7.08
0114	Beldar	Day	0.10	135.25	13.52
0101	Bhishti	Day	0.15	138.45	20.77
	TOTAL				2 232.45
	Add 1% for water charges				22.32
	TOTAL				2 254.77
	Add for contractor's profit and overheads @ 15%				338.22
	Cost for 0.66 cum.				2 592.99
	Cost for 1 cum.				3 928.77
	Say				3 928.75

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.1 Foundations, footings, bases of columns, etc. for mass concrete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for footing size 2.7mx2.7mx 1.00m Contact area = 10.8 sqm. Materials:– 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 1250x500mm Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	980.00	333.20
7326	Corner angle (1.5m long) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	280.00	23.80
7327	100mm channel shoulders 2.5m long Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1000.00	170.00
7328	Double clip (bridge clip) Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	75.00	25.50
7329	Single clip Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	60.00	10.20
7330	MS tube 40mm - 4x2.7m = 10.8m Qty taken for cost of using once = 10.8x0.85/40 = 0.2295	metre	0.2295	225.00	51.64
9999	Assembly nuts & bolts Qty taken for cost of using once = 1040x0.85/40 = 8.50	L.S.	22.10	1.00	22.10
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0 116	Fitter Grade-I	Day	0.75	151.50	113.62
0 114	Beldar	Day	1.50	135.25	202.88
9999	Shuttering oil	L.S.	52.00	1.00	52.00
9999	Sundries	L.S.	26.00	1.00	26.00
	TOTAL				1108.94
	Add 1 % for water charges				11.09
	TOTAL				1120.03
	Add 15% for contractor's profit and overheads				168.00
	Cost for 10.8 sqm.				1288.03
	Cost per sqm.				119.26
	Say				119.25

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.2 Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.

Code	Description	Unit	Quantity	Rate	Amount
	Details for 7.9m long and 1,00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm. Materials : 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 (1.25x0.5) 2x3x2x2 = 24Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	980.00	499.80
7327	100mm channel shoulder 2.5m long, 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1 000.00	170.00
7328	Bridge clip 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	75.00	38.25
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	60.00	15.30
7330	M.S. Tube 40mm 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	225.00	153.00
9999	Nut & Bolts Qty taken for cost of using once = 1300x0.85/40 = 27.62	L.S.	27.62	1.00	27.62
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	3.50	151.50	530.25
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S.	78.00	1.00	78.00
9999	Sundries	L.S.	52.00	1.00	52.00
	TOTAL				2453.72
	Add 1 % for water charges				24.54
	TOTAL				2 478.26
	Add 15% for contractor's profit and overheads				371.74
	Cost for 15.8 sqm.				2 850.00
	Cost per sqm.				180.38
	Say				180.40

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.3 Suspended floors, roofs, landings, balconies and access platform.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for a room				
	4.50x3 = 13.50 sqm, height 3.5 m				
	Materials :				
	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 = 433.2x0.85/40 = 9.2055 kg.				
	(X) Rate as per item no 10.1	kg	9.2055	42.15	388.01
7342	2. Adjustable span- ESOSI (2.35-3.40m)	each	0.1063	1 600.00	170.08
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	3. Adjustable telescopi prop 3m(2.02-3.75m)	each	0.1275	1 000.00	127.50
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	4. Assembly nut & bolts etc.	L.S.	22.10	1.00	22.10
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999-	Carriage	L.S.	130.00	1.00	130.00
	Labour:				
0116	Fitter grade-I	Day	3.00	151.50	454.50
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S.	78.00	1.00	78.00
9999	Sundries, paper tape etc	L.S.	49.70	1.00	50.02
	TOTAL				2231.71
	Add 1% for water charges except on 'X'				18.44
	TOTAL				2250.15
	Add for contractor's profit and overheads @ 15% except on 'X'				279.32
	Cost for 13.50 sqm.				2529.47
	Cost per sqm.				187.37
	Say				187.35

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.4 Shelves (Cast in situ)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for a room				
	4.50x3 =13.50 sqm, height 3.5 m				
	Materials:				
	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 = 433.2x0.85/40 = 9.2055 kg.				
	(X) Rate as per item no the 10.1	kg	9.2055	42.15	388.01
7342	2. Adjustable span- ESOSI (2.35-3.40m)	each	0.1063	1 600.00	170.08
	Qty taken for cost using once = 5x0.85/40 = 0.1063 "				
7343	3. Adjustable telescopi prop 3m(2.02-3.75m)	each	0.1275	1 000.00	127.50
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	4. Assembly nut & bolts etc.	L.S.	22.10	1.00	22.10
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	130.00	1.00	130.00
	Labour:				
0116	Fitter grade-I	Day	6.00	151.50	454.50
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S.	78.00	1.00	78.00
9999	Sundries,paper tape etc	L.S.	49.70	1.00	50.02
	'TOTAl				2231.71
	Add 1% for water charges except on 'X'				18.44
	TOTAL				2250.15
	Add for contractor's profit and overheads @ 15% except on 'X'				279.32
	Cost for 13.50 sqm.				2529.47
	Cost per sqm.				187.37
	Say				187.35

5.9 Centring and shuttering including strutting, propping etc. and remova of form for:
5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.

Code	Description	Unit	Quantity	Rate	Amount
	Consider 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 “ Materials : 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 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 wasdge 5% 0.96 kg. Total =20.19 Kg. Total weight of all plates 3x5x20.19 = 302.85 kg or 3.03 q’ Qty taken for cost of using once = 302.85 x 85/40 = 6.4356 kg.				
	(X) Rate as per item no 10.1	kg	6.4356	42.15	271.26
7343	(ii) Props 3m (adjustable telescopic 2.02 - 3.75m) Qty taken for cost of using once = 6x0.85/40 = 0.1275 m	each	0.1275	1 000.00	127.50
7344	(iii) Beam clamp 300-380 mm(450-1070mm) Qty taken for cost of using once = 5/0.85/40 = 0.1063 m	each set	0.1063	375.00	39.86
9999	(iv) Assembly nut & bolts etc. Qty taken for cost of using once = 1040x0.85/40 = 22.10	L.S.	22.10	1.00	22.10
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	1.25	151.50	189.38
0114	Beldar	Day	2.50	135.25	338.12
9999	Shuttering oil	L.S.	39.00	1.00	39.00
9999	Sundries, paper tape etc.	L.S.	24.39	1.00	24.61
	TOTAL				1129.53
	Add 1% for water charges except on ‘X’				8.59
	TOTAL				1138.42
	Add for contractor’s profit and overheads @ 15% except on ‘X’				130.07 1268.49
	Cost for 7.80 sqm.				162.63
	Cost per sqm.				162.65
	Say				

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for Size of column 450x450mm and 2.5m high Area of contact = 4x0.45x2.5 = 4.5 sqm. 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) x Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	900.00	153.00
7332	Corner angle 2.5m long Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	275.00	23.38
7333	Column clamp (450-1070mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063	each	0.1063	1100.00	116.93
7334	Prop. 2m(2.0-3.5m) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	750.00	63.75
9999	Assembly nut & bolt Qty taken for cost of using once = 1300x0.85/40 = 27.62	L.S.	27.62	1.00	27.62
9999	Carriage	L.S.	52.00	1.00	52.00
	Labour				
0 116	Fitter Grade-I	Day	1.00	151.50	151.50
0114	Beldar	Day	2.00	135.25	270.50
9999	Shuttering oil	L.S.	39.00	1.00	39.00
9999	Carriage	L.S.	26.00	1.00	26.00
	TOTAL				923.68
	Add 1% for water charges				9.24
	TOTAL				932.92
	Add for contractor's profit and overheads @ 15%				139.94
	Cost for 4.5 sqm.				1072.86
	Cost per sqm.				238.41
	Say				238.40

5.9 Centring and shuttering including strutting, propping etc and removal or form tor:
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 lm 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.				

Code	Description	Unit	Quantity	Rate	Amount
	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 dm3				
1198	Qty taken for cost using once = 231/8= 28.875 dm3 (ii) Batten 100mm x 75mm (2nd class kail wood in scantling) 4x1.30x0.100x0.075=0.039 cum = 39 dm3	10 cudm	28.875	178.00	513.98
1197	Qty taken for cost using once = 39/8 = 4.875 dm3 (iii) Safeda Bailies 125mm dia. 2x4x0.80 = 6.40m	10 cudm	4.875	160.00	78.00
0302	Qty taken for cost using once = 6.4/8 = 0.8 m Carriage of timber- Planks = 0.231 cum. Battens = 0.039 cum. Bailies 6.4x3.142/4x$(0.125)^2$ = 0.079cum. Total =0.349 cum.	metre	0.80	29.00	23.20
2204	Qty taken for cost using once = 0.349/8 = 0.04363 cum Labour: For assembling, erection, dismantling and cleaning	cum	0.04363	60.81	2.65
0112	Carpenter 2nd class	Day	1.75	141.60	247.80
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries	L.S.	16.12	1.00	16.12
	TOTAL				1017.00
	Add 1% for water charges				10.17
	TOTAL				1027.17
	Add 15% for contractor's profit and overheads				154.08
	Cost of 5.79 sqm.				1181.25
	Cost per sqm.				204.02
	Say				204.00

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.8 Spiral staircases (including landing).

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 6.28 sqm (For 10 steps) Treads 10x0.70x0.20(av.) = 1.40 sqm (Rate as per item no 5.9.5)	sqm	1.40	162.65	227.71
	Riser 2x 10x0.70x0.23 = 3.22 sqm (Rate as per item no 5.9.2)	sqm	3.22	180.40	580.89
	Newal Post (Column) 10x3.14x0.232 = 1.66 sqm (Rate as per item no 5.9.7)	sqm	1.66	204.00	338.64
	Cost of 6.28 sqm				1147.24
	Cost of 1 sqm				182.68
	Say				182.70

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.9 Arches, domes, vaults upto 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				
1197	Qty taken for cost using once = 2050/8 = 256.25 cudm Safeda Balli supports 12.5cm dia 7x4x3.6= 100.8m	10 cudm	256.25	160.00	4100.00
6302	Qty taken for cost using once = 100.8/8 = 12.6 in G.I. Plain sheet 20.37 sqm = 116kg. Or 1.16 quintal	metre	12.60	29.00	365.40
0992	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.-	quintal	0.145	3450.00	500.25
2204	Qty taken for cost using once = 3.29/8 = 0.4112 cum G.I. Sheet = 0.116 t	cum	0.4112	60.81	25.01
2302	Qty taken for cost using once = 0.116/8 = 0.0145 t Labour:	tonne	0.0145	47.29	0.69
0 112	Carpenter llnd class	Day	16.00	141.60	2 265.60
0114	Beldar	Day	13.00	135.25	1758.25
9999	Sundries	L.S.	11.70	1.00	11.70
	TOTAL				9026.90
	Add 1 % for water charges				90.27
	TOTAL				9117.17
	Add 15%for contractor's profit and overheads				1367.58
	Costof20.37sqm.				10 484.75
	Cost per sqm.				514.72
	Say				514.70

5.9 Centring and shuttering including strutting, propping etc. and removal of form for
5.9.10 Extra for arches, domes, vaults exceeding 6 m span

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost per sqm. Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m 2R-2=4+4 $\tan^{-1}(\frac{4}{3}) = 53.28°$ "2x53.2°= 106° Surface area =2x22/7x5x3.6x106/360=33.3lsqm. Arc=9.25m Material: Tie-2x8xO. 18x0.05 =0.144cum Struts-2x2.5x0.1x0.1 =0.050cum. Struts-2xl .77x0.1 xO. 1 =0.035cum. Ribs-6x 1.54x0.23x0.1 =0.213cum. Struts-2x 1.72x0.1 xO. 1 =0.034cum. Total=0.476cum. For four such frames =0.476x4= 1.904 cum. laggings-75x3.6x0.125x0.075=2.531cum. Tie-2x3.6xO.225xO.O38=O.O62cum. Brace-3x2x2.14x0.225x0.038=0.110cum Brace-3x4x3.8x0.225x0.038=0.390 cum Sleepers-4x3.6x0.20x0.15=0.432 cum Sleepers-2x4x3.6xO. 175x0.075=0.378 Vertical post-4x4x-3.6x0.15x0.15=1.296 " Total =7.103cum. or 7103 cudm				
1197	Qty taken l/8th of qty for cost using once = 7.103/8 = cum = 887.9 Cudm	10cudm	887.90	160.00	14206.40
2204	Carriage of wood Fittings: 3 way straps 50mmxl 0mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmxl0mm = 8 Nos. @0.25cm each = 2m = 18m	cum	0.8879	60.81	53.99
1225	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	quintal	0.0878	2900.00	254.62
1034	Bolts 160 Nos. 254 mm long 16mm dia.-160x.254x 1.58=64.21 kg=0.64q. s Qty taken l/8th of qty for cost using once = 0.64/8 = 0.08	quintal	0.08	4300.00	344.00
2302	Carriage of steel = 0.1342t Qty taken l/8th of qty for cost using once = 0.1342/8 = 0.01677 cum	tonne	0.0168	47.29	0.79
	Labour:				
0112	Carpenter 2nd class	Day	28.00	141.60	3964.80
0114	Beldar	Day	24.00	135.25	3246.00
9999	Sundries	L.S.	134.55	1.00	134.55
	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span				

Code	Description	Unit	Quantity	Rate	Amount
	(A) Rate as per item no 5.9.9	sqm	33.31	514.70	(-)17144.66
	TOTAL				5060.49
	Add 1% for water charges on all exept 'A'				222.05
	TOTAL				5282.54
	Add 15%for contractor's profit and overheads @ on all exept 'A'				3364.08
	cost of 33.31 sgm.				8646.62
	cost per sgm of soffit area				259.58
	Say				259.60

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.11 Chimneys and shafts

Code	Description	Unit	Quantity	Rate	Amount
	Details for 7.9m long and 1.00m high wall				
	Area of contact 2x7.9x1.0 = 15.8 sqm.				
	Materials :				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form Panel (1.25x0.5) 2x3x2x2 = 24 Nos.	each	0.51	980.00	499.80
	Qty taken for cost of using once = 24x0.85/40 = 0.51				
7327	100 mm channel shoulder 2.5m long, 4x2 = 8	each	0.17	1000.00	170.00
	Qty taken for cost of using once = 8x0.85/40= = 0.17				
7328	Bridge clip 2x6x2 = 24	each	0.51	75.00	38.25
	Qty taken for cost of using once = 24x0.85/40 = 0.51				
7329	Single clip 2x3x2 = 12	each	0.255	60.00	15.30
	Qty taken for cost of using once = 12x0.85/40 = 0.255				
7330	M.S. Tube 40mm 2x2x8m = 32m	metre	0.68	225.00	153.00
	Qty taken for cost of using once = 32x0.85/40 = 0.68				
9999	Nut & Bolts	L.S.	27.63	1.00	27.63
	Qty taken for cost of using once = 1300x0.85/40= 27.63				
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	3.50	151.50	530.25
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S.	78.00	1.00	78.00
9999	Sundries	L.S.	52.00	1.00	52.00
	TOTAL				2453.73
	Add 1 % for water charges				24.54
	TOTAL				2478.27
	Add 15% for contractor's profit and overheads				371.74
	Cost for 15.8 sqm.				2850.01
	Cost per sqm.				180.38
	Say				180.40

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.12 Well steining

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost 26.39 sqm. Surface area Outside area =22/7x4.40x1.00 - 13.82sqm. = 26.39 sqm. " Assuming that the timber will become unserviceable after being used 8 times Add for carriage, labour for erection and dismantling etc. @ l/6th of the cost of material Planks 38 mm (Seconti class kail wood) 26.39x0.038= 1.00cum. Wastage 20% = 0.20cum. = 1.20cum. or 1200 cudm.				
1198	Qty for cost using once = 1200 x (1/8+1/6) = 350 Cudm 2nd class kail wood battens Inside = 2x25x0.50x0.075x0.038 = 0.0712cum. Outside = 2x28x0.50x0.075x0.038 = 0.0798cum. = 0.1510cum. Wastage 5% = 0.0076 cum. = 0.1586cum. or 158.60 cudm	10 cudm	350	178.00	6230.00
1197	Qty for cost using once = 0.1586 x (1/8+1/6) = 46.26 cudm Safeda bailies 125mm dia. Inside: 25x1.00 = 25.00m Outside: 28x1.00 = 28.00m = 53.00m	10 cudm	46.26	160.00	740.16
0 302	Qty for cost using once = 53 x (1/8+1/6) = 15.46 m	metre	15.46	29.00	448.16
	TOTAL				7418.50
	Add 1% for water charges				74.18
	TOTAL				7492.68
	Add 15% for contractor's profit and overheads				1123.90
	Cost for 26.39sqm.				8616.58
	Cost per sqm.				326.51
	Say				326.50

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

Code	Description	Unit	Quantity	Rate	Amount
	horizontal fins all projecting 60cm from face of wall and 5 cm thick- i.e.4x4x1.215+2x3x0.65=23.90 sqm Materials : (i) Planks 2nd class kail wood 38mm thick- 4x4x1.25=20.00 23x0.65 =3.90 = 23.90 Wastage @ 5% = 1.20 = 25.10sqm. 25.10x0.038=.954 cum or 954 cudm				
1198	Qty for cost using once = 954/8 = 119.25 cudm (ii) Battens (2nd class kail wood)- 4x2x5x0.60x0.075x0.050=0.090 3x2x5x1.00x0.075x0.050=0.112 2x6x0.60x0.075x0.100=0.054 = 0.256 Cum. Wastage® 5% =0.013 cum = 0.269 cum= 269 cudm	10 cudm	119.25	178.00	2122.65
1197	Qty for cost using once = 269/8 = 33.625 cudm (iii) Safeda Bailies 125mm dia- 2x2x6x4.00 =96m Wastage @5% = 4.8m = 100.8 m	10 cudm	33.625	160.00	538.00
0302	Qty for cost using once = 100.8/8 = 12.6 m (iv) Carriage timber- Planks = 0.954 Battens = 0.269 Bailies 100.8x(.125)^2/4x3.142=1.238cum. = 2.461 cum	meter	12.60	29.00	365.40
2204	Qty for cost using once = 2.461/8 = 0.3076 cum Labour: For assembling, erection, dismantling and cleaning	cum	0.3076	60.81	18.71
0112	Carpenter 2nd class	Day	11.00	141.60	1557.60
0114	Beldar	Day	11.00	35.25	1487.75
9999	Sundries	L.S.	80.73	1.00	80.73
	TOTAL				6170.84
	Add 1% for water charges				61.71
	TOTAL				6232.55
	Add 15% for contractor's profit and overheads				934.88
	Cost for 25.10 sqm.				7167.43
	Cost per sqm.				285.56
	Say				285.55

5.9.14 Extra for shuttering in circular work sqm 20% of respective centring & shotting

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

5.9.15 Small lintels not exceeding 1.5m 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 2.7mx2.7mxl.00m Contact area = 10.8 sqm. 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 1250x500mm Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	980.00	333.20
7326	Corner angle (1.5m long) Qty taken for cost of using once = 4x0.85/40 = 0.085	each	0.085	280.00	23.80
7327	100mm channel shoulders 2.5m long Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1000.00	170.00
7328	Double clip (bridge clip) Qty taken for cost of using once = 16x0.85/40 = 0.34	each	0.34	75.00	25.50
7329	Single clip Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	60.00	10.20
7330	MS tube 40mm - 4x2.7m = 10.8m Qty taken for cost of using once = 10.8x0.85/40 =0.2295	metrer	0.2295	225.00	51.64
9999	Assembly nuts & bolts Qty taken for cost of using once = 1040x0.85/40 = 22.10	L.S.	22.10	1.00	22.10
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-I	Day	0.75	151.50	113.621
0114	Beldar	Day	1.50	135.25	202.88
9999	Shuttering oil	L.S.	52.00	1.00	52.00
9999	Sundries	L.S.	26.00	1.00	26.00
	TOTAL				1108.94
	Add 1% for water charges				11.09
	TOTAL				1120.03
	Add 15% for contractor's profit and overheads				168.00
	Cost for 10.8 sqm.				1288.03
	Cost per sqm.				119.26
	Say				119.25

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
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
	Under 20cms wide Consider a 3mx3m slab 15cms thick 12m edge Length Assuming that the timber will become unserviceable after being used 8 times. (i) Planks 30mm thick (2nd class Kail wood or equivalent local soft wood) 4x3x0.15x0.030=0.054cum				
1198	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	178.00	126.82
	(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=O.0054 (iv) Struts 16x0.25x0.075x0.075=0.0225 Total = 0.1479"' Wastage @5% =0.0074 Total = 0.1553 cum'= 155 cudm				
1197	Qty taken for cost ef using once = 155/8 = 19.375 cudm	10 cudm	19.375	160.00	310.00
	Carriage of timber Planks = 0.057 cum. Battens = 0.155 cum. Total = 0.212 cum.				
2204	Qty taken for cost of using once = 0.212/8 = 0.0265 cum	cum	0.0265	60.81	1.61
	Labour: For assembling erection dismantling & cleaning.				
0112	Carpenter Ilnd class	Day	0.81	141.60	114.70
0114	Mazdoor (Male)	Day	0.54	135.25	73.04
9999	Sundries	L.S.	5.20	1.00	5.20
	TOTAL				631.37
	Add 1% for water charges				6.31
	TOTAL				637.68
	Add 15% for contractor's profit and overheads				95.65
	Cost of 12 metres				733.33
	Cost of one meter				61.11
	Say				61.10

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.16 Edges of slabs and breaks in floors and walls.
5.9.16.2 Above 20 cm wide

Code	Description	Unit	Quantity	Rate	Amount
	Above 20cm wide Consider a 4mx4xslab 25cms thick 16 metre edge length Materials : (i) Planks 38mm thick 4x4x0.25x0.038 = 0.152 Wastage @ 5% = 0.008 Total = 0.160 cum. = 160 cudm				
1198	Qty taken for cost of using once = 160/8 = 20 cudm (ii) Battens 6x2x0.6^{0}x0.075x0.100=0.054 5x2x1.5x0.075x0.100=0.113 Total =0.167 Wastage @ 5% = 0.008 Total =0.175 cum. = 175 cudm	10 cudm	20	178.00	356.00
1197	Qty taken for cost of using once = 175/8 = 21.88 cudm Carriage of timber Planks = 0.16 cum. Battens = 0.175 cum. Total = 0.335 cum.	10 cudm	21.88	160.00	350.08
2204	Qty taken for cost of using once = 0.335/8 = 0.0419 cum Labour- For assembling erection dismantling & cleaning.	cum	0.0419	60.81	2.55
0112	Carpenter IInd class	Day	1.00	141.60	141.60
0114	Mazdoor (Male)	Day	0.75	135.25	101.44
9999	Sundries	L.S.	6.50	1.00	6.50
	TOTAL				958.17
	Add 1% for water charges				9.58
	TOTAL				967.75
	Add 15% for contractor's profit and overheads				145.16
	Cost of 4 sqm.				1 112.91
	Cost of 1 sqm.				278.23
	Say				278.25

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
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. Assuming that the timber will become unserviceable after being used 8 times. (I) Planking 30mm thick = 4sqm. Extra & Wastage 20% = 0.8 sqm. Total = 4.8 sqm. 4.8x0.038 = 0.182 cum = 182 cudm'				

Code	Description	Unit	Quantity	Rate	Amount
1198	Qty taken for cost using once = 182/8 = 22.75 cudm (ii) Battens-Joining to Planking 1x10x0.1x0.075 = 0.075 cum. From bottom shuttering 10xl.5x0.lx0.075 = 0.113 cum. Wales 10x0.4mx0.1x0.075 = 0.030 cum. Total = 0.218 cum = 218 cudm	10 cudm	22.75	178.00	404.95
1197	Qty taken for cost using once = 218/8 = 27.25 cudm (iii) Bailies 125 mm dia. Slant 10x0.3 =3.00 m ver. 6x3.5 = 21.00m Total = 24.00 m Wastage @ 5% = 1.20 m Total = 25.20 m	10 cudm	27.25	160.00	436.00
2447	Qty taken for cost using once = 25.2/8 = 3.15M Carriage: Planking = 0.188 cum. Battens & Wales = 0.218 cum. Bailies $25.2x22/7x(0.125)^2/4$ = 0.310 cum. Total = 0.710 cum.	metre	3.15	27.00	85.05
2204	Qty taken for cost using once = 0.71/8= 0.0888 cum Labour for assembling, erection, dismantling & cleaning	cum	0.0888	60.81	5.40
0112	Carpenter Ilnd class	Day	0.63	141.60	89.21
0114	Mazdoor (Male)	Day	0.63	135.25	85.21
9999	Sundries	L.S.	6.50	1.00	6.50
	TOTAL				1 112.32
	Add 1% for water charges				11.12
	TOTAL				1 123.44
	Add 15% for contractor's profit and overheads				168.52
	Cost of 4 sqm.				1 291.96
	Cost of 1 sqm.				322.99
	Say				323.00

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

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 M^2 Front 0.5x0.6 = 0.30 sqm. Bottom 0.5x1.21 = 0.605 sqm. Total = 2.525 sqm. Materials: Assuming that the timber will become unserviceable after being used 8 times.				

Code	Description	Unit	Quantity	Rate	Amount
	Timber IInd class kail wood 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.				
1198	Qty taken for cost using once = 107/8 = 13.375 cudm (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 Cubical contents 9.448x0.05x0.05 = 0.024 cum Wastage 5% = 0.0012 cum. Total = 0.0252 cum = 25.2 cudm	10 cudm	13.375	178.00	238.08
1197	Qty taken for cost using once = 25.2/8 = 3.15 cudm (iii) Bailies 125mm dia. 1x2.5 = 2.50m 1x2.65 = 2.65m Total = 5.15 m Wastage 5% = 0.26m Total =5.41 m	10 cudm	3.15	160.00	50.40
2447	Qty taken for cost using once = 5.41/8= 0.6763 m Carriage: Planks =0.107 cum. Battens = 0.0252 cum Bailies $5.41x22/7x(0.125)^2/4$ = 0.066 cum Total = 0.198 cum	metre	0.6763	27.00	18.26
2204	Qty taken for cost using once = 0.198/8 0.0248 cudm Labour for assembling, erection, dismantling & cleaning	cum	0.0248	60.81	1.51
0112	Carpenter IInd class	Day	0.8	141.60	113.28
0114	Mazdoor (Male)	Day	0.8	135.25	108.20
9999	Sundries	L.S.	7.15	1.00	7.15
	TOTAL				536.88
	Add 1% for water charges				5.37
	TOTAL				542.25
	Add 15% for contractor's profit and overheads				81.34
	Cost of 2.525 sqm.				623.59
	Cost of 1 sqm.				246.97
	Say				246.95

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.19 Weather shade, Chajjas, corbels etc., including edges.

Code	Description	Unit	Quantity	Rate	Amount
	Consider 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 1x0.05x1.80 = 0.094 2x0.45x0.06 = 0.027 Total = 0.954 sqm. Materials : Assuming that the timber will become unserviceable after being used 8 times. Ilnd class kail wood (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 contains 1.088x0.038 =0.041 cum = 41 cudm				
1198	Qty taken for cost using once = 41/8 = 5.125 cudm (ii) Battens- 2x0.60x0.075x0.10 = 0.009 Ends with bearing center 1x0.45x0.075x0.10 = 0.003 Total = 0.012 cum = 12 cudm	10 cudm	5.125	178.00	91.22
1197	Qty taken for cost using once =12/8=1.50 cudm (iii) Bailies 125mm dia. 2x2.1 =4.2m Wastage 5% = 0.21m Total = 4.41 m	10 cudm	1.50	160.00	24.00
2447	Qty taken for cost using once = 4.41/8 = 0.5513 m Carriage: Plank = 0.041 cum. Battens = 0.012 cum. Bailies $4.41x22/7x(0.125)^2/4$ = 0.054 cum. Total = 0.107 cum	metre	0.5513	27.00	14.89
2204	Qty taken for cost using once = 0.107/8 = 0.01338 cum Labour for assembling, erection, dismantling & cleaning	cum	0.01338	60.81	0.81
0 112	Carpenter II class	Day	0.30	141.60	42.48
0114	Mazdoor (Male)	Day	0.25	135.25	33.81
9999	Sundries	L.S	5.20	1.00	5.20
	TOTAL				212.41

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				2.12
	TOTAL				214.53
	Add 15% for contractor's profit and overheads				32.18
	Cost for 0.954 sqm.				246.71
	Cost of 1 sqm.				258.61
	Say				258.60

5.9 Centring and shuttering including strutting, propping etc. and removal of form for:
5.9.20 Suspended floors, roofs, landings, balconies and access platform, with water proof ply 12mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m Materials: 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 = 2.70m@3.00kg/m = 8.I kg Weight of one plate =8.1 Okg Add for wastage @ 5% = 0.41 kg Total = 8.51kg Total weight of all plates = 5x6x8.51 = 255.30 kg Qty taken for cost using once.= 255.30x0.85/8 = 27.13kg				
	(X) Rate as per item no 10.1	kg	27.13	42.15	1143.53 (X)
8659	Water proof ply 12mm thick. 1x4.50x3.00=13.50sqm Add wastage 5% =0.68sqm Total 14.18sqm Qty taken for cost using once 14.18/8 = 1.77sqm	sqm	1.77	572.00	1012.44
7342	2. Adjustable span- ESOSI (2.35-3.40m) Qty taken for cost using once = 5x0.85/40 = 0.531	each	0.1063	1 600.00	170.08
7343	3. Adjustable telescope prop 3m(2.02-3.75m) Qty taken for cost using once = 6xO.85/40 0.6375	each	0.1275	1 000.00	127.50
9999	4. Assembly nut & bolts etc.	L.S.	12.63	1.00	12.63
9999	Carriage	L.S.	130.00	1.00	130.00
	Labour:				
0116	Fitter grade-I	Day	3.00	151.50	454.50
0114	Beldar	Day	6.00	135.25	811.50
9999	Shuttering oil	L.S.	78.00	1.00	78.00
9999	Sundries	L.S.	52.00	1.00	52.00
	TOTAL				3 992.18
	Add 1 % for water charges except on 'X'				28.49
	TOTAL				4020.67
	Add for contractor's profit and overheads @ 15% except on'X'				431.57
	Cost for 13.50 sqm.				4 452.24
	Cost per sqm.				329.80
	Say				329.80

5.9 Centring and shuttering including strutting, propping etc. and removal of form for :
5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers, with water proof ply 12mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Consider 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 Materials : 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 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 3.90 m @ 3.00 kg/m = 11.70 kg Weight of one plate = 11.70 kg. Add for wastage = 0.585kg. Total =12.285 kg. Total weight of all plates 3x5x12.285 = 184.275 kg Qty taken for cost of using once = 184.275*x0.85/8 =19.58 kg				
	Rate as per item no 10.1	kg	19.58	42.15	825.30
8659	Water proof ply 12mm 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 sgm	sqm	1.02	572.00	583.44
7343	(ii) Props 3m (adjustable telescopic 2.02-3.75m) Qty taken for cost of using once = 6 x0.85/40 =0.1275 m	each	0.1275	1000.00	127.50
7344	(iii) Beam clamp 300-380 mm(450-1070mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063m	each set	0.1063	375.00	39.86
9999	(iv) Assembly nut & bolts etc.	L.S.	11.05	1.00	11.05
9999	Carriage	L.S.	78.00	1.00	78.00
	Labour:				
0116	Fitter Grade-1	Day	1.25	151.50	189.38
0114	Beldar	Day	2.50	135.25	338.12
9999	Shuttering oil	L.S.	39.00	1.00	39.00
9999	Sundries, paper tape etc.	L.S.	26.00	1.00	26.00
	TOTAL				2257.65
	Add 1% for water charges except on 'X'				14.32
	TOTAL				2271.97
	Add for contractor's profit and overheads @ 15% except on 'X'				217.00
	Cost for 7.80 sqm.				2488.97
	Cost per sqm.				319.10
	Say				319.10

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

5.10.1 12 mm dia. & 100 mm length.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for wall length 7.90mxlm (24 set)				
	Material:				
7320	Tie bolt 12mm dia & 100 mm length	each	24	31.00	744.00
7324	Spring Coil 12mm dia.	each	48	10.00	480.00
7325	Plastic cone 12mm dia.	each	48	12.00	576.00
9999	Carriage:	L.S.	13.00	1.00	13.00
	Labour :				
9999	Sundries	L.S.	26.00	1.00	26.00
	TOTAL				1 839.00
	Add 1 % for water charges				18.39
	TOTAL				1 857.39
	Add 15% for contractor's profit and overheads				278.61
	Cost for 24 sets				2 136.00
	Cost of 1 each set				89.00
	Say				89.00

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

5.10.2 12 mm dia. & 150 mm length.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for wall length 7.90mxlm (24 set)				
	Material:				
732	Tie bolt 12mmjda& 150mm length	each	24	42.00	1008.00
7324	spring coil 12 mm dia	each	48	10.00	480.00
7325	Plastic cone 12mm dia.	each	48	12.00	576.00
9999	Carriage:	L.S.	13.00	1.00	13.00
	Labour:				
	Sundries	L.S.	26.00	1.00	26.00
	TOTAL				2103.00
	Add 1 % for water charges				21.03
	TOTAL				2124.03
	Add 15% for contractor's profit and overheads				318.60
	Cost for 24 sets				2442.63
	Cost of 1 each set				101.78
	Say				101.80

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

5.10.3 20mmdia. & 150 mm length.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for wall length 7.90mxlm (24 set)				
	Material:				
7322	Tie bolt 20mm ida & 150mm length	each	24	57.00	1368.00
7324	Spring coil 12 mm dia	each	48	10.00	480.00
7325	Plastic cone 12 mm dia	each	48	12.00	576.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage:	L.S.	5	2.60	13.00
	Labour:				
9999	Sundries	L.S.	10	2.60	26.00
	TOTAL				2463.00
	Add 1% for water charges				24.63
	TOTAL				2487.63
	Add 15% for contractor's profit and overheads				373.14
	Cost for 24 sets				2860.77
	Cost of 1 each set				119.20
	Say				119.20

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

5.10.4 20 mm dia.& 225 mm length.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for wall length 7.90mxlm (24 set)				
	Material:				
7323	Tie bott.20mm dia & 225mm length	each	24	72.00	1728.00
7324	Spring coil 12 mm dia	each	48	10.00	576.00
7325	Plastic cone 12mm dia.	each	48	12.00	576.00
9999	Carriage:	L.S.	5	2.60	13.00
	Labour:				
9999	Sundries	L.S.	10	2.60	26.00
	TOTAL				2 823.00
	Add 1 % for water charges				28.23
	TOTAL				2 851.23
	Add 15% for contractor's profit and overheads				427.68
	Cost for 24 sets				3 278.91
	Cost of 1 each set				136.62
	Say				136.60

5.11 Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring 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).$_r$

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a Room of size 6mx4.8m = 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				
	1. Prop 4m				
7345	Qty taken for cost using once = 21 x0.85/40 = 0.4463	each	0.4463	1030.00	459.69
	2. Prop 3m				
7343	Qty taken for cost using once = 21x0.85/40 = Difference of rate between 4m prop and 3m prop. 7x3	each	0.4463	1000.00	446.30

Code	Description	Unit	Quantity	Rate	Amount
	2.Bracing MS tube 40mm 7x4.8m = 33.60m 3x6.0m= 18.00m Total = 51.60m				
7330	Qty taken for cost using once = 51.6x0.85/40 = = 1.0965	meter	1.0965	1.0965	246.71
	3. Double coupler (40x40)				
7346	Qty taken for cost using once = 21 x0.85/40 = 0.4463	each	0.4463	45.00	20.08
9999	Carriage	L.S.	65.00	1.00	65.00
	Labour:				
0116	Fitter Grade-I	Day	3.00	151.50	454.50
0114	Beldar	Day	6.00	135.25	811.50
9999	Sundries	L.S.	130.00	1.00	130.00
	TOTAL				2633.78
	Add 1 % for water charges				26.34
	TOTAL				2660.12
	Add 15% for contractor's profit and overheads				399.02
	Cost for 28.8 sqm.				3059.14
	Cost per sqm.				106.22
	Say				106.20

5.12 Providing, hoisting and fixing upto 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 centring, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum. Materials :				
	(A) Cement concrete 1:2:4 in string or lacing course etc-	cum	1 cum	4 814.35	4 814.35
	(A) (Rate as per item no 4.5) (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				
0114	(B) Beldar	Day	0.10	135.25	13.52 (B)
0101	(B) Bhishti	Day	0.20	138.45	27.69 (B)
0123	(B) Mason 1st class	Day	0.04	151.50	6.06 (B)
0124	(B) Mason 2nd class	Day	0.04	141.60	5.66 (B)
0128	(B) Mate	Day	0.04	138.45	5.54 (B)
	TOTAL				4872.82
	(C) Add for water charges @ 1 % on B				0.58
	TOTAL				4873.40
	Add for contractor's profit and overheads @ 15% on B+C				8.86
	Cost for 1 cum.				4882.26
	Say				4882.25

5.13 Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span upto floor five level including the cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal-size).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a lintel:				
	Materials:				
	1.5m clear span = 1.8x0.20x0.15 = 0.054 cum.				
	Cement Concrete 1:2:4	cum	0.054	3579.10	193.27
	(Rate as per item no. 4.2.3)	sqm	0.60	119.25	71.55
	Centring and shuttering				
	(Rate as per item no. 4.3.1)	sqm	0.90	62.15	55.94
	Finishing				
	(Rate as per item no. 13.24.1)				
	Labour:				
	Add extra labour for laying CC in RCC work				
0114	(B) Beldar	Day	0.005	135.25	0.68
0101	(B) Bhishti	Day	0.01	138.45	1.38
0123	(B) Mason lstclass	Day	0.002	151.50	0.30
0124	(B) Mason 2nd class	Day	0.002	141.60	0.28
0128	(B) Mate	Day	0.002	38.45	0.28
	TOTAL				323.68
	Add for water charges @ 1% on 'B'				0.03
	TOTAL				323.71
	Add for contractor's profit and overheads @ 15% on 'B+C				0.44
	Cost for 0.054 cum.				324.15
	Cost per cum				6002.78
	Say				6002.80

5.14 Providing, hoisting and fixing upto 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 centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete 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				
	lmx0.20x0.15=0.03 cum				
	Cement concrete 1:2:4				
	(Rate as per item No. 4.2.3)	cum	0.03	3579.10	107.37
9999	(A) Mortar and labour for hoisting and for fixing	L.S.	2.73	1.00	2.73
	Finishing	sqm	0.50	62.15	31.08
	(Rate same as per item no. 13.24.1)				
	Centring and shuttering	sqm	0.36	119.25	42.93
	(Rate same as per item no.4.3.1)				
9999	(A) Add for extra labour for hoisting 53.82x0.03	L.S.	1.61	1.00	1.61
	Add Extra labour for moulding :				
0123	(A) Mason 1st class 0.58x0.03	Day	0.0174	151.50	2.64
0124	(A) Mason 2nd class 0.58x0.03	Day	0.0174	141.60	2.46
0115	(A) Coolie 1.5x0.03	Day	0.045	135.25	6.09

Code	Description	Unit	Quantity	Rate	Amount
0101	(A) Bhishti 0.06x0.03	Day	0.0018	138.45	0.25
	Extra labour for laying CC in RCC				
0114	(A) Beldar 0.1x0.03	Day	0.003	135.25	0.41
0101	(A) Bhishti 0.2x0.03		0.006	138.45	0.83
0123	(A) Mason 1st class 0.04x0.03		0.0012	151.50	0.18
0124	(A) Mason 2nd class 0.04x0.03		0.0012	141.60	0.17
0128	(A) Mate 0.04x0.03		0.0012	138.45	0.17
	TOTAL				198.92
	(B) Add for water charges @ 1 % on 'A'				0.18
	TOTAL				199.10
	Add for contractor's profit and overheads @ 15% on 'C+D'				2.66
	Cost for 0.03 cum				201.76
	Cost for 1 cum.				6725.33
	Say				6725.35

5.15 : Providing, hoisting and fixing upto 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 centring and shuttering and finishing smooth with 6 mm thick cement plaster 1:3(1 cement: 3 fine sand) on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mjn nominal size).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for beam 6.60m long 0.50m deep and 0.30m wide = 6.60x0.50x0.30 = 0.99 cum.				
	(A) Cement concrete 1:2:4	cum	0.99	3 257.45	3 224.88
	(Rate as per item No.4.1.3)	sqm	7.80	62.15	484.77
	(Rate same as per item no. 13.16.1)				
	Finishing				
	(A) Centring and shuttering	sqm	6.9	119.25	822.82
	(Rate same as per iterh no. 4.3.1)				
	Extra labour for lifting material upto floor V level				
0115	(B) Coolie	Day	1.11	135.25	150.13
	LABOUR				
	Extra labour for layin cement concrete in RCC work				
0114	(B) Beldar 0.10x0.99	Day	0.099	135.25	13.39
0101	(B) Bhishti 0.20x0.99	Day	0.198	138.45	27.41
0123	(B) Mason 1st class 0.04x0.99	Day	0.0396	1 51.50	6.00
0124	(B) Mason 2nd class 0.04x0.99	Day	0.0396	141.60	5.61
0128	(B) Mate 0.04x0.99	Day	0.0396	138.45	5.48
9999	(B) Cement mortar 1:3 for fixing	L.S.	89.70	1.00	89.70
9999	(B) Labour for hoisting, Transporting and setting in position	L.S.	269.10	1.00	269.10
	TOTAL				5 099.29
	(C) Add for water charges @1% on 'B'				5.67
	TOTAL				5 104.96
	Add for contractor's profit and overheads @ 15%				85.87
	Cost for 0.99 cum				5 190.83
	Cost for 1 cum.				5 243.26
	Say				5 243.25

5.16 : Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centring, 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 12.5mm 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				
	Rate as per Item No 4.1.3	cum	0.0162	3257.45	52.77
	Finisihing				
	(Rate same as per iem no. 13.18)	sqm	0.85	21.40	18.19
	(A) Centring and shuttering:2x(0.90+0.45)x0.04 = 0.108 sqm	sqm	0.108	119.25	12.88
	(Rate same as per item no. 4.3.1)				
	Extra labour for lifting material upto floor V level				
0115	(B) Coolie	Day	0.018	135.25	2.43
	LABOUR				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	(B) Beldar	Day	0.016	135.25	2.16
0101	(B) Bhishti	Day	0.0032	138.45	0.44
0123	(B) Mason 1st class	Day	0.0006	151.50	0.09
0124	(B) Mason 2nd class	Day	0.0006	141.60	0.08
0128	(B) Mate	Day	0.0006	138.45	0.08
9999	(B) Cement mortar 1:3 for fixing	L.S.	4.42	1.00	4.42
9999	(B) Labour for hoisting, Transporting and setting in position	L.S.	13.52	1.00	13.52
	TOTAL				107.06
	(C) Add for water charges @ 1 % on 'B'				0.23
	TOTAL				107.29
	Add for contractor's profit and overheads @				3.52
	Cost for 0.0162 cum				110.81
	Cost for 1 cum.				6 840.12
	Say				6 840.10

5.17 : Providing, hoisting and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete 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 face of wall and 5cm thick cubical contents = 0.66 cum.				
	Material:				
	(A) Cement concrete l:2:4 (Rate as per item 4.1.3)	cum	0.66	3 257.45	2 149.92
	(A) Finishing	sqm	27.50	62.15	1 709.12
	(Rate same as per item no. 4.3.1)				
	(A) Centering and shuttering	sqm	2.56	119.25	305.28
	(Rate same as per item no. 4.3.1)				

Code	Description	Unit	Quantity	Rate	Amount
	Extra labour for lifting material upto floor V level				
0115	(B) Coolie	Day	0.75	135.25	101.44
	LABOUR				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	(B) Beldar	Day	0.066	135.25	8.93
0101	(B) Bhishti	Day	0.132	138.45	18.28
0123	(B) Mason 1st class	Day	0.0264	151.50	4.00
0124	(B) Mason 2nd class	Day	0.0264	141.60	3.74
0128	(B) Mate	Day	0.0264	138.45	3.66
9999	(B) Cement mortar 1:2 for fixing	L.S	17.94	1.00	17.94
9999	(B) Labour for hoisting, Transporting and setting in position	L.S.	71.76	1.00	71.76
9999	(B) Sundries	L.S.	17.94	1.00	17.94
	TOTAL				4 412.01
	Add for water charges @ 1 % on 'B'				2.48
	TOTAL				4 414.49
	Add for contractor's profit and overheads @ 15% on'BC'				37.53
	Cost for 0.66 cum				4 452.02
	Cost for 1 cum.				6 745.48
	Say				6 745.50

5.18 : Providing precast cement concrete Jali 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring 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 jali				
	2.00mx0.75m = 1.50 sqm. of jali				
0768	Cost of jail	sqm	1.50	145.00	217.50
9999	Mortar for fixing	L.S	6.24	1.00	6.24
9999	Carriage and sundries	L.S	6.20	1.00	6.20
	Labour (for fixing):				
0123	Mason 1st class	Day	0.30	151.50	45.45
0124	Mason 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	1.08	135.25	146.07
	TOTAL				463.94
	Add 1% for water charges				4.64
	TOTAL				468.58
	Add 15% for contractor's profit and overheads				70.29
	Cost of 1.50 sqm.				538.87
	Cost of 1 sqm.				359.24
	Say				359.20

5.18 : Providing precast cement concrete Jali 1:2:4 (I cement: 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring 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.

5.18.2 : 40 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.2mx0.60m = 0.75 sqm. of jali.				
0769	Cost of jali	sqm	0.75	115.00	86.25
9999	Mortar for fixing	L.S.	0.364	1.00	0.364
9999	Carriage and sundries	L.S.	0.364	1.00	0.364
	Labour (for fixing):				
0123	Mason 1st class	Day	0.12	151.50	18.18
0124	Mason 2nd class	Day	0.12	141.60	16.99
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				196.32
	Add 1 % for water charges				1.96
	TOTAL				198.28
	Add *15%* for contractor's profit and overheads				29.74
	Cost For 75sqm.				228.02
	Cost of 1 sqm.				304.03
	Say				304.05

5.18 : Providing precast cement concrete Jali 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring 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.

5.18.3 : 25 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for jali 0.75mx0.5m = 0.375 sqm				
0770	Cost of jali	sqm	0.375	92.00	34.50
9999	Mortar for fixing	L.S	1.82	1.00	1.82
9999	Carriage and sundries	L.S	1.82	1.00	1.82
	Labour (for fixing):				
0123	Mason lstclass	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	0.25	135.25	33.81
	TOTAL				89.54
	Add 1% for water charges				0.90
	TOTAL				90.44
	Add 15% for contractor's profit and overheads				13.57
	Cost of 0.375 sqm				104.01
	Cost of 1 sqm.				277.36
	Say				277.35

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 12.5mm nominal size) including centring 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. Joist (150mmx80mm) 4.88m long placed 30cm apart centre to centre				
	Overall dimensions of the beam 43cmx20cm-				
	(Rate as per item no. 4.16.1)				
	Materials:				
	Concrete work-				
	4.93x0.43x0.20 = 0.424 cum				
	For 1:2:4 Cement Concrete (1 cement: 2 coarse sand : 4 stone aggregate 20mm NS)				
	Rate as per item no. 4.1.3	cum	0.424	3 257.45	1381.16
	Extra labour for laying C.C. in RCC work				
	(Rate as (B) in item No.512)				
0114	(A) Beldar	Day	0.10	135.25	15.52
0101	(A) Bhishti	Day	0.20	138.45	27.69
0123	(A) Mason 1st class	Day	0.04	151.50	6.06
0124	(A) Mason 2nd class	Day	0.04	141.60	5.66
0128	(A) Mate	Day	0.04	138.45	5.54
	Form work-				
	4.93x0.83 girth = 4.09 sqm.	sqm	4.09	162.65	665.24
	(Rate as per item No. 5.9.5				
9999	(B) Sundries and for lifting materials	L.S.	21.58	1.00	21.58
	TOTAL				2126.45
	Add for water charges @ 1% on A+B				0.80
	TOTAL				2127.35
	(C) Add for contractor's profit and overheads @ 15 % onA+B+C				12.13
	Cost of 0.424 cum				2139.48
	Cost of 1 cum.				5045.94
	Say				5045.95

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for the grillage				
	3.50mx3.50mxl.00m				
	Cement concrete 1:2:4				
	3.50mx3.50xl.00=12.25cum-				
	Cement concrete 1:2:4				
	Rate as per item no. 4.1.3	cum	12.25	3 257.45	39903.76
	Extra labour for laying C.C. in RCC work				
	(Rate as (B) in item 5.12)				
0114	Beldar	Day	0.10	135.25	13.52
0101	Bhishti	Day	0.20	138.45	27.69
0123	Mason 1st class	Day	0.04	151.50	6.66
0124	Mason 2nd class	Day	0.04	141.60	5.66
0128	Mate	Day	0.04	138.45	5.54
	Shuttering :				
	2(3.50+3.50)x1.00= 14.00 sqm.	sqm	14.00	162.65	2277.10
	(Rate as per item 5. 9.5)				
	TOTAL				42239.33

Code	Description	Unit	Quantity	Rate	Amount
	(B) Add for water charges @ 1% on "A"				0.58
	(A) TOTAL				42239.91
	Add for contractor's profit and overheads @ 15 % on "A+B"				8.86
	Cost of 12.25 cum.				42248.77
	Cost of 1 cum.				3448.88
	Say				3448.90

5.21 : Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3.25mm wide 1.6mm 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
	Deatail of cost for 10 sqm				
	Materials:				
	Expended metal 20 mm x 60 mm and 1.6 mm thick = 10 sqm				
	wastage 5 % = 0.50 sqm				
1015	Total =10.50 sqm	sqm	10.50	200.00	2100.00
9999	Carriage of expended metal	L.S	13.52	1.00	13.52
9999	Wire for tieing	L.S	13.52	1.00	13.52
	Cost of bending and placing in position				
0102	Blacksmith 1st class	Day	0.25	151.50	37.88
0114	Beldar	Day	0.25	135.25	33.81
	TOTAL				2198.73
	Add for water charges @ 1 %				21.99
	TOTAL				2220.72
	Add for contractor's profit and overheads 15 %				333.11
	Cost of 10 sqm				2553.83
	Cost of 1 sqm.				255.38
	Say				255.40

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

5.22.1 : Mild steel and Medium\Tensile steel bars.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-				
	Materials:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
1004	Total = 1.05 q	quintal	1.05	3075.00	3 228.75
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	47.29	4.97
9999	Cover block	L.S.	26.00	1.00	26.00
	26.00				
	Labour:				
	For straightening, cutting, bending, binding and placing in position-				
0102	Blacksmith 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries and binding wire	L.S.	26.91	1.00	26.91
	TOTAL				3573.38
	Add 1% for water charges				35.73
	TOTAL				3609.11
	Add 15% for contractor's profit and overheads				541.37
	Cost of one quintal				4150.48
	Cost of 1 Kg.				41.50
	Say				41.50

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing \ in position and binding all complete.

5.22.2 : Hard drawn steel wire

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-				
	Materials:				
	Hard drawn steel wire = 1.00 q				
	wastage 5%=0.05q				
1224	Total = 1.05 q	quintal	1.05	3100.00	3255.00
2205	Carriage 1.05q = 0.105 tonne	tonne	0.105	47.29	4.97
	Labour:				
	For cutting and laying in position etc-				
0102	Blacksmith 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				3573.63
	Add 1% for water charges				35.74
	TOTAL				3609.37
	Add 15 % for contractor's profit and overheads				541.41
	Cost of one quintal				4150.78
	Cost of 1 Kg.				41.50
	Say				41.50

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

5.22.3 : Cold twisted bars

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-Materials:				
	Deformed twisted steel bars = 1.00 q				
	wastage 5% = 0.05q				
1005	Total = 1.05q	quintal	1.05	3175.00	3333.75
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	47.29	4.97
9999	Cover block	L.S.	26.00	1.00	26.00
	Labour:				
	For straightening, cutting, bending, binding and placing in position-				
0102	Blacksmith 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries and binding wire	L.S.	26.91	1.00	26.91
	TOTAL				3678.38
	Add 1 % for water charges				36.78
	TOTAL				3715.16
	Add *15%* for contractor's profit and overheads				557.27
	Cost of one quintal				4272.43
	Cost of 1 Kg.				42.72
	Say				42.70

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

5.22.4 : Hot rolled deformed bars

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-				
	Materials:				
	Deformed twisted steel bars = 1.00 q				
	wastage 5 % =0.05q				
1005	Total = 1.05q	quintal	1.05	3175.00	3 333.75
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	47.29	4.97
9999	Cover block	L.S.	26.00	1.00	26.00
	Labour:				
	For straightening, cutting, bending, binding				
	and placing in position-				
0102	Blacksmith 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries and binding wire	L.S.	26.91	1.00	26.91
	TOTAL				3678.38
	Add 1 % for water charges				36.78
	TOTAL				3715.16
	Add 15% for contractor's profit and overheads				557.27
	Cost of one quintal				4272.43
	Cost of 1 Kg.				42.72
	Say				42.70

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

5.22.5 : Hard drawn steel wire fabric

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-				
	Materials:				
	Hard drawn steel wire fabric 100kg/7.75kg				
	= 12.903 sqm., wastage 5 % = 0.64 sqm				
1021	Total =13.548 sqm.	sqm	13.548	310.00	4199.88
2205	Carriage 1.05q = 0.105 tonne	tonne	0.105	47.29	4.97
9999	Cover block	L.S.	26.00	1.00	26.00
	Labour:				
	For cutting and laying in position.				
0103	Blacksmith 2nd class	Day	0.20	141.60	28.32
0114	Beldar	Day	1.50	135.25	202.88
9999	Sundries and binding wire	L.S.	13.52	1.00	13.52
	TOTAL				4475.57
	Add 1% for water charges				44.76
	TOTAL				4520.33
	Add 15 % for contractor's profit and overheads				678.05
	Cost of one quintal				5198.38
	Cost of 1 Kg.				51.98
	Say				52.00

5.22 : Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

5.22.6 : Thermo-Mechanically Treated bars.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal-				
	Materials:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
1005	Total =1.05q	quintal	1.05	3 175.00	3 333.75
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	47.29	4.97
9999	Cover block	L.S.	26.00	1.00	26.00
	Labour:				
	For straightening, cutting, bending, binding and placing in position-				
0102	Blacksmith 1 st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries	L.S	26.91	1.00	26.91
	TOTAL				3 678.38
	Add 1% for water charges				36.78
	TOTAL				3 715.16
	Add 10% for contractor's profit and overheads				557.27
	Cost of one quintal				4 272.43
	Cost of 1 Kg.				42.72
	Say				42.70

5.23 : Deduct for omitting in R.C.C. work smooth finishing of the exposed surface with 6mm thick cement mortar 1:3 (1 Cement: 3 fine sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for lOsqm.				
	Materials:				
	Cement mortar 1:3 (cement:3 finesand) (Rate as per items No. 3.3)	cum	0.072	2870.00	206.64
0155	Mason	Day	0.51	146.55	74.74
0115	Coolie	Day	0.75	135.25	101.44
0101	Bhisti	Day	0.92	138.45	127.37
9999	Extra for removing burrs, cleaning with wire brushes pock marking with pointed tool etc. complete	L.S.	13.39	1.00	13.39
9999	Scaffolding and Sundries	L.S.	11.70	1.00	11.70
	TOTAL				535.28
	Add 1 % for water charges				5.35
	TOTAL				540.63
	Add ld^& for contractor's profit and overheads				81.09
	Cost of 10 Sqm.				621.72
	Cost per sqm.				62.17
	Say				62.15

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.				
	Materials:				
	Cement mortar 1:2 (1 Cement: 2 Coarse sand)	cum	0.03	3 864.25	115.93
	(Rate as per item No. 3.2				
0367	finishing (Floating coat) cement	tonne	0.0213	4500.00	95.85
2209	Carriage of cement	tonne	0.0213	47.29	1.01
	Labour:				
0123	Mason I class	Day	0.20	151.50	30.30
0124	Mason II class	Day	0.20	141.60	28.32
0114	Beldar	Day	0.25	135.25	33.81
9999	Spreading earth on floor (7.5mm thick)	L.S.	35.49	1.00	35.49
	Spreading sand 15mm thick on floor				
0983	Fine sand	cum	0.15	320.00	48.00
2261	Carriage of sand	cum	0.15	53.21	7.98
	Labour:				
9999	Disposal of earth spread over floor protectiron	L.S.	5.33	1.00	5.33
9999	Sundries	L.S.	6.24	1.00	6.24
	TOTAL				408.26
	Add 1 % for water charges				4.08
	TOTAL				412.34
	Add 15% for contractor's profit and overheads				61.85
	Cost of 10 Sqm.				474.19
	Cost per sqm.				47.42
	Say				47.40

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 3.0 m lenght, width 250mm and 1.6 mm thick = 0.750 sqm				
0967	Weight of copper plate @ 14.08 kg/m^2 10.56kg	kg	10.56	195.00	2059.20
	Labour				
0103	Blacksmith 2nd class	Day	0.25	141.60	35.40
9999	Sundries	L.S	6.24	1.00	6.24
	TOTAL				2100.84
	Add 1% for water charges				21.01
	TOTAL				2121.85
	Add 15% for contractor's profit and overheads				318.28
	Cost of 10.56 kg				2440.13
	Cost per kg.				231.07
	Say				231.05

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a joint - 2.5cm wide 15cm deep and 300m in length-				
	Cubical content of joint-				
	300x0.025x0.150=1.125cum. **				
	Material :-				
0313	Bitumen 85/25 @ 1050kg per cum.				
	1.25x1050kg = 1181.25kg				
	Add wastage @ 5% = 59.06 kg.				
	= 1240.31 kg = 1.2401	tonne	1.24	25 000.00	31 000.00
2211	Carriage of bitumen	tonne	1.246	53.21	5.98
0370	Steam coal for heating of bitumen @ 2.0 quintal per tonne of bitumen.	quintal	2.48	300.00	744.00
	1.240x2.0=2.48q=0.248t				
2200	Carriage of steam coal	tonne	0.248	60.81	15.08
	Labour for heating, mixing and filling-				
0123	Mason 1 st class	Day	2.52	151.50	381.78
0124	Mason 2nd class	Day	2.52	141.60	356.83
0114	Beldar	Day	8.06	135.25	1 090.12
9999	Sundries	L.S.	121.16	1.00	121.16
	TOTAL				33 774.95
	Add 1% for water charges				337.75
	TOTAL				34 112.70
	Add *15%* for contractor's profit and overheads				5 116.90
	Cost of 300m length 2.5cm wide and 15cm depth				39 229.60
	Cost per cm. depth, per cm width per 100m length				348.71
	Say				348.70

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 a joint - 2.5cm wide 15cm deep and 300m in length				
	-Cubical content of joints-				
	300x0.150x0.025= 1.125cum.				
	Materials				
	Bitumen S-90 = 256.30 kg per cum.				
	256.30xl.125 = 288.34 kg. —				
	Add for wastage @ 5% = 14.42 kg. '				
	= 302.76 kg. or = 0.303[1] tonne.				
0309	Bitumen	tonne	0.303	22500.00	6 817.50
2211	Carriage of bitumen	tonne	0.303	53.21	16.12
0370	Stem coal for heating of bitumen @ 2.0 quintal per tonne of bitumen, i.e.	quintal	0.606	300.00	181.80
	0.303x2.0=0.606q				
2200	Carriage of steam coal	tonne	0.061	60.81	3.71
	Cement:				
0367	1/80x228.34=3.6 kg = 0.0036 Tonne	tonne	0.0036	500.00	16.20
2209	Carriage of cement	tonne	0.0036	47.29	0.17
0982	Coarse sand l/4th of the quantity of cement in	cum	0.90	600.00	540.00

Code	Description	Unit	Quantity	Rate	Amount
	kg = 3.6/4 = 0.90 cum. -				
2203	Carriage of coarse sand	cum	0.90	53.21	47.89
	Labour for heating and filling :				
0123	Mason 1 st class	Day	2.52	151.50	381.78
0124	Mason 2nd class	Day	2.52	141.60	356.83
0114	Beldar	Day	8.06	135.25	1090.12
9999	Sundries	L.S	121.16	1.00	121.16
	TOTAL				9573.28
	Add 1% for water charges				95.73
	TOTAL,				9669.01
	Add 15% for contractor's profit and overheads				1450.35
	Cost of 300m length 2.5cm wide and 15cm depth				11119.36
	Cost per cm. depth, per cm width per 100m length				98.84
	Say				98.85

5.28 : Providing and fixing in position 12mm 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 joint 100m long 10cm deep and 12mm thick				
	Material:				
0339	(i) Impregnated fibre board lxl00x0.075=7.5sqm.	sqm	7.50	279.00	2092.50
0316	(ii) Primere 80m/litter 100m=100/80 x1=1.25 lit	Ltrs.	1.25	28.00	35.00
0314	(iii) Sealing compound @ 3 per litrer for 100m = 100/3x1 =33.3 litres+Wastage @ 5% = 1.67 = 35.00 litre (1 litre = 0.9 Kg) = 35.00x0.9 = 31.5 Kg.	Kg	31.5	20.00	630.00
9999	Carriage	L.S.	26.91	1.00	26.91
	Labour:				
0123	Mason 1 st class	Day	0.12	151.50	18.18
0124	Mason 2nd class	Day	0.12	141.60	16.99
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				2880.30
	Add 1 % for water charges				28.80
	TOTAL				2909.10
	Add 15% for contractor's profit and overheads				436.36
	Cost of 100m long 10cm deep				3345.46
	Cost per cm depth per 100m				334.55
	Say				334.55

5.29 : Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour /shade of wall treatment.

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

5.29.1.1 : 150mm wide.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3 m length				
	Materials:				
0236	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	0.47	180.00	84.60

Code	Description	Unit	Quantity	Rate	Amount
2273	Carriage of sheets- 0.45sqm = 0.0049 tonne	tonne	0.0049	47.29	0.23
9999	50mm iron screws with washer and rawl plugs	L.S.	40.30	1.00	40.30
	Labour:				
0112	Carpenter 2nd class	Day	0.20	141.60	28.32
0114	Beldar	Day	0.20	135.25	27.05
	TOTAL				180.50
	Add 1 % for water charges				1.80
	TOTAL				182.30
	Add 15% for contractor's profit and overheads				27.34
	Cost for 3 m				209.64
	Cost per meter				69.88
	Say				69.90

5.29 : Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.

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

5.29.1.2 : 200mm wide.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3m length				
	Materials:				
0236	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	0.63	180.00	113.40
2273	Carriage of sheet 0.60sqm. = 0.0065 tonne	tonne	0.0065	47.29	0.31
9999	50mm iron screws with washer and rawl plugs	L.S.	53.82	1.00	53.82
	Labour:				
0112	Carpenter 2nd class	Day	0.27	141.60	38.23
0114	Beldar	Day	0.27	135.25	36.52
	TOTAL				242.28
	Add 1 % for water charges				2.42
	TOTAL				244.70
	Add lfei for contractor's profit and overheads				36.70
	Cost for 3m				281.40
	Cost per meter				93.80
	Say				93.80

5.29 : Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.

5.29.2 : Aluminium fluted strips 3.15mm thick.

5.29.2.1: 150 mm wide.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 meter				
	Materials:				
2391	3.15mm thick aluminium fluted strips-1 m x 15cm wide	metre	1.00	216.00	216.00

Code	Description	Unit	Quantity	Rate	Amount
0639	Iron screws 25mm	100Nos	6	15.00	0.90
9999	Carriage of materials	L.S.	1.04	1.00	1.04
	Labour:				
0112	Carpenter 2nd class	Day	0.067	141.60	9.49
0114	Beldar	Day	0.067	135.25	9.06
9999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				238.31
	Add 1% for water charges				2.38
	TOTAL				240.69
	Add 10% for contractor's profit and overheads				36.10
	Cost for 1 metre				276.79
	Say				276.80

5.29 : Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.

5.29.2 : Aluminium fluted strips 3.15mm thick.

5.29.2.2: 200 mm wide.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 meter				
	Materials:				
2392	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	1.00	288.00	288.00
0639	Iron serews 25mm	100Nos	6 Nos	15.00	0.90
9999	Carriage of materials	L.S.	1.30	1.00	1.30
	Labour:				
0112	Carpenter 2nd class	Day	0.089	141.60	12.60
0 114	Beldar	Day	0.089	135.25	12.04
9999	Sundries	L.S.	2.34	1.00	2.34
	TOTAL				317.18
	Add 1% for water charges				3.17
	TOTAL				320.35
	Add 15% for contractor's profit and overheads				48.05
	Cost for 1 metre				368.40
	Say				368.40

5.30 : Add or deduct 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 1st class	Day	0.50	151.50	75.75
0124	Mason 2nd class	Day	0.50	141.60	70.80
0115	Coolie	Day	1.00	135.25	135.25
9999	Add for materials (cement mortar etc.)	L.S.	26.91	1.00	26.91
	TOTAL				308.71
	Add 1 % for water charges				3.09

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				311.80
	Add 15% for contractor's profit and overheads				46.77
	Cost for 30 metre				358.57
	Cost per meter				11.95
	Say				11.95

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.

Code	Description	Unit	Quantity	Rate	Amount
	Analysis Same As As Per Item No 4.15				
	Details of cost for depth of water 0.30m.				
	Quantity of concrete = 14 cum.				
	pumping hours = 3 hrs. or 0.375 day.				
0011	Cost of pumping water with 3636.7 litres per hour capacity pump	Day	0.375	300.00	112.50
0114	Beldar for cleaning slush	Day	4.00	135.25	541.00
	TOTAL				653.50
	Add 1 % for water charges				6.54
	TOTAL				660.04
	Add for contractor's profit and overheads @ 15%				99.01
	Cost of 14cum. per 0.30m depth				759.05
	Cost of cum. per m depth				180.73
	Say				180.75

5.32 Extra for laying reinforced cement concretein orunder foul positions.

Code	Description	Unit	Quantity	Rate	Amount
	Analysis Same As Item No 4.16				
	Details of cost for 1 cum.				
	Extra labour due to slow progress-				
0123	Mason 1 st class	Day	0.02	151.50	3.03
0124	Mason 2nd class	Day	0.02	141.60	2.83
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	0.15	135.25	20.29
	TOTAL				59.96
	Add 1% for water charges				0.60
	TOTAL				60.56
	Add for contractor's profit and overheads @ 15%				9.08
	Cost for 1 cum.				69.64
	Say				69.65

5.33 : Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, 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. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete.
All work upto floor V level.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 cum				
	Materials.				
0295	Stone Aggregate 20 mm .	cum	0.57	700.00	399.00

Code	Description	Unit	Quantity	Rate	Amount
0297	Stone aggregate 10mm	cum	0.28	700.00	196.00
2202	Carriage of aggregate .	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	255.00
2203	Carriage of Coarse sand	cum	0.425	53.21	22.61
0367	Cement	tonne	0.41	4 500.00	1 845.00
2209	Carriage of Cement	tonne	0.41	47.29	19.39
7318	Plasticizer 0.50% of cement	kilogram	2.05	30.00	61.50
	Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant.	cum	1.00	200.00	200.00
0009	Pumping charges of concrete.	cum	1.00	80.00	80.00
	Labour for pouring, consolidating & curing				
0155	Mason	Day	0.17	146.55	24.91
0114	Beldar	Day	2.00	135.25	270.50
0101	Bhisti	Day	0.90	138.45	124.60
0012	Vibrator	Day	0.07	200.00	14.00
9999	Sundries	L.S.	13.00	1.00	13.00
	Total				3570.74
	Add 1% for water charges.				35.71
	Total				3606.45
	Add 15% for contractor's profit and overheads.				540.97
	Cost per 1.00 cum				4147.42
	Say				4147.40

5.34 : Add or deduct for providing richer or leaner mixes respectively at all floor levels.

5.34.1 : Providing M-30 grade concrete by using 420kg of Cement per cum of concrete instead of M-25 grade B.M.C./Rmc.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Cement for M-30 mix = 0.420 t				
	Cement for M-25 mix = 0.410 t				
0367	Difference 0.010t	tonne	0.01	4500.00	45.00
2209	Carnage of Cement	tonne	0.01	47.29	0.47
	Plasticizer for M-30 mix = 2.10 Kg				
	Plasticizer for M-25 mix = 2.05 Kg				
	Diffevence =0.05 kg.				
7318	Plasticizer / super plasticizer	kilogram	0.05	30.00	1.50
	TOTAL				46.97
	Add 1 % for water charges				0.47
	TOTAL				47.44
	Add for contractor's profit and overheads 15%				7.12
	Cost per cum.				54.56
	Say				54.55

5.34 : Add or deduct for providing richer or leaner mixes respectively at all floor levels.

5.34.2 : Providing M-35 grade concrete by using 428kg ofcement per cum of concrete instead of M-25 grade B.M.C./R.M.C...

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Cement for M-35 mix = 0.428 t				
	Cement for M-25 mix = 0.410 t				

Code	Description	Unit	Quantity	Rate	Amount
0367	Difference 0.01 t	tonne	0.018	4500.00	81.00
9999	Carriage of cement	tonne	0.018	27.29	0.85
	Plasticizer for M-35 mix = 2.140 Kg Plasticizer for M-25mix = 2.05 Kg Diffevence =0.09 kg.				
7318	Plasticizer / super plasticizer	kilogram	0.09	30.00	2.70
	TOTAL				84.55
	Add 1 % for water charges				0.85
	TOTAL				85.40
	Add for contractor's profit and overheads @ 15%				12.81
	Cost per cum.				98.21
	Say				98.20

5.34 Add or deduct for providing richer or leaner mixes respectively at all floor levels.

5.34.3 Providing M-30 grade concrete by using 435kg of cement per cum of concrete instead of M-25 grade B.M.C/R.M.C..

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum. Cement for M-40 mix = 0.435 t Cement for M-25 mix = 0.410 t				
0367	Difference = 0.025 t	tonne	0.025	4500.00	112.50
2209	Carriage of cement	tonne	0.025	47.29	1.18
	Plasticizer for M-40 mix = 2.175 Kg Plasticizer for M-25 mix = 0.125 Kg				
	Difference =0.125kg.	kilogram	0.125	30.00	3.75
7318	Plasticizer / super plasticizer				117.43
	TOTAL				1.17
	Add 1 % for water charges				118.60
	TOTAL				17.79
	Add for contractor's profit and overheads 15%				136.39
	Cost per cum.				136.40
	Say				

5.35 Deduct for using less cement than the quantity as provided in the item of batch mix concrete/RMC as arrived as per mix design.

Details of cost for 1 quintal

Code	Discription	Unit	Quantity	Rate	Amount
0367	Cement	M.T	0.100	4500.00	450.00
2209	Carriage of cement	M.T	0.100	47.29	4.73
					454.73
	Add 1% for water charges				4.55
					459.28
	Add for contrator profit & overheads @ 15%				68.89
	Cost for 1 Quintal				528.17
					528.15

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 1:1 1/2:3 (1 Cement: 1/2 coarse sand : 3 graded stone aggregate 10mm 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	Discription	Unit	Quantity	Rate	Amount
	Details for wafle 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				
	Rate as per item no. 5.2.2 of SH : RCC	cum	1.38	4092.35	5647.44
	(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.				
	Rate as per item no. 5.9.15 of SH: RCC 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	119.25	5468.80
	Rates as per item no 10.2 of sH: Steel work	kg	9.00	46.35	417.15
	(ii) 10 mm dia. Bolts 60 mm long with nuts and washers 2 x 2 = 4Nos.				
9999 (A)	including carriage of bolts	L.S	13.00	1.00	13.00
9999 (A)	Sundries etc.	L.S	79.95	1.00	79.95
	(IV) Transportation and erection labour for 20 units				
0125 (A)	Mason (for ornamental stone work) 1st class	Day	1.00	151.50	151.50
0115 (A)	Beldar	Day	6.00	135.25	811.50
	(V) Cost of pointing flush or deep ruled in cement mortar 1:2 (1 Cement : 2 fine sand)				
	Rate as per item no. 13.35.1	sqm	16.54	36.45	602.88
(B)	TOTAL				13192.22
	Add for water charges @ 1% on 'A'				10.56
	TOTAL				13202.78
	Add for contractor's profit and overheads @ 15% on A+B				159.98
	Total for 20 units				
	Cost for 1.38 cum.				13362.76
	Cost for 1 cum.				9683.16
	Say				9683.15

5.37 Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead upto 10kms 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. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works upto floor V level.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 cum				
	Materials.				
0295	Stone aggregate 20 mm	cum	0.57	700.00	399.00
0297	Stone aggregate 10 mm	cum	0.28	700.00	196.00
2202	Carriage of aggregate	cum	0.85	53.21	45.23
0982	Coarse sand	cum	0.425	600.00	225.00
2203	Carriage of Coarse sand	cum	0.425	53.21	22.61
0367	Cement	tonne	0.41	4500.00	1845.00
2209	Carriage of Cement	tonne	0.41	47.29	19.39
7318	Plasticizer 0.80% of cement	kilogram	2.05	30.00	61.50
	Production cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost	cum km/	10.00	200.00	200.00
0029	Carriage of concrete by transit mixer.	cum	10.00	18.00	180.00
0009	Pumping charges of concrete including Hire charges of pump, pipig work & accessories etc.	cum		80.00	80.00
0155	Labour for pouring, consolidating & curing				
0114	Mason	Day	1.00	146.55	24.91
0101	Beldar	Day	0.17	135.25	270.50
0012	Bhisti	Day	2.00	138.45	124.60
9999	Vibrator	Day	0.90	200.00	14.00
	Sundries	L.S	0.07	1.00	13.00
	Total		13.00		3750.74
	Add 1% for water charges.				37.51
	Total				3788.25
	Add 15% for contractor's profit and overheads.				568.24
	Cost per 1.00 cum				4356.49
	Say				4356.50

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
	Cost for 1 cum				
	Materials				
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1	80.00	80.00
	Total				80.00
	Add 1% for water charges.				0.80
	Total				80.80
	Add 15% for contractor's profit and overheads.				12.12
	Cost for 1 cum				92.92
	Say				92.90

5.39 Extra for carriage of R.M.C. beyond the initial lead of 10 km.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum per km.				
0029	Carriage per cum/km	cum/km	1.00	18.00	18.00
	Total				18.00
	Add 1% water charges				0.18
	Total				18.18
	Add 15% for contractor profit and overheads.				2.73
	Cost for 1 cum per km.				20.91
	Say				20.90

SUB HEAD : 6.0

BRICK WORK

6.1 Brick work with F.P.S. bricks of class designation 75 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.				
	MATERIALS :				
2602	Bricks of class designation 75	1000 Nos	494	1 900.00	938.60
	Cement mortar 1:4 (Rate as per item No. 3.9)	cum	0.25	2 578.45	644.61
2201	Carriage of bricks	1000 Nos	494	141.88	70.09
9999	Sundries	L.S.	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.36	151.50	54.54
0124	Mason IInd Class	Day	0.36	141.60	50.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL	Day			1,974.53
	Add 1% for water charges	L.S.			19.75
	TOTAL				1,994.28
	Add for contractor's profit and overheads @ 15%				299.14
	Cost of 1 Cum.				2,293.42
	Say				2,293.40

6.1 Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:
6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
2602	Bricks of class designation 75	1000 Nos	4.94	1 900.00	938.60
	Cement mortar 1:6 (Rate as per item No. 3.11)	cum	0.25	1 987.30	496.82
2201	Carriage of bricks	1000 Nos	4.94	141.88	70.09
9999	Sundries	L.S.	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.36	151.50	54.54
0124	Mason IInd Class	Day	0.36	141.60	50.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				1,826.74
	Add 1% for water charges				18.27
	TOTAL				1,845.01
	Add for contractor's profit and overheads @ 15%				276.75
	Cost of 1 Cum.				2,121.76
	Say				2,121.75

6.2 Brick work with modular bricks of class designation 75 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.				
	MATERIALS :				
7900	Modular bricks of class designation 75	1000 Nos	487	2 050.00	998.35
2201	Carriage of bricks	1000 Nos	487	141.88	69.10
	Cement mortar 1 :4 (1 cement : 4 coarse sand) (Rates as per item no. 3.9)	cum	0.22	2 578.45	567.26

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.33	151.50	50.00
0124	Mason IInd Class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				1,894.34
	Add 1% for water charges				18.94
	TOTAL				1,913.28
	Add for contractor's profit and overheads @ 15%				286.99
	Cost of 1 Cum.				2,200.27
	Say				2,200.25

6.2 Brick work with modular bricks of class designation 75 in foundation and plinth in:

6.2.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7900	Modular bricks of class designation 75	1000 Nos	487	2 050.00	998.35
2201	Carriage of Bricks	1000 Nos	487	141.88	69.10
	Cement mortar 1 :6 (1 cement : 6 coarse sand) (Rates as per item no. 3.11)	cum	0.22	1987.30	437.21
9999	Sundries	L.S.	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.33	151.50	50.00
0124	Mason IInd Class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				1,764.29
	Add 1% for water charges				17.64
	TOTAL				1,781.93
	Add for contractor's profit and overheads @ 15%				267.29
	Cost of 1 Cum.				2,049.22
	Say				2,049.20

6.3 Brick work with machine moulded perforated bricks of class designation 125 conforming to IS: 2222 -1991 in superstructure above plinth level upto floor five level in cement mortar 1:6(1 cement : 6 coarse sand):

6.3.1 With F.P.S. bricks.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7901	Machine moulded perforated FPS bricks of class designation 125	1000 Nos	494	3 233.00	1 597.10
2201	Carriage of Bricks	1000 Nos	494	141.88	70.09
	Cement mortar 1:6(1 cement: 6 coarse sand). (Rates as per item no. 3.11)	Cum	0.25	1 987.30	496.82
9999	Sundries	L.S	2.73	1.00	2.73
	LABOUR:				

Code	Description	Unit	Quantity	Rate	Amount
0123	Mason 1st Class	Day	0.47	151.50	71.20
0124	Mason IInd Class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S	22.36	1.00	22.36
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	Day	1.13	135.25	152.83
	TOTAL				2,750.82
	Add 1 % for water charges				27.51
	TOTAL				2,778.33
	Add for contractor's profit and overheads @ 15				416.75
	Cost of 1 Cum. Say				3,195.08
	Say				3,195.10

6.3 Brick work with machine moulded perforated bricks of class designation 125 conforming to IS: 2222 -1991 in superstructure above plinth level upto floor five level in cement mortar 1:6(1 cement : 6 coarse sand):

6.3.2 With Modular bricks.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7902	Machine moulded perforated FPS bricks of class designation 125	1000 Nos	487	3 200.00	1 558.40
2201	Carriage of Bricks	1000 Nos	487	141.88	69.10
	Cement mortar 1:6(1 cement: 6 coarse sand). (Rates as per item no. 3.11)	Cum	0.22	1 987.30	437.21
9999	Sundries	L.S	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.44	151.50	66.66
0124	Mason IInd Class	Day	0.44	141.60	62.30
0115	Coolie	Day	1.43	135.25	193.41
0101	Bhishti	Day	0.18	138.45	24.92
9999	Scaffolding	L.S	16.38	1.00	16.38
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	Day	1.13	135.25	152.83
	TOTAL				2,583.94
	Add 1 % for water charges				25.84
	TOTAL				2,609.78
	Add for contractor's profit and overheads @ 15%				391.47
	Cost of 1 Cum. Say				3,001.25
	Say				3,001.25

6.4 Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto 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.				
	MATERIALS :				
2602	Bricks of class designation 75	1000 Nos	494	1900.00	938.60
	Cement mortar 1:4 (Rate as per item no 3.9)	Cum	0.25	2578.45	644.61
2201	Carriage of bricks	1000 Nos	494	141.88	70.09
	Sundries	L.S	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1 st Class	Day	0.47	151.50	71.21
0124	Mason IInd Class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S	22.36	1.00	22.36
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	Day	1.13	135.25	152.83
	TOTAL				2240.12
	Add for water charges @ 1%				22.40
	TOTAL				2262.52
	Add for contractor's profit and over-heads @15%				339.83
	Cost of 1 cum.				2601.90
	Say				2601.90

6.4 Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :

6.4.2 Cement mortar 1:4 (1 cement: 4 coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
2602	Bricks of class designation 75	Nos	494	1900.00	938.60
	Cement mortar 1:6 (Rate as per item no 3.11)	Cum	0.25	1987.30	496.02
2201	Carriage of bricks	1000 Nos	494	141.88	70.09
	Sundries	L.S	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1 st Class	Day	0.47	151.50	71.21
0124	Mason IInd Class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S	22.36	1.00	22.36
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	Day	1.13	135.25	152.83
	TOTAL				2092.63
	Add for water charges @ 1%				20.93
	TOTAL				2113.56
	Add for contractor's profit and over-heads @15%				317.03
	Cost of 1 cum.				2463.59
	Say				2463.60

6.5 Extra for brick work in superstructure above floor V level for each four floors or part thereof by mechanical means by lifting material using mobile crane.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5.3 cum per four floors .				
0037	Mobile crane.	per day	0.125	5000.00	625.00
	Fuel consumption per hour = 8 litre.				
1235	Diesel oil	litre	8.000	30.25	242.00
	TOTAL				867.00
	Add 1 % for water charges				8.67
	TOTAL				875.67
	Add for contractor's profit and overheads @ 15%				131.35
	Cost of 5.3 Cum.				1 007.02
	Cost for 1 cum				190.00
	Say				190.00

6.6 Extra for forming cavity 5cm to 7.5cm 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 300mm long of 25x3mm section at not less than 3 ties per sqm as per approved design.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials :				
1008	Mild steel 25mmx3mm section 30cm long 30 No. = 9 metres @ 0.6kg/m = 5.40 kg.	quintal	0.054	2 900.00	156.60
9999	Painting the steel Bitumen	L.S	13.52	1.00	13.52
2205	Carriage of mild steel	tonne	0.005	47.29	0.24
	Extra labour for keeping cavity clear and fixing wall ties and delay caused:				
0123	Mason 1st class	Day	0.37	151.50	56.06
0124	Mason 2nd Class	Day	0.37	141.60	52.39
0114	Beldar	Day	0.92	135.25	124.43
9999	Add for use of Core	L.S	4.55	1.00	4.55
	TOTAL				407.79
	Add 1 % for water charges				4.08
	TOTAL				411.87
	Add for contractor's profit and overheads @ 15%				61.78
	Cost for 10 sqm.				473.65
	Cost for 1 sqm.				47.37
	Say				47.35

6.7 Providing half brick masonry with F.P.S. bricks of class designation 75 in cement mortar 1:3 (1 Cement : 3coarse 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 Materials : Half brick masonry 1:3 (Average) 1x10x0.27 = 2.7				

Code	Description	Unit	Quantity	Rate	Amount
	Rate as per item No.6.12.1 Bitumen felt type- 3 grade 1 lxl0mx11.4m =1.14 sqm. Add for wastage and overlapping @ 5% = 0.06 sqm.	sqm	2.70	289.60	781.92
0322 (B)	Total = 1.20 sqm. Labour:	sqm	1.20	45.00	54.00
0123 (B)	Mason 1st class	Day	0.12	151.50	18.18
0124 (B)	Mason 2nd class	Day	0.12	141.60	16.99
0114 (B)	Beldar	Day	0.06	135.25	8.12
	TOTAL				879.21
(C)	Add for water charges @ 1 % on B				0.97
	TOTAL				880.18
	Add for contractor's profit and overheads at 15% on (B+C)				14.74
	Cost of 10 metre				894.92
	Cost for 1 metre				89.49
	Say				89.50

6.8 Brick work 7 cm thick with F.P.S. brick of class designation 75 in cement mortar 1:3 (1 cement: 3 coarse sand) in superstructure.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm. Materials:				
2602	Bricks of class designation 75	1 000 Nos	377.00	1 900.00	716.30
	Cement mortar 1:3 (Rate as per item no. 3.8)	cum	0.181	3 169.60	573.70
2201	Carriage of bricks	1 000 Nos	377.00	141.88	53.49
	LABOUR:				
0123	Mason 1st class	Day	0.72	151.50	109.08
0124	Mason 2nd class	Day	0.72	141.60	101.95
0115	Coolie	Day	1.76	135.25	238.04
0101	Bhishti	Day	0.36	138.45	49.84
9999	Sundries and scaffolding	L.S.	7.15	1.00	7.15
	TOTAL				1 849.55
	Add 1 % for water charges				18.50
	TOTAL				1 868.05
	Add for contractor's profit and overheads @ 15%				280.21
	Cost for 10 sqm.				2 148.26
	Cost for 1 sqm.				214.83
	Say				214.85

6.9 Brick work in plain arches in superstructure including centring and shuttering complete for span upto 6 metres with F.P.S. bricks of class designation 75 in cement mortar 1:3 (1 cement: 3 coarse sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum. Materials :				
2602	Bricks of class designation 75	1 000 Nos	494	1 900.00	938.60
	Cement mortar 1:3 (Rate as per item no. 3.8)	cum	0.25	3 169.60	792.40
2201	Carriage of bricks	1 000 Nos	494	141.88	70.09

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S	2.73	1.00	2.73
	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.				
(B)	20.37/9.05 = 2.25 sqm.	sqm	2.25	514.70	1,158.08
	(Rate same as in item 5.9.9				
9999	Scaffolding	L.S	18.85	1.0	18.85
	Labour:				
0123	Mason 1st class	Day	0.53	151.50	80.30
0124	Mason 2nd class	Day	0.53	141.60	75.05
0115	Coolie	Day	2.29	135.25	309.72
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				3,473.51
	Add for water charges @ 1% on all except B				23.15
	TOTAL				3,496.66
	Add for contractor's profit and overheads at 15% on all except B				350.79
	Cost for 1 cum.				3,847.45
	Say				3,847.45

6.10 Brick work in gauged arches in superstructure in cement mortar 1:3 (1 cement : 3 coarse sand) including centring and shuttering complete, for span upto 6 meters with F.P.S. bricks of class designation 75

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
2602	Bricks of class designation 75	1 000 Nos	538.00	1 900.00	1 022.20
	Cement mortar 1:3 (Rate as per item no. 3.8)	cum	0.25	3 169.60	792.40
2201	Carriage of bricks	1 000 Nos	538.00	141.88	76.33
9999	Sundries	L.S	2.73	1.00	2.73
	Centring and shuttering (Area same as in item No. 6.9				
9999 (B)	(Rate same as per item No. 5.9.9	sqm	2.25	514.70	1 158.08
	Scaffolding	L.S.	18.85	1.00	18.85
	LABOUR:				
0123	Mason 1 st class	Day	1.13	151.50	171.20
0124	Mason 2nd class	Day	1.13	141.60	160.01
0115	Coolie	Day	4.42	135.25	597.80
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				4,027.29
	Add for water charges @ 1% on all except B				28.69
	TOTAL				4,055.98
	Add for contractor's profit and overheads at 15%on all except B				434.68
	Cost for 1 cum.				4,490.66
	Say				4,490.65

6.11 Extra for additional cost of centring 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 per 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=33.3 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				
1197	Total =7.103cum. Qty taken l/8th of qty for cost using once = 7.103/8 = 0.8885 cum (887.90 cudm)	10 cum	887.90	160.00	14206.40
2204	Carriage of wood 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.	cum	0.8879	60.81	53.99
1225	Qty taken l/8th of qty for cost using once = 0.702/8 = 0.0878 qtl. Bolts 160 Nos. 254 mm long 16mm dia.- 160x 0.254x 1.58=64.21 kg=0.64qtl.	quintal	0.0878	2900.00	254.62
1034	Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 qtl. Carriage of steel = 0.1342 t	quintal	0.08	4300.00	344.00
2302	Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.0168 tonne Labour:	tonne	0.0168	47.29	0.79
0112	Carpenter 2nd class	Day	28.00	141.60	3,964.80
0114	Beldar	Day	24.00	135.25	3,246.00
9999	Sundries	L.S	134.55	1.00	134.55
	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span				
	(A) Rate as per item no- 5.9.9	sqm	33.31	514.70	-17,144.66
	TOTAL				5,060.49
	Add 1% for water charges on all exept 'A'				222.05
	TOTAL				5,282.54

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15% on all except 'A' Cost of 33.31 sqm. Cost per sqm. Say				3,364.08 8,646.62 259.58 259.60

6.12 Half brick masonry with F.P.S. bricks of class designation 75 in foundation 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.				
	Materials :				
2602	Brick of class designation 75	1 000 Nos	565.00	1 900.00	1 073.50
	Cement mortar 1:3 (Rate as per item No. 3.8)	cum	0.28	3 169.60	887.49
2201	Carriage of bricks	1 000 Nos	565.00	141.88	80.16
9999	Sundries & Scaffolding	L.S	13.52	1.00	13.52
	LABOUR:				
0123	Mason 1 st class	Day	0.45	151.50	68.18
0124	Mason 2nd class	Day	0.45	141.60	63.72
0115	Coolie	Day	1.55	135.25	209.64
0101	Bhishti	Day	0.70	138.45	96.92
	TOTAL				2 493.13
	Add 1% for water charges				24.93
	TOTAL				2 518.06
	Add for contractor's profit and overheads @ 15%				377.71
	Cost for 10 sqm.				2 895.77
	Cost for 1 sqm.				289.58
	Say				289.60

6.12 Half brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth in:

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

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials :				
2602	Brick of class designation 75	1 000 Nos	565.00	1 900.00	1 073.50
	Cement mortar 1:3 (Rate as per item No. 3.9)	cum	0.28	2578.45	721.97
2201	Carriage of bricks	1 000 Nos	565.00	141.88	80.16
9999	Sundries & Scaffolding	L.S	13.52	1.00	13.52
	LABOUR:				
0123	Mason 1 st class	Day	0.45	151.50	68.18
0124	Mason 2nd class	Day	0.45	141.60	63.72
0115	Coolie	Day	1.55	135.25	209.64
0101	Bhishti	Day	0.70	138.45	96.92
	TOTAL				2 327.61
	Add 1% for water charges				23.28
	TOTAL				2 350.89
	Add for contractor's profit and overheads @ 15%				352.63
	Cost for 10 sqm.				2 703.52
	Cost for 1 sqm.				270.35
	Say				270.35

6.13 Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials :				
2602	Brick of class designation 75	1 000 Nos	565.00	1 900.00	1 073.50
	Cement mortar 1:3 (Rate as per item No. 3.8)	cum	0.28	3169.60	887.49
2201	Carriage of bricks	1 000 Nos	565.00	141.88	80.16
9999	Sundries & Scaffolding	Day	13.52	1.00	13.52
	LABOUR:				
0123	Mason 1st class	Day	0.60	151.50	90.90
0124	Mason 2nd class	Day	0.60	141.60	84.96
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhishti	Day	0.70	138.45	96.92
	Extra labour for lifting materials:				
0115	Coolie	Day	1.29	135.25	174.47
	10 x 0.115 x 0.75 x1.5				
	TOTAL				2 772.42
	Add 1% for water charges				27.72
	TOTAL				2 800.14
	Add for contractor's profit and overheads @ 15%				420.02
	Cost for 10 sqm.				3 220.16
	Cost for 1 sqm.				322.02
	Say				322.00

6.13 Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials :				
2602	Brick of class designation 75	1 000 Nos	565.00	1,900.00	1,073.50
	Cement mortar 1:4 (Rate as per item No. 3.9)	cum	0.28	2578.45	721.97
2201	Carriage of bricks	1 000 Nos	565.00	141.88	80.16
9999	Sundries & Scaffolding	Day	13.52	1.00	13.52
	LABOUR:				
0123	Mason 1st class	Day	0.60	151.50	90.90
0124	Mason 2nd class	Day	0.60	141.60	84.96
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhishti	Day	0.70	138.45	96.92
	Extra labour for lifting materials:				
0115	Coolie	Day	1.29	135.25	174.47
	10 x 0.115 x 0.75 x1.5				
	TOTAL				2,606.90
	Add 1% for water charges				26.07
	TOTAL				2,632.97
	Add for contractor's profit and overheads @ 15%				394.95
	Cost for 10 sqm.				3,027.92
	Cost for 1 sqm.				302.79
	Say				302.80

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 59.83 sqm per four floors				
0037	Mobile crane.	per day	0.125	5000.00	625.00
	Fuel consumption per hour = 8 litre.				
1235	Diesel oil	litre	8.00	30.25	242.00
	TOTAL				867.00
	Add 1% for water charges				8.67
	TOTAL				875.67
	Add for contractor's profit and overheads @15%				131.35
	Cost of 59.83 sqm.				1 007.02
	Cost for 1 sqm				16.83
	Say				16.85

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
1002	(a) 6mm dia. M.S. bars (round) 2 Nos. @ 30 meter/10sqm. = 60 metre @ 0.22kg/m =13.2 kg-	quintal	0.132	3100.00	409.20
2205	(B) Carriage of M.S. Bars	tonne	0.0132	47.29	0.62
9999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				411.64
	Add 1% for water charges				4.12
	TOTAL				415.76
	Add for contractor's profit and overheads @ 15%				62.36
	Cost for 10 sqm.				478.12
	Cost for 1 sqm.				47.81
	Say				47.80

6.16 Tile brick masonry with tite bricks of class designation 100 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.				
	Materials :				
1984	Brick tiles of class designation 100	1000 Nos	777.00	1950.00	1 515.15
	Cement mortar 1:4(1 Cement: 4 coarse sand) (Rate as per item no. 3.9)	cum	0.40	2578.45	1 031.38
2207	Carriage or brick tiles	1000 Nos	777.00	85.13	66.15
9999	Sundries	L.S.	4.55	1.00	4.55
	Labour:				
0123	Mason 1st class	Day	0.70	151.50	106.05
0124	Mason 2nd class	Day	0.70	141.60	99.12
0115	Coolie	Day	1.54	135.25	208.28
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				3 058.37
	Add 1 % for water charges				30.58
	TOTAL				3 088.95
	Add for contractor's profit and overheads @ 15%				463.34
	Cost for 1 cum.				3 552.29
	Say				3552.30

6.16 Tile brick masonry with tite bricks of class designation 100 in foundation and plinth in:
6.16.2 Cement mortar 1 : 6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
1984	Brick tiles of class designation 100	1000 Nos	777.00	1950.00	1 515.15
	Cement mortar 1:6(Rate as per item no. 3.11)	cum	0.40	2578.45	794.92
2207	Carriage or brick tiles	1000 Nos	777.00	85.13	66.15
9999	Sundries	L.S.	4.55	1.00	4.55
	Labour:				
0123	Mason 1st class	Day	0.70	151.50	106.05
0124	Mason 2nd class	Day	0.70	141.60	99.12
0115	Coolie	Day	1.54	135.25	208.28
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				2 821.91
	Add 1 % for water charges				28.22
	TOTAL				2 850.13
	Add for contractor's profit and overheads @ 15%				427.52
	Cost for 1 cum.				3 277.65
	Say				3 277.65

6.17 Tile brick masonry with machine moulded tile bricks of class designation 125 conforming to IS : 2690 (Part I) -1993 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.				
	MATERIALS				
7904	Machine moulded tile bricks of class designation 125	1000 Nos	777.00	2 717.00	2111.11
2207	Carriage of Brick tiles	1000 Nos	777.00	85.13	66.15
	Cement mortar 1:6 (1 cement: 6 coarse sand). (Rates as per item no. 3.11)	cum	0.40	1 987.30	794.92
9999	Sundries	L.S.	4.55	1.00	4.55
	LABOUR:				
0123	Mason 1st Class	Day	0.70	151.50	106.05
0124	Mason IInd Class	Day	0.70	141.60	99.12
0115	Coolie	Day	1.54	135.25	208.28
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				3417.87
	Add 1% for water charges				34.18
	TOTAL				3452.05
	Add for contractor's profit and overheads @ 15%				517.81
	Cost of 1 Cum.				3969.86
	Say				3969.85

6.18 Tile brick masonry with tile brick of class designation 100 in superstructure above Plinth level upto floor V level in cement mortar 1:6 (1 cement :6coarse sand).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
1984	Tile bricks of class designation 100	1000 Nos	777.00	1950.00	1515.15
2207	Carriage of Brick tiles	1000 Nos	777.00	85.13	66.15
	Cement mortar 1:6 (1 cement: 6 coarse sand).(Rate as item no. 3.11)	cum	0.40	1987.30	794.92
9999	Sundries	L.S.	4.55	1.00	4.55
	LABOUR:				
0123	Mason 1st Class	Day	0.90	151.50	136.35
0124	Mason Ilnd Class	Day	0.90	141.60	127.44
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
	Extra labour for lifting of materials				
0115	Coolie	Day	1.13	135.25	152.83
9999	Cost of scaffolding	L.S.	33.80	1.00	33.80
	TOTAL				3074.65
	Add for water charges @ 1 %				30.75
	TOTAL				3105.39
	Add for contractor's profit and over-heads @15%				465.81
	Cost of 1 cum.				3571.20
	Say				3571.20

6.19 Extra for tile brick masonry with tile bricks of class designation 100 in superstructure above floor five level for every four floors or part thereof.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Extra labour element for lifting of materials (upto floor V level)				
	0.75x2.00= 1.50				
0115	Coolie	Day	1.50	135.25	202.88
	TOTAL				202.88
	Add 1% for water charges				2.03
	TOTAL				204.91
	Add for contractor's profit and overheads @ 15%				30.74
	Cost for 1 cum.				235.65
	Say				235.65

6.20 Tile brick masonry with tite bricks of class designation 100 in plain arch work in superstructure 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.				
	MATERIALS				
1984	Tile bricks	1000 Nos	777.00	1,950.00	1,515.15
2207	Carriage of Brick tiles	1000 Nos	777.00	85.13	66.15
	Cement mortar 1:4 (Rate as per item no 3.9)	cum	0.35	2,578.45	902.46
9999	Sundries	L.S.	5.46	1.00	5.46
	Centering and shuttering				
	Area same as in item no 6.9	sqm	2.25	514.70	1,158.08
(A)	Rate as per item no. 5.9.9				
9999	Scaffolding	L.S.	18.85	1.00	18.85
	Labour:				
0123	Mason 1st Class	Day	0.79	151.50	119.68
0124	Mason IInd Class	Day	0.79	141.60	111.86
0115	Coolie	Day	3.21	135.25	434.15
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				4,359.53
	Add 1% for water charges on all except A				32.01
	TOTAL				4,391.54
	Add for contractor's profit and overheads @ 15% on all except A				485.02
	Cost of 1 Cum.				4,876.56
	Say				4,876.55

6.21 Tile brick masonry with tile bricks of class designation 100 in gauged arch work in superstructure in cement mortar 1:4 (1 cement: 4 coarse sand) including centring and shuttering complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS				
1984	Tile bricks	1000 Nos	791.00	1,950.00	1,542.45
2207	Carriage of tiles Brick	1000 Nos	791.00	85.13	67.34
	Cement mortar 1:4 (Rate as per item no 3.9)	cum	0.35	2,578.45	902.46
9999	Sundries and shuttering	L.S.	5.46	1.00	5.46
	Centering and shuttering				
	Area same as in item no 6.9				
(A)	Rate as per item no. 5.9.9	sqm	2.25	514.70	1,158.08
9999	Scaffolding	L.S.	18.85	1.00	18.85
	Labour:				
0123	Mason 1st Class	Day	1.50	151.50	227.25
0124	Mason IInd Class	Day	1.50	141.60	212.40
0115	Coolie	Day	5.33	135.25	720.88
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				4,882.86
	Add for water charges @1% on all except 'A'				37.25
	TOTAL				4,920.11
	Add for contractor's profit and overheads @ 15% on all except 'A'				564.30
	Cost of 1 Cum.				5,484.41
	Say				5,484.40

6.22 Tile brick masonry work 5 cm thick with tile bricks of class designation 100 in cement mortar in 1:3 (1 cement: 3 coarse sand) in superstructure.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
1984	Tile bricks (22.9cmx 11.2cmx5cm)	1000 Nos	377.00	1,950.00	735.15
2207	Carriage of tile bricks	1000 Nos	377.00	85.13	32.09
	Cement mortar 1:3 (Rate as per item no. 3.8)	cum	0.15	3,169.60	475.44
9999	Sundries and scaffolding	L.S.	8.06	1.00	8.06
	LABOUR:				
0123	Mason 1st class	Day	0.94	151.50	142.41
0124	Mason 2nd class	Day	0.94	141.60	133.10
0115	Coolie	Day	1.88	135.25	254.27
0101	Bhishti	Day	0.33	138.45	45.69
	TOTAL				1,826.21
	Add 1% for water charges				18.26
	TOTAL				1,844.47
	Add 15% for contractor's profit and overheads				276.67
	Cost of 10 Sqm.				2,121.14
	Cost per sqm.				212.11
	Say				212.10

6.23 Honey-comb brick work 10/11.4 cm thick with bricks of class designation 75 in cement mortar in 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1sqm. of Honey comb brick works-Materials :				
	(1) 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 Rate as per item no 6.4.1	cum	0.069	2,601.90	179.53
9999	(A) (2) Extra for delay due to fine work	L.S	20.67	1.00	20.67
	TOTAL				200.20
	(B) Add for water charges @ 1 % on 'A'				0.21
	TOTAL				200.41
	Add for contractor's profit and overheads @ 15% on A+B				3.13
	Cost for 1 sqm.				203.54
	Say				203.55

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.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for depth of water 0.30m.				
	Quantity of concrete = 14 cum.				
	Pumping hours = 3 hrs. or 0.375 days.				
0011	Hire charge of pump set of capacity 4000 ltr/hr.	Day	0.375	300.00	112.50
0114	Beldar for cleaning slush	Day	4.00	135.25	541.00
	TOTAL				653.50
	Add 1% for water charges				6.54
	TOTAL				660.04

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15% Cost of 14 cum. per 0.30m depth Cost of 1 cum. per m depth Say				99.01 759.05 180.73 180.75

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

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 1st class	Day	0.02	151.50	3.03
0124	Mason 2nd class	Day	0.02	141.60	2.83
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	0.15	135.25	20.29
	TOTAL				59.96
	Add 1% for water charges				0.60
	TOTAL				60.56
	Add for contractor's profit and overheads @ 15%				9.08
	Cost for 1 cum.				69.64
	Say				69.65

6.26 Brick work with selected F.P.S. bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement: 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
2602	Bricks of class designation 75	1000 Nos	494.00	1,900.00	938.60
2201	Carriage of bricks	1000 Nos	494.00	141.88	70.09
	Cement mortar 1:6(1 cement: 6 coarse sand) (Rate as per item no. 3.11)	cum	0.25	1,987.30	496.82
9999	Sundries including steel/wooden strips for making grooves.	L.S.	16.38	1.00	16.38
	Labour:				
	For selection of bricks				
0114	Beldar	Day	0.50	135.25	67.62
0123	Mason 1 st class	Day	0.35	151.50	53.02
0124	Mason 2nd class	Day	0.35	141.60	49.56
0115	Coolie	Day	1.07	135.25	144.72
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				1,864.50
	Add 1 % for water charges				18.64
	TOTAL				1,883.14
	Add for contractor's profit and overheads @ 15%				282.47
	Cost per cum.				2,165.61
	Say				2,165.60

6.27 Brick work with modular bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement: 6 coarse sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7900	Modular bricks of class designation 75	1000 Nos	487.00	2,050.00	998.35
2201	Carriage of Bricks	1000 Nos	487.00	141.88	69.10
	Cement mortar 1:6 (1 cement: 6 coarse sand (Rate as per item no. 3.11)	cum	0.22	1,987.30	437.21
9999	Sundries l/c steel/ wooden strips for-making grooves	L.S.	16.38	1.00	16.38
	LABOUR:				
0123	Mason 1st Class	Day	0.33	151.50	50.00
0124	Mason IInd Class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				1,777.94
	Add 1% for water charges				17.78
	TOTAL				1,795.72
	Add for contractor's profit and overheads @ 15%				269.36
	Cost of 1 Cum.				2,065.08
	Say				2,065.10

6.28 Brick work with machine moulded modular bricks of class designation 125 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement: 6 coarse sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
1986	Modular Bricks of class designation 75	1000 Nos	487.00	2,700.00	1,314.90
2201	Carriage of bricks	1000 Nos	487.00	141.88	69.10
	Cement mortar 1:6(1 cement: 6 coarse sand (Rate as per item no 3.11)	cum	0.22	1987.30	437.21
9999	Sundries including steel/wooden strips for making grooves.	L.S.	16.38	1.00	16.38
	Labour:				
0123	Mason 1 st class	Day	0.33	151.00	50.00
0124	Mason 2nd class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				2,094.49
	Add 1 % for water charges				20.94
	TOTAL				2,115.43
	Add for contractor's profit and overheads @ 15%				317.31
	Cost per cum.				2,432.74
	Say				2,432.75

6.29 Brick work with machine moulded F.P.S. bricks of class designation 125 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete from ground level upto plinth level in cement mortar 1:6(1 cement: 6 coarse sand).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7903	Machine moulded modular perforated bricks of class designation 125	1000 Nos	494.00	2,767.00	1,366.9
2201	Carriage of Bricks	1000 Nos	494.00	14.88	70.09
	Cement mortar 1:6,(1 cement: 6 coarse sand). (Rate as per item no 3.11)	cum	0.25	1,987.30	496.82
9999	Sundries i/c steel /wooden strips for making grooves	L.S.	16.38	1.00	16.38
	LABOUR:				
0123	Mason 1st Class	Day	0.36	151.50	54.54
0124	Mason IInd Class	Day	0.36	141.60	0.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhishti	Day	0.2	138.25	27.69
	TOTAL				2,268.69
	Add 1 % for water charges				22.69
	TOTAL				2,291.38
	Add for contractor's profit and overheads @ 15%				343.71
	Cost of 1 Cum.				2,635.09
	Say				2,635.10

6.30 Brick work with machine moulded perforated F.P.S. bricks of class designation 125 conforming IS : 2222-1991 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete from ground level upto plinth level in cement mortar 1:6(1 cement: 6 coarse sand).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7901	Machine moulded modular perforated bricks of class designation 125	1000 Nos	494.00	3,233.00	1 597.10
2201	Carriage of Bricks	1000 Nos	494.00	141.88	70.09
2115	Cement mortar 1:6,(1 cement: 6 coarse sand). (Rate as per item no 3.11)	cum	0.25	1,987.30	496.82
9999	Sundries i/c steel /wooden strips for making grooves	L.S.	16.38	1.00	16.38
	LABOUR:				
0123	Mason 1st Class	Day	0.35	151.50	54.54
0124	Mason IInd Class	Day	0.35	141.60	50.98
0115	Coolie	Day	1.07	135.25	185.29
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				2,498.89
	Add 1 % for water charges				24.99
	TOTAL				2,523.88
	Add for contractor's profit and overheads @ 15%				378.58
	Cost of 1 Cum.				2,902.46
	Say				2,902.45

6.31 Brick work with machine moulded perforated modular bricks of class designation 125 conforming to IS : 2222 -1991 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement: 6 coarse sand).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	MATERIALS :				
7902	Machine moulded modular perforated bricks of class designation 125	1000 Nos	487.00	3,200.00	1,558.40
2201	Carriage of Bricks	1000 Nos	487.00	141.88	69.10
	Cement mortar 1:6 (1 cement: 6 coarse sand). (Rate as per item no 3.11)	cum	0.22	1,987.30	437.21
9999	Sundries i/c steel /wooden strips for making grooves	L.S.	16.38	1.00	16.38
	LABOUR:				
0123	Mason 1st Class	Day	0.33	151.50	50.00
0124	Mason IInd Class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				2,337.99
	Add 1 % for water charges				23.38
	TOTAL				2,361.37
	Add for contractor's profit and overheads @ 15%				354.21
	Cost of 1 Cum.				2,715.58
	Say				2,715.60

6.32 Brick work with clay fly-ash F.P.S. brick of class designation 75 in superstructure above plinth level upto floor five level in :

6.32.1 Cement mortar 1:4(1 cement : 4 coarse sand)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
7008	Clay flyash bricks of class designation 75	1000 Nos	494.00	1412.00	697.53
	Cement mortar1: 4 (1 cement: 4 coarse sand) (Rate as per item no 3.11)	cum	0.25	2,578.45	644.61
2201	Carriage of bricks '	1000 Nos.	494.00	141.88	70.09
9999	Sundries	L.S.	2.75	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.47	151.50	71.20
0124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L .S.	8.97	1.00	8.97
	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	135.25	152.83
	TOTAL				1,985.65
	Add 1 % for water charges				19.86
	TOTAL				2,005.51
	Add for contractor's profit and overheads @ 15%				300.83
	Cost per cum.				2,306.34
	Say				2,306.35

6.32 Brick work with clay flyash F.P.S. brick of class designation 75 in superstructure above plinth level upto floor five level in :

6.32.2 Cement mortar 1:6(1 cement: 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
7008	Clay flyash bricks of class designation 75	1000 Nos	494.00	1,412.00	697.53
	Cement mortar 1 : 6(1 cement: 6 coarse sand) (Rate as per item no 3.11)	cum	0.25	1,987.30	496.82
2201	Carriage of bricks	1000 Nos	494.00	141.88	70.09
9999	Sundries	L.S.	2.73	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.47	151.50	71.20
0124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S	8.97	1.00	8.97
	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	135.25	152.83
	TOTAL				1,837.86
	Add 1% for water charges				18.38
	TOTAL				1,856.24
	Add for contractor's profit and overheads @ 15%				278.44
	Cost per cum.				2,134.68
	Say				2,134.70

6.33 Extra for exposed brick work/clay flyash brick work in superstructure above floor five level, for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for per cum. per four floor				
	Extra labour element required for lifting of materials				
	0.75x2.00=1.50				
0115	Coolie	Day	1.50	135.25	202.88
	TOTAL				202.88
	Add 1 % for water charges				2.03
	TOTAL				204.91
	Add for contractor's profit and overheads @ 15%				30.74
	Cost of 1 Cum.				235.65
	Say				235.65

6.34 Brick work with modular fly ash lime bricks (FALG Bricks) conforming to IS: 12894-2002, class designation 100 average compressive strength in super structure above plinth level upto 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.				
	Materials:				
7737	Fly ash bricks of class designation 100	1000 Nos	487.00	1,792.00	872.70
	Cement mortar 1 : 4 (1 cement: 4 coarse sand) (Rate as per Item No. 3.9)	cum	0.22	2,578.45	567.26
2201	Carriage of bricks'	1000 Nos	487.00	141.88	69.10
9999	Sundries	L.S.	2.73	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.47	151.50	71.20
0124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S.	22.36	1.00	22.36
	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	135.25	152.83
	TOTAL				2,095.87
	Add 1 % for water charges				20.96
	TOTAL				2,116.83
	Add for contractor's profit and overheads @ 15%				317.52
	Cost per cum.				2,434.35
	Say				2,434.35

6.34 Brick work with modular fly ash lime bricks (FALG Bricks) conforming to IS: 12894-2002, class designation 100 average compressive strength in super structure above plinth level upto floor V level in :

6.34.2 Cement mortar 1:6(1 cement: 6 Coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	Materials :				
7737	Fly ash bricks of class designation 100	1000 Nos	487.00	1,792.00	872.70
	Cement.mortar 1:6 (1 cement: 6 coarse sand) Rate as per Item No. 3.11	cum	0.22	1,987.30	437.21
2201	Carriage of brick's	1000 Nos	487.00	141.88	69.10
9999	Sundries				
	Labour:	L.S.	2.73	1.00	2.73
0123	Mason 1st class	Day	0.47	151.50	71.20
0124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S.	22.36	1.00	22.36
	Extra labour element required for lifting of materials above floor two level upto floor V level				
0115	Coolie (0.75x1.5= 1.13)	Day	1.13	135.25	152.83
	TOTAL				1,965.82
	Add 1% for water charges				19.66
	TOTAL				1,985.48
	Add for contractor's profit and overheads @ 15%				297.82
	Cost per cum.				2,283.30
	Say				2,283.30

6.35 Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139-1989, class designation 100 average compressive strength in super structure above plinth level upto 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.				
	Materials :				
7738	Calcium silicate bricks of class designation100	1000 Nos	487.00	3,083.00	501.42
	Cement mortar 1 : 4 (1 cement : 4 coarse sand) (Rate as per item No 3.9)	cum	0.22	2,578.45	567.26
2201	Carriage of bricks	1000 Nos	487	141.88	69.10
9999	Sundries	L.S.	2.73	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.47	151.50	71.20
0 124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S.	22.36	1.00	22.36
	Extra labour element required for lifting of materials above floor two level upto floor V level				
O115	Coolie (0.7 x 1.5 = 1.13)	Day	1.13	135.25	152.83
	TOTAL				2,724.59
	Add 1 % for water charges				27.25
	TOTAL				2,751.84
	Add for contractor's profit and overheads @ 15%				412.78
	Cost per cum.				3,164.62
	Say				3,164.60

6.35 Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139-1989, class designation 100 average compressive strength in super structure above plinth level upto floor V level in :

6.35.2 Cement mortar 1:6 (1 cement: 6 Coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Materials :				
7738	Calcium silicate bricks of class designation 100	1000 Nos	487.00	3,083.00	1501.42
	Cement .mortar 1:6(1 cement: 6 coarse sand) (Rate as per item No. 3.9)	cum	0.22	1,987.30	437.21
2201	Carriage of bricks	1000 Nos	487.00	141.88	69.10
9999	Sundries	L.S.	2.73	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.47	151.50	71.20
0124	Mason 2nd class	Day	0.47	141.60	66.55
0115	Coolie	Day	1.80	135.25	243.45
0101	Bhishti	Day	0.20	138.45	27.69
9999	Scaffolding	L.S.	22.36	1.00	22.36
	Extra labour element required for lifting of materials above floor two level upto floor V level				
0115	Coolie (0.75 x 1.5 = 1.13)	Day	1.13	135.25	152.83
	TOTAL				2,594.54

Code	Description	Unit	Quantity	Rate	Amount
	Add 1 % for water charges				25.95
	TOTAL				2,620.49
	Add for contractor's profit and overheads @ 15%				393.07
	Cost per cum.				3,013.56
	Say				3,013.55

6.36 Brick work with modular extruded burnt fly ash clay sewer bricks (Conforming to IS: 4885 - 1988) 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.				
	Materials :				
7736	Extruded burnt flyash clay sewer bricks	1000 Nos	487.00	3,550.00	1,728.85
	Cement mortar 1:4(1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.22	2,578.45	567.26
2201	Carriage of bricks	1 000 Nos	487.00	141.88	69.10
9999	Sundries	L.S.	2.73	1.00	2.73
	Labour:				
0123	Mason 1st class	Day	0.33	151.50	50.00
0124	Mason 2nd class	Day	0.33	141.60	46.73
0115	Coolie	Day	1.00	135.25	135.25
0101	Bhishti	Day	0.18	138.45	24.92
	TOTAL				2,624.84
	Add 1 % for water charges				26.25
	TOTAL				2,651.09
	Add for contractor's profit and overheads @ 15%				397.66
	Cost per cum.				3,048.75
	Say				3,048.75

6.37 Brick work with modular extruded burnt fly ash clay sewer bricks (conforming to IS : 4885-1988) 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.				
	Materials :				
7736	Extruded burnt flyash clay sewer bricks	1000 Nos	487.00	3,550.00	1,728.85
	Cement mortar 1: 3 (1 cement: 3 fine sand). (Rate as per item No. 3.3)	cum	0.25	2,870.00	717.50
2201	Carriage of bricks	1000 Nos	487.00	141.88	69.10
9999	Sundries	L.S.	2.73	1.00	2.73
(A)	Centering and shuttering				
	(Rate as per item no 5.9.9 SH : RCC)	sqm	2.25	514.70	1 158.08
	Labour:				
0123	Mason 1st class	Day	0.42	151.50	63.63
0124	Mason 2nd class	Day	0.42	141.60	59.47
0115	Coolie	Day	1.86	135.25	251.57
0101	Bhishti	Day	0.20	138.45	27.69
	TOTAL				4,078.62
	Add 1 % for water charges except on A				29.21
	TOTAL				4,107.83
	Add for contractor's profit and overheads @ 15% except on A				442.46
	Cost per cum				4,550.29
	Say				4,550.30

6.38 Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level upto 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.				
	MATERIALS :				
8655	Autoclaved aerated cement (AAC) blocks.	cum	1.00	1,650.00	1,650.00
	Cement mortar 1:4	cum	0.15	2,578.45	386.77
	(Rate as per Item No. 3.9)				
2208	Carriage of AAC blocks	cum	1.00	53.21	53.21
9999	Sundries	L.S	2.73	1.00	2.73
	LABOUR:				
0123	Mason 1st Class	Day	0.36	151.50	54.54
0124	Mason IInd Class	Day	0.36	141.60	50.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhishti	Day	0.20	138.45	27.69
(A)	Reinforcement bars				
	Rate as per item no 5.22.1 of SH : RCC	kg	13.20	41.50	547.80
	TOTAL				2,959.01
	Add 1 % for water charges except on (A)				24.11
	TOTAL				2,983.12
	Add for contractor's profit and overheads @ 15% except on (A)				365.30
	Cost of 1 Cum.				3,348.42
	Say				3,348.40

6.39 Extra for AAC block masonry in superstructure above floor V level for every four floors or part there of.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum per floor				
	Extra labour element required for lifting of materials.				
0115	Coolie (0.75 x 2 = 1.50)	Day	1.50	135.25	202.88
	TOTAL				202.88
	Add 1% for water charges				2.03
	TOTAL				204.91
	Add for contractor's profit and overheads @ 15%				30.74
	Cost per cum.				235.65
	Say				235.65

6.40 Providing and laying Gypsum panel partitions 100mm thick with water proof Gypsum panels of size 666x500x100mm, made of 'calcite phosphor of Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level upto floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm^2

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	544.00	5,440.00
8657	Bonding plaster for Gypsum panel.	kg	25.00	50.00	1,250.00
9999	Sundries & scaffolding	L.S.	13.52	1.00	13.52
	LABOUR				

Code	Description	Unit	Quantity	Rate	Amount
0123	Mason (brick layer) 1st class	Day	0.50	151.50	75.75
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				6,914.52
	Add 1 % for water charges				69.15
	TOTAL				6,983.67
	Add 15% for contractor's profit and overheads				1,047.55
	Cost for 10 sqm				8,031.22
	Cost for 1 sqm				803.12
	Say				803.10

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 floor				
	Extra labour element for lifting of materials above floor V level.				
0115	Coolie	Day	1.73	135.25	233.98
	Total				233.98
	Add for water charges @ 1%				2.34
	Total				236.32
	Add for contractor's profit and overheads @ 15%				35.45
	Cost for 10 sqm.				271.77
	Cost for 1 sqm				27.18
	Say				27.20

6.42 Brick work with mechanised autoclaved flyash lime bricks conforming to I:S 12894 : 2002 of class designation 100 in superstructure above plinth level upto floor V level in.

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of Cost for 10 cum				
	MATERIALS				
8658	Mechanised Autoclaved flyash lime bricks.	1000 Nos	494.00	2,200.00	1,086.80
	Cement morter 1:4 (1 cement: 4 coarse sand). (Rate as per item no 3.9)	cum	0.25	2,578.45	644.61
2201	Carriage of Bricks	1000 Nos	494.00	141.80	70.09
9999	Sundries	L.S.	2.73	1.00	2.73
0123	Mason 1st class	Day	0.36	151.50	54.54
0124	Mason 2nd class	Day	0.36	141.60	50.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhisti	Day	0.20	138.45	27.69
	TOTAL				2,122.73
	Add for water charges @ 1 %				21.23
	TOTAL				2,143.96
	Add for contractor's profit and overheads @15%				321.59
	Cost for 1 cum				2,465.55
	Say				2,465.55

6.42 Brick work with mechanised autoclaved flyash lime bricks conforming to IS: 12894 :2002 of class designation 100 in superstructure above plinth level upto floor V level in.

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

Code	Description	Unit	Quantity	Rate	Amount
	Details of Cost for 10 cum				
	MATERIALS				
8658	Mechanised Autoclaved flyash lime bricks.	1000 Nos	494.00	2,200.00	1,086.80
	Cement morter 1:6 (1 cement: 6 coarse sand). (Rate as per item no 3.11)	cum	0.25	1,987.30	496.82
2201	Carriage of Bricks	1000 Nos	494.00	141.88	70.09
9999	Sundries	L.S.	2.73	1.00	2.73
0123	Mason 1st class	Day	0.36	151.50	54.54
0124	Mason 2nd class	Day	0.36	141.60	50.98
0115	Coolie	Day	1.37	135.25	185.29
0101	Bhisti	Day	0.21	138.45	27.69
	TOTAL				1,974.94
	Add for water charges @ 1%				19.75
	TOTAL				1,994.69
	Add for contractor's profit and overheads @ 15%				299.20
	Cost for 1 cum				2,293.89
	Say				2,293.90

6.43 Extra for mechanised autoclave flyash lime bricks conforming to IS: 12894- 1990 of class designation 100 in superstructure above floor V level for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for per cum. per four floors				
	Extra labour element required for lifting of materials				
	0.75x2.00= 1.50				
0115	Coolie	Day	1.50	135.25	202.88
	TOTAL				202.88
	Add 1 % for water charges				2.03
	TOTAL				204.91
	Add for contractor's profit and overheads @ 15%				30.74
	Cost of 1 Cum.				235.65
	Say				235.65

6.44 Brick edging 7cm wide 11.4cm deep to plinth protection with bricks of class designation 75 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	L.S.	2.73	1.00	2.73
	2nd class bricks = 42 nos. +				
	Add wastage @ 10% = 4.2 nos.				
	= 46.2 nos.				
	Say 46.00 nos.				
2602	Bricks of class designation 75	1000 Nos	46.00	1 900.00	87.40
2201	Carriage of bricks	1000 Nos	46.00	141.88	6.53
	Cement mortat 1:4 (Rate as per item no. 3.4)	cum	0.0036	2 278.85	8.20
	Labour				
0155	Mason	Day	0.10	146.55	14.66

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.10	135.25	13.52
0101	Bhisti	Day	0.03	138.45	4.15
9999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				139.92
	Add 1 % for water charges				1.40
	TOTAL				141.32
	Add 15% for contractor's profit and overheads				21.20
	Cost of 10 metres				162.52
	Cost of 1 metre				16.25
	Say				16.25

SUB HEAD : 7.0

STONE WORK

7.1 : Random rubble masonry with hard stone in foundation and plinth including levellingup with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at 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.				
	Materials :				
1157	Stone at quarry	cum	1.00	332.00	332.00
1154	Through and bond stones 7 nos.	100 Nos	7.00	970.00	67.90
	Carriage of stone-				
	7.00x24cmx24cmx39cm = 0.16 cum.				
2215	1 .OOcum. + 0.16 cum. = 1.16 cum.	cum	1.16	62.60	72.62
	Cement mortar 1:6 (1 cement: 6 Coarse sand)	cum	0.33	1987.30	655.81
	LABOUR				
	Rate as per item no. 3.11				
0125	Mason 2nd class	Day	1.07	141.60	151.51
0114	Beldar	Day	1.07	135.25	144.72
0115	Coolie	Day	0.71	135.25	96.03
0101	Bhishti	Day	0.09	138.45	12.46
9999	Cement concrete 1:6:12	L.S.	45.76	1.00	45.76
9999	Sundries	L.S.	4.42	1.00	4.42
	TOTAL				1 583.23
	Add 1% for water charges				15.83
	TOTAL				1 599.06
	Add ,15% for contractor's profit and overheads				239.86
	Cost of 1 cum.				1 838.92
	Say				1 838.90

7.2 : Extra for random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
9999	Scaffolding etc.	L.S.	67.34	1.00	67.34
	Labour:				
9999	Labour for laying cement concrete	L.S.	10.79	1.00	10.79
0125	Mason (2nd class)	Day	0.27	141.60	38.23
0114	Beldar	Day	0.38	135.25	51.40
	Extra labour for lifting of materials upto floor				
	V level-0.75xl.50= 1.13				
0115	Coolie	Day	1.13	135.25	152.83
	TOTAL				320.59
	Add 1% for water charges				3.21
	TOTAL				323.80
	Add 15% for contractor's profit and overheads				48.57
	Cost of 1 cum.				372.37
	Say				372.35

7.3 : Extra for random rubble masonry with hard stone in superstructure above floor V level for every four floors or part thereof

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
	Labour required for lifting of materials				
	1.0x2.0 = 2.00				
0114	Beldar	Day	2.00	135.25	270.50
	TOTAL				270.50
	Add 1% for water charges				2.70
	TOTAL				273.20
	Add 15% for contractor's profit and overheads				40.98
	Cost of 1 cum.				314.18
	Say				314.20

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 (2nd class)	Day	0.58	141.60	82.13
0115	Coolie	Day	0.27	135.25	36.52
	TOTAL				118.65
	Add 1% for water charges				1.19
	TOTAL				119.84
	Add 15% for contractor's profit and overheads				17.98
	Cost of 1 cum.				137.82
	Say				137.80

7.4 : Extra for random rubble masonry with hard stone in
7.4.2 : Circular pillars.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
1157	Extra stone	cum	0.29	332.00	96.28
2215	Carriage.	cum	0.29	62.60	18.15
	Labour:				
	Labour for cutting and dressing stones-				
0125	Mason (2nd class)	Day	1.42	141.60	201.07
0115	Coolie	Day	0.35	135.25	47.34
	Total				362.84
	Add 1 % for water charges				3.63
	Total				366.47
	Add 15% for contractor's profit and overheads.				54.97
	Cost of 1 cum				421.44
	Say				421.45

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	Extra stone	cum	0.10	332.00	33.20
2215	Carriage of stone	cum	0.10	62.60	6.26
	Labour for cutting and dressing stones-				
0125	Mason (2nd class)	Day	0.27	141.60	38.23
115	Coolie	Day	0.53	135.25	71.68
	TOTAL				149.37
	Add 1 % for water charges				1.49
	TOTAL "				150.86
	Add 15% for contractor's profit and overheads				22.63
	Cost of 1 cum.				173.49
	Say				173.50

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.				
	Materials-				
	Cement mortar l:6 (Rate as per item No.3.11)	cum	0.30	1 987.30	596.19
1157	Stone at quarry	cum	1.21	332.00	401.72
1154	Through and bond stone 7 nos.	100 Nos	7.00	970.00	67.90
	Carriage of stone				
	7.00x24cmx24cmx39cm = 0.16 cum.				
2215	1.21+0.16=1.37 cum.	cum	1.37	62.60	85.76
	Labour:				
0125	Mason (2nd class)	Day	2.12	141.60	300.19
0114	Beldar	Day	1.24	135.25	167.71
0115	Coolie	Day	0.71	135.25	96.03
0101	Bhisti	Day	0.09	138.45	12.46
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				1 741.48
	Add 1% for water charges				17.41
	TOTAL				1 758.89
	Add 15% for contractor's profit and overheads				263.83
	Cost of 1 cum.				2 022.72
	Say				2 022.70

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.				
	Materials-				
	Cement mortar l:6 (Rate as per item No.3.11)	cum	0.30	1987.30	596.19
1157	Stone at quarry	cum	1.10	332.00	365.20
1154	Through and bond stones 7 nos.	100 Nos	7.00	970.00	67.90
	Carriage of stone				
	7.00x24cmx24cmx39cm = 0.16 cum.				
2215	1.10+0.16 cum = 1.26 cum.	cum	1.26	62.60	78.88
	Labour:				
0125	Mason (2nd class)	Day	1.76	141.60	249.22
0114	Beldar	Day	1.24	135.25	167.71
0115	Coolie	Day	0.71	135.25	96.03

Code	Description	Unit	Quantity	Rate	Amount
0101	Bhisti	Day	0.09	138.45	12.46
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				1 647.11
	Add 1% for water charges				16.47
	TOTAL				1 663.58
	Add 15% for contractor's profit and overheads				249.54
	Cost of 1 cum.				1 913.12
	Say				1 913.10

7.8 : Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
9999	Scaffolding etc.	L.S.	9.30	2.60	24.18
	Labour:				
0125	Mason (2nd class)	Day	0.26	141.60	36.82
0114	Beldar	Day	0.35	135.25	47.34
	Extra labour for lifting of materials upto floor V level				
	1.0x1.50= 1.50				
0115	Coolie	Day	1.50	135.25	202.88
	TOTAL				311.22
	Add 1 % for water charges				3.11
	TOTAL				314.33
	Add 15 %for contractor's profit and overheads				47.15
	Cost of 1 cum.				361.48
	Say				361.50

7.9 : Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost per floor per cum.				
	Labour required for lifting of material				
	1.00x2.00=2.00				
0114	Beldar	Day	2.00	135.25	270.50
	TOTAL				270.50
	Add 1% for water charges				2.70
	TOTAL				273.20
	Add 15% for contractor's profit and overheads				40.98
	Cost of 1 cum.				314.18
	Say				314.20

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 (2nd class)	Day	0.67	141.60	94.87
0115	Coolie	Day	0.27	135.25	36.52
	TOTAL				131.39
	Add 1% for water charges				1.31
	TOTAL				132.70
	Add. 15% for contractor's profit and overheads				19.90
	Cost of 1 cum.				152.60
	Say				152.60

7.10 : Extra for coursed rubble masonry with hard stone (first or second sort) in :
7.10.2 : Circular pillars.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.				
1157	Extra stones.	cum	0.32	332.00	106.24
2215	Carriage of stone	cum	0.32	62.60	20.03
	Labour:				
	Labour for cutting and dressing :				
0125	Mason (2nd class)	Day	1.67	141.60	236.47
0115	Coolie	Day	0.35	135.25	47.34
	Total				410.08
	Add 1 % for water charges.				4.10
	Total				414.18
	Add 15% for contractor's profit and overheads.				62.13
	Cost of 1 cum				476.31
	Say				476.30

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.				
1157	Extra stones	cum	0.11	332.00	36.52
2215	Carriage of stone	cum	0.11	62.60	6.89
	Labour for cutting and dressing:				
0125	Mason (2nd class)	Day	0.33	141.60	46.73
0115	Coolie	Day	0.53	135.25	71.68
	TOTAL				161.82
	Add 1% for water charges				1.62
	TOTAL				163.44
	Add. 15% for contractor's profit and overheads				24.52
	Cost of 1 cum.				187.96
	Say				187.95

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 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
1160	Total = 13.33 cudm.	10 cudm	13.33	45.00	59.98
	Cost of stone				
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = tonne 0.031 t.	tonne	0.031	47.29	1.47
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0125	Stone mason (plane work) 2nd class	Day	0.088	141.60	12.46
0102	Black smith 1 st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plan work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scafolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				121.86
	Add 1% for water charges				1.22
	TOTAL				123.08
	Add 15% for contractor's profit and overheads				18.46
	Cost of 10 cudm.				141.54
	Cost of 1 cum.				14,154.00
	Say				14,154.00

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.

7.12.1.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	White sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = tonne 0.031 t.	tonne	0.031	47.29	1.47
	Extra labour for lifting of materials upto floor V level.				
	0.01x1.50=0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.088	141.60	12.46
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				128.53
	Add 1% for water charges				1.29
	TOTAL				129.82
	Add.15% for contractor's profit and overheads				19.47
	Cost of 10 cudm.				149.29
	Cost of 1 cum.				14,929.00
	Say				14,929.00

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 :

7.12.2 : Both face dressed.

7.12.2.1 : Red sand stone.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
1160	Total = 13.33 cudm.	10 cudm	13.33	45.00	59.98
	Cost of stone				
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = tonne say 0.031 t.	tonne	0.031	47.29	1.47
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.176	141.60	24.92
0102	Blacksmith 1st class	Day	0.012	151.50	1.82
0114	Beldar	Day	0.088	135.25	11.90
0115	Coolie	Day	0.044	135.25	5.95
0100	Bandhani	Day	0.088	138.45	12.18
	Fixing charges				
	Labour:				
0125	Stone mason (plan work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scafolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				150.24
	Add 1 % for water charges				1.50
	TOTAL				151.74
	Add 15% for contractor's profit and overheads				22.76
	Cost of 10 cudm.				174.50
	Cost of 1 cum.				17, 450.00
	Say				17, 450.00

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 :

7.12.2 : Both face dressed.

7.12.2.2: White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	White sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3'.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm =	tonne	0.031	47.29	1.47
	13.33x2.30 = 30.659 kg = tonne say				
	0.031 t.				
	Extra labour for lifting of material upto floor				
	V level.				
	0.01x1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.176	141.60	24.92
0102	Blacksmith 1st class	Day	0.012	151.50	1.82
0114	Beldar	Day	0.088	135.25	11.90
0115	Coolie	Day	0.044	135.25	5.95
0100	Bandhani	Day	0.088	138.45	12.18
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				156.91
	Add 1 % for water charges				1.57
	TOTAL				158.48
	Add 15% for contractor's profit and overheads				23.77
	Cost of 10 cudm.				182.25
	Cost of 1 cum.				18, 225.00
	Say				18, 225.00

7.13 : Stone work plain ashlar in arches 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.

7.13.1 : Red sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1160	Cost of Stone	10 cudm	13.33	45.00	59.98
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = tonne say 0.031 t.	tonne	0.031	47.29	1.47
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.088	141.60	12.46
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S	8.06	1.00	8.06
9999	Centering and shuttering	L.S	13.52	1.00	13.52
9999	Extra for using white cement	L.S	8.06	1.00	8.06
	TOTAL				141.41
	Add 1% for water charges				1.41
	TOTAL				142.82
	Add 15% for contractor's profit and overheads				21.42
	Cost of 10 cudm.				164.24
	Cost of 1 cum.				16 ,424.00
	Say				16 ,424.00

7.13 : Stone work plain ashlar in arches in cement mortar 1:3 (1 cement: 3 coarse sand) i/c centring and shuttering and pointing with white cement mortar 1:2 (1 white cemetn: 2 stone dust) with an admixture of pigment matching the stone shade:

7.13.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	White sand stone				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm =	tonne	0.031	47.29	1.47

Code	Description	Unit	Quantity	Rate	Amount
	13.33x2.30=30.659 kg = tonne say 0.031 t				
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.088	141.60	12.46
0102	Blacksmith st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
9999	Centering and shuttering	L.S.	13.52	1.00	13.52
9999	Extra for using white cement	L.S.	8.06	1.00	8.06
	TOTAL				148.08
	Add 1 % for water charges				1.48
	TOTAL				149.56
	Add 15% for contractor's profit and overheads				22.43
	Cost of 10 cudm.				171.99
	Cost of 1 cum.				17, 199.00
	Say				17, 199.00

7.14 : Stone work plain ashlar in domes 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 Red sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1160	Cost of stone	10 cudm	13.33	45.00	59.98
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30=30.659 kg=tonne say 0.031 t	tonne	0.031	47.29	1.47
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.176	141.60	24.92
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0126	Stone mason (ornamental work)	Day	0.176	151.50	26.66
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
9999	Centring and shuttering	L.S.	33.15	1.00	33.15
9999	Extra for using white cement	L.S.	8.06	1.00	8.06
	TOTAL				200.16
	Add 1 % for water charges				2.00
	TOTAL				202.16
	Add 15%"Tor contractor's profit and overheads				30.32
	Cost of 10 cudm.				232.48
	Cost of 1 cum.				23, 248.00
	Say				23, 248.00

7.14 : Stone work plain ashlar in domes in cement mortar 1:3 (1 cement: 3 coarse sand) including c;entring shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.14.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	White sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30=30.659 kg=tonne say 0.031 t	tonne	0.031	47.29	1.47
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.176	141.60	24.92
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0126	Stone mason (ornamental work)	Day	0.176	151.50	26.66
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
9999	Centring and shuttering	L.S.	33.15	1.00	33.15
9999	Extra for using white cement	L.S.	8.06	1.00	8.06
	TOTAL				206.83
	Add 1 % for water charges				2.07
	TOTAL				208.90
	Add 15% for contractor's profit and overheads				31.34
	Cost of 10 cudm.				240.24
	Cost of 1 cum.				24, 024.00
	Say				24, 024.00

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 : Red sand stone.

7.15.1.1: One faced punched.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1160	Cost of stone	10 cudm	13.33	45.00	59.98
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30=30.659 kg= tonne say 0.031 t	tonne	0.031	47.29	1.47
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.059	141.60	8.35
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	Extra labour for lifting of materials upto floor V level= 0.01x1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	TOTAL				117.75
	Add 1 % for water charges				1.18
	TOTAL				118.93
	Add 15% for contractor's profit and overheads				17.84
	Cost of 10 cudm.				136.77
	Cost of 1 cum.				13677.00
	Say				13677.00

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 : Red sand stone.

7.15.1.2 : Double faced punched.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
	Add wastage @ 33.3% = 3.33 cudm.				
1160	Total = 13.33 cudm.	10 cudm	13.33	45.00	59.98
	Cost of stone				
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.031	47.29	1.47
	13.33x2.30 = 30.659 kg = tonne say 0.031 t.				
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.118	141.60	16.71
0102	Black smith 1st class	Day	0.012	151.50	1.82
0114	Beldar	Day	0.088	135.25	11.90
0115	Coolie	Day	0.044	135.25	5.95
0100	Bandhani	Day	0.088	138.45	12.18
	Fixing charges				
	Labour:				
0125	Stone mason (plan work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scafolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				142.03
	Add 1 % for water charges				1.42
	TOTAL				143.45
	Add 15% for contractor's profit and overheads				21.52
	Cost of 10 cudm.				164.97
	Cost of 1 cum.				16497.00
	Say				16497.00

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.

7.15.2 : White sand stone.

7.15.2.1: Single face punched.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm =	tonne	0.031	47.29	1.47
	13.33x2.30=30.659 kg= tonne say 0.031 t				
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.059	141.60	8.35

Code	Description	Unit	Quantity	Rate	Amount
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0 125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	Extra labour for lifting of materials upto floor Vlevel=0.01xl.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	TOTAL				124.42
	Add 1% for water charges				1.24
	TOTAL				125.66
	Add 15% for contractor's profit and overheads				18.85
	Cost of 10 cudm.				144.51
	Cost of 1 cum.				14451.00
	Say				14451.00

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.

7.15.2 : White sand stone.

7.15.2.2: Double faced punched.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	White sand stone				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = tonne kg say 0.031 t.	tonne	0.031	47.29	1.47
	Extra labour for lifting of material upto floor V level.				
	0.01 x 1.50 = 0.015				
0115	Coolie	Day	0.015	135.25	2.03
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.118	141.60	16.71
0102	Blacksmith 1st class	Day	0.012	151.50	1.82
0114	Beldar	Day	0.088	135.25	11.90
0115	Coolie	Day	0.044	135.25	5.95
0100	Bandhani	Day	0.088	138.45	12.18
	Fixing charges				
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0 102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	TOTAL				148.70
	Add 1 % for water charges				1.49
	TOTAL				150.19
	Add 15% for contractor's profit and overheads				22.53
	Cost of 10 cudm.				172.72
	Cost of 1 cum				17272.00
	Say				17272.00

7.16 : Extra for stone work, plain ashlar or ashlar punched above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm 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)				
0114	Beldar	Day	0.02	135.25	2.70
	TOTAL				2.70
	Add 1 % for water charges,				0.03
	TOTAL				2.73
	Add 15% for contractor's profit and overheads				0.41
	Cost of 10 cudm.				3.14
	Cost of 1 cum.				314.00
	Say				314.00

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.				
9999	Labour and materials	L.S.	8.97	1.00	8.97
	TOTAL				8.97
	Add 1% for water charges				0.09
	TOTAL				9.06
	Add 15% for contractor's profit and overheads				1.36
	Cost of 10 cudm.				10.42
	Cost of 1 cum.				1 042.00
	Say				1 042.00

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.				
9999	Labour and materials	L.S.	6.24	1.00	6.24
	TOTAL				6.24
	Add 1% for water charges				0.06

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				6.30
	Add 15% for contractor's profit and overheads				0.94
	Cost of 10 cudm.				7.24
	Cost of 1 cum.				724.00
	Say				724.00

7.19 Extra for additional cost of centring for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured),

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost per 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-'(4/3)=53.28° 2x53.28°=106° Surface area =2x22/7x5x3.6x106/360=33.3lsqm. Arc=9.25m Material: Tie-2x8x0. 18x0.05 =0.144cum Struts-2x2.5x0.1x0.1 =0.050cum. Struts-2x 1.77x0.1x0. l=0.035cum. Ribs-6x 1.54x0.23x0.1 =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-2x4x3.6xO. 175x0.075=0.378 Vertical post-4x4x3.6x0.15x0.15=1.296 Total =7.103cum. -				
1197	Qty taken l/8th of qty for cost using once = 7.103/8 = 0.8879 cum	10 cudm	887.90	160.00	14 206.40
2204	Carriage of wood Fittings: 3 way straps 50mmxl0mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmxl0mm = 8 Nos. @0.25cm each = 2m Total = 18m	cum	0.8879	60.81	53.99
1225	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.	quintal	0.0878	2 900.00	254.62
1034	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	0.08	4 300.00	344.00
2302	Carriage of steel = 0.1342t Qty taken l/8th of qty for cost using once = 0.1342/8 = 0.01677 t	tonne	0.0168	47.29	0.79
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter 2nd class	Day	28.00	141.60	3 964.80
0114	Beldar	Day	24.00	135.25	3 246.00
9999	Sundries	L.S.	134.55	1.00	134.55
	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span				
	(A) Rate as per item 5.9.9	sqm	33.31	514.70	(-)17 144.66
	TOTAL				5 060.49
	Add 1 % for water charges on all exept 'A'				222.05
	TOTAL				5 282.54
	Add for contractor's profit and overheads@ 15 *% on* all exept 'A'				3 364.08
	Cost of 33.31 sqm.				8 646.62
	Cost per sqm of soffit area				259.58
	Say				259.60

7.20 : Stone work 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.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1160	Cost of red sand stone	10 cudm	13.33	45.00	59.98
2216	Cement mortar : Carriage of stone @ 2.30kg/cudm= 13.33x2.30 = 30.659 kg = 0.031 t.	tonne	0.031	47.29	1.47
9999	Extra for using white cement	L.S.	8.06	1.00	8.06
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.291	141.60	41.21
0102	Blacksmith 1 st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50=0.015				
0115	Coolie	Day	0.015	135.25	2.03
	TOTAL				158.67

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				1.59
	TOTAL				160.26
	AddJWo for contractor's profit and overheads				24.04
	Cost of 10 cudm.				184.30
	Cost of 1 cum.				18430.00
	Say				18430.00

7.20 : Stone work 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

7.20.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
	Materials-				
	Red sand stone				
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
1161	Cost of stone	10 cudm	13.33	50.00	66.65
2216	Carriage of stone @ 2.30kg/cudm = 13.33x2.30=30.659kg=0.031t.	tonne	0.031	47.29	1.47
9999	Extra for using white cement	L.S.	8.06	1.00	8.06
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.291	141.60	41.210
0102	Blacksmith 1 st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.044	135.25	5.95
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.044	138.45	6.09
	Fixing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	0.044	141.60	6.23
0102	Blacksmith 1 st class	Day	0.006	151.50	0.91
0114	Beldar	Day	0.022	135.25	2.98
0115	Coolie	Day	0.022	135.25	2.98
0100	Bandhani	Day	0.022	138.45	3.05
0101	Bhishti	Day	0.022	138.45	3.05
9999	Scaffolding	L.S.	2.73	1.00	2.73
9999	Mortar for laying and pointing	L.S.	8.06	1.00	8.06
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50=0.015				
0115	Coolie	Day	0.015	135.25	2.03
	TOTAL				165.34
	Add 1% for water charges				1.65
	TOTAL.				166.99
	Add 15%"for contractor's profit and overheads				25.05
	Cost of 10 cudm.				192.04
	Cost of 1 cum.				19 204.00
	Say				19 204.00

7.21 : Extra for stone work sunk or moulded or sunk and mlded or carved in :
7.21.1 : Triangular or Square or rectangular pillars

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
9999	Labour	L.S.	11.70	1.00	11.70
	TOTAL				11.70
	Add 1 % for water charges				0.12
	TOTAL				11.82
	Add. 15% for contractor's profit and overheads				1.77
	Cost of 10 cudm.				13.59
	Cost of 1 cum.				1 359.00
	Say				1 359.00

7.21 : Extra for stone work sunk or moulded or sunk and moulded or carved in :
7.21.2 : Circular or polygonal pillars -

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cudm.				
9999	Labour	L.S.	33.15	1.00	33.15
	TOTAL				33.15
	Add 1% for water charges				0.33
	TOTAL				33.48
	Add 15% for contractor's profit and overheads				5.02
	Cost of 10 cudm.				38.50
	Cost of 1 cum.				3 850.00
	Say				3 850.00

7.22 : Extra for stone work sunk or moulded in cornices.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a cornice 30cm long 60cm deep and 15cm projection				
	Extra labour:				
0125	Stone mason (2nd class)	Day	0.50	141.60	70.80
0114	Beldar	Day	0.75	135.25	101.44
	TOTAL				172.24
	Add 1% for water charges				1.72
	TOTAL				173.96
	Add 15% for contractor's profit and overheads				26.09
	Cost of 30cm long 60cm deep and 15cm girth				200.05
	Cost of per metre per cm girth				8.89
	Say				8.90

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps 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. Materials- Finished work = 70 cudm. + Add wastage @ 33.3% = 23.33 cudm. Total = 93.33 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
1160	Cost of stone	10 cudm	93.33	45.00	419.98
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
oioo	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
2112	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No 3.8 of S.H. mortar)				
	TOTAL				1 077.70
	Add 1% for water charges				10.78
	TOTAL				1 088.48
	Add 15% for contractor's profit and overheads				163.27
	Cost of 1 sqm.				1251.75
	Say				1 251.75

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.1 : Red sand stone - exposed face fine dressed with rough backing.

7.23.1.2: 60 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 60 cudm.				
	Add wastage @ 33.3% = 20 cudm.				
	Total = 80 cudm.				
1160	Cost of stone	10 cudm	80.00	45.00	360.00
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.184	47.29	8.70
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0101	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
O100	Bandhani	Day	0.336	138.45	46.52

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
2112	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	TOTAL				1 016.25
	Add 1% for water charges				10.16
	TOTAL				1 026.41
	Add 15% for contractor's profit and overheads				153.96
	Cost of 1 sqm.				1 180.37
	Say				1 180.35

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.1 : Red sand stone - exposed face fine dressed with rough backing.

7.23.1.3: 50 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 50 cudm.				
	Add wastage @ 33.3% = 16.7 cudm.				
	Total = 66.7 cudm.				
1160	Cost of stone	10 cudm	66.70	45.00	300.15
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.153	47.29	7.24
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0101	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0101	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No 3.8 fo SH- mortar)				
	TOTAL				954.94
	Add 1 % for water charges				9.55
	TOTAL				964.49
	Add 15% for contractor's profit and overheads				144.67
	Cost of 1 sqm.				1 109.16
	Say				1 109.15

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.1 : Red sand stone - exposed face fine dressed with rough backing.

7.23.1.4: 40 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 40 cudm.				
	Add wastage @ 33.3% = 13.33 cudm.				
	Total = 53.33 cudm.				
1160	Cost of stone	10 cudm	53.33	45.00	239.98
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.123	47.29	5.82
9999	Extra for using white cement	L.S.	26.91	2.60	26.91
	Dressing charges				
	Labour:				
125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	2.60	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No 3.8 of SH - mortar)				
	TOTAL				893.35
	Add 1% for water charges				8.93
	TOTAL				902.28
	Add 15% for contractor's profit and overheads				135.34
	Cost of 1 sqm.				1 037.62
	Say				1 037.60

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.1 : Red sand stone - exposed face fine dressed with rough backing.

7.23.1.5: 30 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 30 cudm.				
	Add wastage @ 33.3% = 9.99cudm.				
	Total = 39.99 cudm.				
1160	Cost of stone	10 cudm	39.99	45.00	179.96

Code	Description	Unit	Quantity	Rate	Amount
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.092	47.29	4.35
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1 st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0101	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No 3.8 of SH. mortar)				
	TOTAL				831.86
	Add 1% for water charges				8.32
	TOTAL				840.18
	Add 15% for contractor's profit and overheads				126.03
	Cost of 1 sqm.				966.21
	Say				966.20

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

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.				
	Materials-				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm.				
	Total = 93.33 cudm.				
1160	Cost of stone	10 cudm	93.33	45.00	419.98
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0101	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mrtar)				
	TOTAL				1 350.17
	Add 1% for water charges				13.50
	TOTAL				1 363.67
	Add 15 % for contractor's profit and overheads				204.55
	Cost of 1 sqm.				1 568.22
	Say				1 568.20

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by_ means of cramps which shall be paid for separately):

7.23.2 : Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.2: 60 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 60 cudm.				
	Add wastage @ 33.3% = 20 cudm.				
	Total = 80 cudm.				
1160	Cost of stone	10 cudm	80	45.00	360.00
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.184	47.29	8.70
9999	Extra for using white cement	L.S.	10.35	2.60	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	135.25	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	9.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 288.72
	Add 1 % for water charges				12.89
	TOTAL				1 301.61
	Add 15% for contractor's profit and overheads				195.24
	Cost of 1 sqm.				1 496.85
	Say				1 496.85

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.2 : Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.3: 50 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 50 cudm. +				
	Add wastage @ 33.3% = 16.7 cudm.				
	Total = 66.7 cudm.				
1160	Cost of stone	10 cudm	66.7	45.00	300.15
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.153	47.29	7.24
9999	Extra for using white cement	L.S.	26.91	2.60	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0101	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 227.41
	Add 1% for water charges				12.27
	TOTAL				1 239.68
	Add 15% for contractor's profit and overheads				185.95
	Cost of 1 sqm.				1 425.63
	Say				1 425.65

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.2 : Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.4: 40 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 40 cudm. +				
	Add wastage @ 33.3% = 13.33 cudm.				
	Total = 53.33 cudm.				
1160	Cost of stone	10 cudm	53.33	45.00	239.98

Code	Description	Unit	Quantity	Rate	Amount
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.123	47.29	5.82
9999	Extra for using white cement	L.S.	26.41	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0101	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0101	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 165.82
	Add 1 % for water charges				11.66
	TOTAL				1 177.48
	Add 15% for contractor's profit and overheads				176.62
	Cost of 1 sqm.				1 354.10
	Say				1 354.10

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.2 : Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.5: 30 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 30 cudm. +				
	Add wastage @ 33.3% - 9.99cudm.				
	Total - 39.99 cudm.				
1160	Cost of stone	10 cudm	39.99	45.00	179.96
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.092	47.29	4.35
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.7	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0101	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0101	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 104.33
	Add 1 % for water charges				11.04
	TOTAL				I 115.37
	Add 15% for contractor's profit and overheads				167.31
	Cost of 1 sqm.				1 282.68
	Say				1 282.70

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

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.				
	Materials-				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm.				
	Total = 93.33 cudm.				
1161	Cost of stone	10 cudm	93.33	50.00	466.65
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 124.37
	Add 1% for water charges				11.24
	TOTAL				1 135.61
	Add 15% for contractor's profit and overheads				170.34
	Cost of 1 sqm.				1 305.95
	Say				1 305.95

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.3 : White sand stone - exposed face fine dressed with rough backing .

7.23.3.2: 60 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 60 cudm.				
	Add wastage @ 33.3% = 20 cudm.				
	Total = 80 cudm.				
1161	Cost of stone	10 cudm	80.0	50.00	400.00
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.184	47.29	8.70
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
C100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3 169.60	57.05
	(Rate as per item No. 3.8 of SH- mortar)				
	TOTAL				1 056.25
	Add 1 % for water charges				10.56
	TOTAL				1 066.81
	Add 15% for contractor's profit and overheads				160.02
	Cost of 1 sqm.				1 226.83
	Say				1 226.85

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.3 : White sand stone - exposed face fine dressed with rough backing .

7.23.3.3: 50 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 50 cudm.				
	Add wastage @ 33.3% = 1,6.7 cudm.				
	Total = 66.7 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
1161	Cost of stone	10 cudm	66.7	50.00	333.50
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.153	47.29	7.24
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	151.50	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH- mortar)	cum	0.018	3 169.60	57.05
	TOTAL				988.29
	Add 1 % for water charges				9.88
	TOTAL				998.17
	Add 15 % for contractor's profit and overheads				149.73
	Cost of 1 sqm.				1 147.90
	Say				1 147.90

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.3 : White sand stone - exposed face fine dressed with rough backing .

7.23.3.4: 40 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 40 cudm.				
	Add wastage @ 33.3% = 13.3 cudm.				
	Total = 53.3 cudm.				
1161	Cost of stone	10 cudm	53.3	50.00	266.50
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.123	47.29	5.82
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44

Code	Description	Unit	Quantity	Rate	Amount
0101	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH- mortar)	cum	0.018	3 169.60	57.05
	TOTAL				919.87
	Add 1% for water charges				9.20
	TOTAL				929.07
	Add 10% for contractor's profit and overheads				139.36
	Cost of 1 sqm.				1 068.43
	Say				1 068.45

7.23: Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.3 : White sand stone - exposed face fine dressed with rough backing .

7.23.3.5: 30 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 30 cudm. +				
	Add wastage @ 33.3% = 9.99 cudm.				
	Total = 39.99 cudm.				
1161	Cost of stone	10 cudm	39.99	50.00	199.95
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.092	47.29	4.35
9999	Extra for using white cement	L.S.	26.91	1.0	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	1.35	141.60	191.16
0102	Blacksmith 1st class	Day	0.032	151.50	4.85
0114	Beldar	Day	0.224	135.25	30.30
0115	Coolie	Day	0.112	135.25	15.15
0100	Bandhani	Day	0.224	138.45	31.01
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.0	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH.Mortar)	cum	0.018	3 169.60	57.05
	TOTAL				851.85
	Add 1% for water charges				8.52
	TOTAL				860.37
	Add 15% for contractor's profit and overheads				129.06
	Cost of 1 sqm.				989.43
	Say				989.45

7.23 : Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

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.				
	Materials-				
	Finished work = 70 cudm.				
	Add wastage @ 33.3% = 23,.33 cudm.				
	Total = 93.33 cudm.				
1161	Cost of stone	10 cudm	93.33	50.00	466.65
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	Extra for using white cement	L.S.	26.91	1.0	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.0	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH.Mortar)	cum	0.018	3 169.60	57.05
	TOTAL				1396.84
	Add 1% for water charges				13.97
	TOTAL				1410.81
	Add 15% for contractor's profit and overheads				211.62
	Cost of 1 sqm.				1622.43
	Say				1622.45

7.23 Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.2 60 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm. Materials- Finished work = 60 cudm. Add wastage @ 33.3% = 20 cudm. Total = 80 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
1161	Cost of stone	10 cudm	80	50.00	400.00
2216	Carriage of stone @ 2.30kg/cudm	tonne	0.184	47.29	8.70
9999	Extra for using white cement	L.S.	20.91	1.0	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.0	19.76
	(Rate as per item No. 3.8 of SH.Mortar)				
	Mortar for laying and pointing	cum	0.018	3169.60	57.05
	TOTAL				1 328.72
	Add 1 % for water charges				13.29
	TOTAL				1 342.01
	Add 15% for contractor's profit and overheads				201.30
	Cost of 1 sqm.				1 543.31
	Say				1 543.30

7.23 Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.3 50 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 50 cudm.				
	Add wastage @ 33.3% = 16.7 cudm.				
	Total = 66.7 cudm.				
1161	Cost of stone	10 cudm	66.7	50.00	333.50
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.153	47.29	7.24
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH.Mortar)	cum	0.018	3169.60	57.05
	TOTAL				1260.76
	Add 1% for water charges				12.61
	TOTAL				1 273.37
	Add 15% for contractor's profit and overheads				191.01
	Cost of 1 sqm.				1 464.38
	Say				1 464.40

7.23 Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.4 40 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
	Materials-				
	Finished work = 40 cudm.				
	Add wastage @ 33.3% = 1,3.3 cudm.				
	Total = 53.3 cudm.				
1161	Cost of stone	10 cudm	53.3	50.00	266.50
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.123	47.29	5.82
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	135.25	0.224	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing (Rate as per item No. 3.8 of SH.Mortar)	cum	0.018	3169.60	57.05
	TOTAL				1216.34
	Add 1% for water charges				12.16
	TOTAL				1228.50
	Add 15% for contractor's profit and overheads				184.28
	Cost of 1 sqm.				1412.78
	Say				1412.80

7.23 Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm 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 by means of cramps which shall be paid for separately):

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.5 30 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm. Materials- Finished work = 30 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
	Add wastage @ 33.3% = 9.99 cudm.				
	Total = 39.99 cudm.				
1161	Cost of stone	10 cudm	39.99	50.00	199.95
2216	Carriage of stone @ 2.30 kg/cudm.	tonne	0.092	47.29	4.35
9999	Extra for using white cement	L.S.	26.91	1.00	26.91
	Dressing charges				
	Labour:				
0125	Stone mason (plane work) 2nd class	Day	2.70	141.60	382.32
0102	Blacksmith 1st class	Day	0.064	151.50	9.70
0114	Beldar	Day	0.448	135.25	60.59
0115	Coolie	Day	0.224	135.25	30.30
0100	Bandhani	Day	0.448	138.45	62.03
	Fixing charges				
	Labour:				
0125	Stone mason (for plain work) 2nd class	Day	0.448	141.60	63.44
0100	Bandhani	Day	0.336	138.45	46.52
0114	Beldar	Day	0.336	135.25	45.44
0115	Coolie	Day	0.336	135.25	45.44
0101	Bhisti	Day	0.336	138.45	46.52
1237	Cutting sand stone slab thick by mechanical device	metre	4.00	6.00	24.00
9999	Scaffolding	L.S.	19.76	1.00	19.76
	Mortar for laying and pointing	cum	0.018	3169.60	57.05
	(Rate as per item No. 3.8 of SH.Mortar)				
	TOTAL				1 124.32
	Add 1% for water charges				11.24
	TOTAL				1 135.56
	Add 15% for contractor's profit and overheads				170.33
	Cost of 1 sqm.				1 305.89
	Say				1 305.90

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	1.00	8.97
	TOTAL				8.97
	Add 1% for water charges				0.09
	TOTAL				9.06
	Add l5% for contractor's profit and overheads				1.36
	Cost of 10 cudm.				10.42
	Cost of 1 cum.				1042.00
	Say				1042.00

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				
	Materials:				
	Stainless steel cramp				
	12.4x10-6 x7850 = 0.097kg				
	Add wastage @ 10% = 0.010kg.				
	= 0.107 kg.				

Code	Description	Unit	Quantity	Rate	Amount
7339	Stainless steel cramp	kilogram	0.107	280.00	29.96
9999	Carriage	L.S.	3.90	1.00	3.90
	CM. 1:2 (lcement :2 Coarse sand). (Rate as per this No. 3.7)	cum	0.001	3864.25	3.86
9999	Labour iorfixing m position	L.S.	6.50	1.00	6.50
	TOTAL				44.22
	Add 1% for water charges				0.44
	TOTAL				44.66
	Add 15% for contractor's profit and overheads				6.70
	Cost for 0.097 kg.				51.36
	Cost per kg				529.48
	Say				529.50

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	1.00	9.10
	Labour for dressing dowel cutting chase and fixing etc.				
9999	Labour for dressing dowel cutting chase and fixing etc.	L.S.	5.33	1.00	5.33
	CM. 1:2 (1cement: 2 coarse sand). (Rate as per items No. 3.7)	cum	0.0001	3864.25	3.86
	TOTAL				18.29
	Add 1% for water charges				0.18
	TOTAL				18.47
	Add 15% for contractor's profit and overheads				2.77
	Cost of each dowel				21.24
	Say				21.25

7.27 : Providing and fixing copper pins 7.5 cm long 6 mm 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- Materials-				
0873	Copper pins 6 mm dia 7.5 cm long	each	1.00	7.50	7.50
9999	Labour for making pin in to required shape and size, cutting chases in stone and fixing in position	L.S.	3.90	1.00	3.90
	CM. 1:2 (1 cement: 2 coarse, sand).	cum	0.001	3 864.25	3.86
9999	Sundries including hire charges of hand cut machine etc.	cum	0.001	1.00	1.95
	TOTAL				17.21
	Add 1 % for water charges				0.17
	TOTAL				17.38
	Add 15% for contractor's profit and overheads				2.61
	Cost of one copper pin				19.99
	Say				20.00

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 12mm diameter anchoring steel bar 45 cm long fixed in each stone and supported on and including with bricks cove of class designation 75 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 F.P.S Bricks

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a chajja 2.00 sqm. (finished work)				
	Materials-				
	Red sand stone slab 40mm (average thickness)-Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5xl.00=2.50sqm.				
1164	Cost of stone	sqm	2.75	120.00	330.00
2216	Carriage @ 2.3kg/cudm.	tonne	0.253	47.29	11.96
	Labour for dressing:				
0 125	Mason (2nd class)	Day	0.50	141.60	70.80
1002	Anchoring steel bars 12mm dia. 45cm long 5 nos. @ 0.80kg/m = 0.02q	quintal	0.02	3100.00	62.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	1.00	67.34
	Mortar for pointing 1:2(1 Cement: 2 Stone dust) (Rate as per items no. 3.12)	cum	0.009	3 959.25	35.63
9999	Pigment	L.S.	6.24	1.00	6.24
9999	Extra cost of white cement	L.S.	26.91	1.00	26.91
	Labour:				
0125	Stone mason (Plain) 2nd class	Day	1.00	141.60	141.60
0114	Beldar	Day	1.50	135.25	202.88
9999	Scaffolding and sundries etc.	L.S.	16.12	1.00	16.12
	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	1.00	104.00
	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.				
	(B) Rate as per Item no. 6.1.2 SH: Brick work.	cum	0.018	2121.75	38.19
	TOTAL				1 113.67
	Add for water charges @ 1% on all except (B)				10.75
	TOTAL				1 124.42
	Add for contractor's profit and overheads @ 15% on all except (B)				162.93
	Cost of 2 sqm.				1 287.35
	Cost of 1 sqm.				643.68
	Say				643.70

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 12mm diameter anchoring steel bar 45 cm long fixed in each stone and supported on and including with bricks cove of class designation 75 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:

7.28.2 : White sand stone:

7.28.2.1: With F.P.S. bricks

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a chajja 2.00 sqm. (finished work)				
	Materials-				
	White sand stone slab 40mm (average thickness)-Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm.				
1165	Cost of stone	sqm	2.75	140.00	385.00
2216	Carriage @ 2.3kg/cudm.	tonne	0.253	47.29	11.96
	Labour for dressing:				
0125	Mason (2nd class)	Day	0.50	141.60	70.80
1002	Anchoring steel bars 12mm dia. 45cm long 5 nos. @ 0.80kg/m = 0.02q	quintal	0.02	3100.00	62.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	25.90	1.00	67.34
	Mortar for pointing 1:2 (1 Cement: 2 Stone dust)	cum	0.009	3 959.25	35.63
9999	Pigment	L.S.	6.24	1.00	6.24
9999	Extra cost of white cement	L.S.	26.91	1.00	26.91
	Labour:				
0125	Stone mason (Plain) 2nd class	Day	1.00	141.60	141.60
0114	Beldar	Day	1.50	135.25	202.88
9999	Scaffolding and sundries etc.	L.S.	16.12	1.00	16.12
	Brick cover support 4 courses with bricks of class designation 75				
	4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm				
9999	Cost for Brick cover support .	L.S.	104.00	1.00	104.00
	Brick work in triangular gap above cover with bricks of class designation 5 in cement mortar 1:4-1 /2x2.5x0.2x0.07=0.018cum.				
	(B) Rate as per Item no. 6.1.2 SH: Brick work.	cum	0.018	2121.75	38.19
	TOTAL				1 168.67
	Add for water charges @ 1% on all except (B)				11.30
	TOTAL				1 179.97
	Addfor contractor's profit and overheads @ 1 15% on all except (B)				171.27
	Cost of 2 sqm.				1 351.24
	Cost of 1 sqm.				675.62
	Say				675.60

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 (2.5xO.75m) 1.875 sqm. Materials- Taking 2.5mx75cm projection + 15cm bearing = 2.5x0.9 = 2.25 sqm.				
1164	Cost of stone	sqm	2.25	120.00	270.00
2216	Carriage @ 2.3kg/cudm.	tonne	0.227	47.29	10.73
	Labour for dressing:				
0125	Mason (2nd class) for stone work	Day	0.45	141.60	63.72
9999	Mortar for pointing 1:2	L.S.	53.82	1.00	53.82
9999	Pigment	L.S.	6.24	1.00	6.24
9999	Extra cost of white cement	L.S.	26.91	1.00	26.91
	Labour:				
0125	Mason (2nd class)	Day	0.60	141.60	84.96
0114	Beldar	Day	0.80	135.25	108.20
9999	Scaffolding and sundries etc.	L.S.	13.52	1.00	13.52
	TOTAL				638.10
	Add for water charges @ 1%				6,38
	TOTAL				644.48
	Add for contractor's profit and overheads @ 15%				96.67
	Cost of 1.875 sqm.				741.15
	Cost of 1 sqm.				395.28
	Say				395.30

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.

7.29.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for (2.5xO.75m) 1.875 sqm. Materials- 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	140.00	315.00
2216	Carriage @ 2.3kg/cudm.	tonne	0.227	47.29	10.73
	Labour for dressing:				
0125	Mason (2nd class) for stone work	Day	0.45	141.60	63.72
9999	Mortar for pointing 1:2	L.S.	53.82	1.00	53.82
9999	Pigment	L.S.	6.24	1.00	6.24
9999	Extra cost of white cement	L.S.	26.91	1.00	26.91
	Labour:				
0125	Mason (2nd class)	Day	0.6	141.60	84.96
0114	Beldar	Day	0.8	135.25	108.20
9999	Scaffolding and sundries etc.	1.00	L.S.	13.52	13.52
	TOTAL				683.10
	Add for water charges @ 1 %				6.83
	TOTAL				689.93

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15%				103.49
	Cost of 1.875 sqm.				793.42
	Cost of 1 sqm.				423.16
	Say				423.15

7.30 : 30mm 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
	Detail of cost for window 1.6m length and 0.70m width = 1.12 sqm. Materials: Red stone slab (chisel dressed) 30mm average thickness 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.				
1166	Total = 2.00 sqm.	sqm	2.00	97.00	194.00
2216	carriage	tonne	0.14	47.29	6.62
9999	Cement mortar 1 :4	L.S.	13.52	1.00	13.52
	Labour for dressing and fixing				
0125	Stone mason (plainy2nd class	Day	0.86	141.60	121.78
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				403.54
	Add for water charges @ 1 %				4.04
	TOTAL				407.58
	Add for contractor's profit and overheads @ 15%				61.14
	Cost for 1.12 sqm.				468.72
	Cost of 1 sqm.				418.50
	Say				418.50

7.31 : Providing and fixing red sand stone brackets 55x22.5x45cm sunk and moulded including providing and fixing with 4 Nos. gun metal cramp 25x6mm 30 cm long and dowel bars 7.5 cm long 6 mm 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	Cost of stone	10 cudm	61.60	45.00	277.20
2216	Carriage @ 2.3kg/ cudm.	tonne	0.14	47.29	6.62
	Dressing charges				
	LABOUR				
0125	Stone mason (plain work) 2nd class	Day	1.7926	141.60	253.83
0102	Blacksmith 1st class	Day	0.037	151.50	5.61

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.271	135.25	36.65
0115	Coolie	Day	0.1355	135.25	18.33
0100	Bandhani	Day	0.271	138.45	37.52
0373	Cost of Gun metal cramps 25x6mm x30 cm long	each	4.00	53.00	212.00
	Fixing charges				
	Labour				
0125	stone mason (plain work) 2nd class	Day	0.2464	141.60	34.89
0102	Blacksmith 1st class	Day	0.0336	151.50	5.09
0114	Beldar	Day	0.1232	135.25	16.66
0115	Coolie	Day	0.1232	135.25	16.66
0101	Bandhani	Day	0.1232	138.45	17.06
0101	Bhisti	Day	0.1232	138.45	17.06
9999	Scaffolding	L.S.	15.29	1.00	15.29
9999	Mortar for laying and pointing	L.S.	45.14	1.00	45.14
	Extra labour for ornamental finish :				
0126	Stone mason (ornamental)	Day	0.95	151.50	143.92
	TOTAL				1 159.53
	Add 1 % for water charges				11.60
	TOTAL				1 171.13
	Add 15% for contractor' s profit and overheads				175.67
	Cost for 1 Bracket				1 346.80
	Say				1 346.80

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.				
	Materials:				
	Stone work plain ashlar cyclopean 3x3x0.75 - 6.75 cudm				
	Rate as per item no 7.12.1.1 of SH : Stone Work	1000 cudm	6.75	14154.00	95.54
9999	(A) Extra for using white cement	L.S.	5.33	1.00	5.33
	Extra labour for making the cornices				
0125	(A) Stone mason (2nd class)	Day	0.07	141.60	9.91
0114	(A) Beldar	Day	0.07	135.25	9.47
	TOTAL				120.25
	(B) Add for water charges @ 1 % on 'A'				0.25
	TOTAL				120.50
	Add for contractor's profit and overheads @ 15% on (A+B)				3.74
	Cost of 6.75 cudm.				124.24
	Cost per cum.				18 405.93
	Say				18 406.00

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.

7.32.2 : 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.				
	Materials:				
	Stone work plain ashlar cyclopean 3x3x0.75 = 6.75 cudm				
	Rate as per item no 7.12.1.2 of SH : Stone Work	1000cudm	6.75	14929.00	100.77
9999	(A) Extra for using white cement	L.S.	5.33	1.00	5.33
	Extra labour for making the cornices				
0125	(A) Stone mason (2nd class)	Day	0.07	141.60	9.91
0114	(A) Beldar	Day	0.07	135.25	9.47
	TOTAL				125.48
	Add for water charges @ 1 % on 'A'				0.25
	TOTAL				125.73
	Add for contractor's profit and overheads @ 15 % on (A+B)				3.74
	Cost of 6.75 cudm.				129.47
	Cost per cum.				19180.74
	Say				19181.00

7.33 : Providing and fixing stone jali 40mm 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 lsqm-				
	Materials:				
	Red sand stone slab 40mm=1.00 sqm				
	Add 10% wastage Total =0.10/1.10				
1164	Red sand stone slab 40mm	sqm	1.10	120.00	132.00
2216	Carriage of stone slab	tonne	0.101	47.29	4.78
	Labour:				
	For making, dressing and fixing				
0125	Mason (plain) 2nd class	Day	12.70	141.60	1 798.32
0114	Beldar	Day	8.45	135.25	1 142.86
9999	Mortar and Sundries	L.S.	80.73	1.00	80.73
	TOTAL				3 158.69
	Add 1% for water charges				31.59
	TOTAL				3 190.28
	Add 15% for contractor's profit and overheads				478.54
	Cost of 1 sqm.				3 668.82
	Say				3 668.80

7.33 : Providing and fixing stone jali 40mm 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.

7.33.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for lsqm-				
	Materials:				
	White sandstone slaJx40mm = 1.00 sqm				
	Add 10% wastage Total =0.10/1.10 sqm				
1165	White sand stone slab 40mm	sqm	1.100	140.00	154.00
2216	Carriage of stone slab	tonne	0.101	47.29	4.78
	Labour:				
	For making, dressing and fixing				
0125	Mason (plain) 2nd class	Day	12.70	141.60	1 798.32
0114	Beldar	Day	8.45	135.25	1 142.86
9999	Mortar and Sundries	L.S.	80.73	1.00	80.73
	TOTAL				3 180.69
	Add 1 % for water charges				31.81
	TOTAL				3 212.50
	Add 15% for contractor's profit and overheads				481.88
	Cost of 1 sqm.				3 694.38
	Say				3 694.40

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.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for depth of water 0.30m.				
	Quantity of concrete = 14 cum.				
0011	pumping hours = 3 hrs. on 0.375day.	Day	0.375	300.00	112.50
0114	Beldar for cleaning slush	Day	4.00	135.25	541.00
	TOTAL				653.50
	Add 1 % for water charges				6.54
	TOTAL				660.04
	Add for contractor's profit and overheads 15%				99.01
	Cost of 14cum. per 0.30m depth				759.05
	Cost of cum. per m depth				180.73
	Say				180.75

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 1st class	Day	0.02	151.50	3.03
0124	Mason 2nd class	Day	0.02	141.60	2.03
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	0.15	135.25	20.29
	TOTAL				59.96
	Add 1% for water charges				0.60
	TOTAL				60.56
	Add for contractor's profit and overheads 15%				9.08
	Cost for 1 cum.				69.64
	Say				69.65

7.36 : Wall lining butch work upto 10.00m 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 75x75mm and by providing layer of 75mm thick strips i/c 12mm 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-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for lsqm. Dholpur stone 40mm thick Wall face = l.OOsqm. Deduct for embed within 3x0.04x0.10=0.12 sqm = 0.88sqm. Add wastage 5% = 0.04sqm. Total = 0.92 sqm.				
1165	Cost of stone 75mm thick 3x0.04x1.0 = 0.12 sqm. Add wastage 5% = 0.01 sqm. Total =0.13 sqm.	sqm	0.92	140.00	128.80
1163	Cost of stone Carriage of stone 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	sqm	0.13	256.00	33.28
2216	Carriage of stone	tonne	0.108	47.29	5.11
1237	Cutting stips of stone and giving rough finish assuming 50mm thick strips 20x1.0 = 20 metre	metre	20.00	6.00	120.00
	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.				
	Cement Mortar (Rate as per items No. 3.8)	cum	0.0304	3 169.60	96.36
	Cutting chases and making good with mortar after insurting stone etc.				
	(A) Rate as per item no. 18.78 of S.H	metre	3.00	36.65	109.95
	Miscellaneous				
9999	White cement and pigment for pointing	L.S.	40.43	1.00	40.43
	Labour:				
0126	Mason 1 st class	Day	0.25	151.50	37.88
0125	Mason 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	0.50	135.25	67.62
0101	Bhisti	Day	0.03	138.45	4.15
9999	Sundries and scaffolding brushes etc.	L.S.	26.91	1.00	26.91
	TOTAL				705.89
	Add for water charges @ 1% on all except 'A'				5.96
	TOTAL				711.85
	Add for contractor's profit and overheads @ 15% on all except 'A'				90.28
	Cost of 1 sqm.				802.13
	Say				802.15

7.37 : Stone work (machine cut edges) for wall lining upto 10 m height etc. (Veneer work) backing filled with a grout of 12mm 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 by means of cramps 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.				
	Materials :				
	25mm thids. kota stoneslabs = 10 sqm.				
	Add 15% wistage = 1.50 sqm				
	Total 11.50 sqm				
1169	Kotastone slab 25mm thick.	Sqm.	11.50	150.00	1725.00
2216	Carriage	tonne	0.67	47.29	31.68
	Cement Mortar 1 : 3	cum	0.144	3169.60	456.42
	(Rate as per item 3.8 of S.H. mortar)				
9999	Cement mortar for pointing.	L.S.	40.43	1.00	40.43
	Labour:				
0125	Mason 2nd class	Day	6.50	141.60	920.40
0114	Beldar	Day	6.5	135.25	879.12
0115	Coolie	Day	4.33	135.25	581.57
0139	Beldar for rubbing and polishing (special rate)	Day	10.8	138.45	1495.26
9999	Sundries	L.S.	111.54	1.00	111.54
	TOTAL				6241.42
	Add 1% for water charges				62.41
	TOTAL				6303.83
	Add 15% for contractor's profit and overheads				945.57
	Cost for 10 sqm.				7249.40
	Cost of 1 sqm.				724.94
	Say				724.95

7.38 Stone tile work for wall lining upto 10 m height with special adhesive over 12mm 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 8mm 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 lOsqm.				
	Materials :				
	ton thickgranite stone tile =				
	10.OOsqm.+Add 2.5% westage = 0.25 sqm				
2750	Ttofal =210	sqm	10.25	555.00	5688.75
9999	Carriage of granite tiles	L.S.	40.04	2.60	40.04
	Cement mortar 1:3	cum	0.14	3169.60	443.74
	(Rate as per item 3.8 of S.H. mortar)				
0367	Cement slurry @ 3.3 kg/sqm.	tonne	0.033	4500.00	148.50
9999	Mortar for pointing in white cement	L.S.	25.74	10.00	25.74
	Labour for placing and fixing :				
0123	Mason 1st class	Day	7.70	151.50	1166.55
	Beldar	Day	7.70	135.25	1041.42
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.00	260.00
9999	Sundries	L.S.	171.60	1.00	171.60
	TOTAL				8986.34
	Add 1 % for water charges				89.86
	TOTAL				9076.20
	Add 15% for contractor's profit and overheads				1361.43
	Cost for 10 sqm.				10437.63
	Cost of 1 sqm.				1043.76
	Say				1043.75

7.38: Stone tile work for wall lining upto 10 m height with special adhesive over 12mm 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: 8mm thick (mirror polished and machine cut edge)

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.				
	Materials :				
	8mm thick Raj Nagar white stone tile =				
	10.00sqm.+Add 2.5% westage = 0.25 sqm				
7439	Total = 10.25sqm.	sqm	10.25	430.00	4 407.50
9999	Carriage of Raj Nagar white stone tiles	L.S.	40.04	1.00	40.04
	Cement mortar 1:3	cum	443.74	3169.60	
	(Rate as per item 3.8 of S.H. mortar)				
0367	Cement slurry @ 3.3 kg/sqm.	tonne	0.033	4500.00	148.50
9999	Mortar for pointing in white cement	L.S.	25.74	1.00	25.74
	Labour for placing and fixing :				
0123	Mason 1st class	Day	7.70	151.50	1 166.55
0114	Beldar	Day	7.70	135.25	1 041.42
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.00	260.00
9999	Sundries	L.S.	171.60	1.00	171.60

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				7 705.09
	Add 1 % for water charges				77.05
	TOTAL				7 782.14
	Add 15%for contractor's profit and overheads				1 167.32
	Cost for 10 sqm.				8 949.46
	Cost of 1 sqm.				894.95
	Say				894.95

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
	ANALYSIS SAME AS ITEM NO 13.114				
	Detail of cost for 10 sqm				
	MATERIALS				
9999	Scaffolding	L.S.	215.28	1.00	215.28
0011	Hire charges of pumpset of capacity 4000 it/per hour	Day	0.375	300.00	112.50
0123	Mason 1st class	Day	0.30	151.50	45.45
0114	Belder	Day	0.30	151.50	45.45
0101	Bhisti	Day	0.15	138.45	20.77
9999	Sundries	L.S.	28.60	1.00	28.60
	TOTAL				350.67
	Add 1 % for water charges				3.51
	TOTAL				354.18
	Add 15% for contractor's profit and overheads				53.13
	Cost of 10.00 sqm				4.7.31
	Cost of 1.00 sqm				40.73
	Say				40.75

7.40 Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto lmxlm, 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 3 sqm.				
	Materials-				
	Red sand stoge = 3 X1.00 sqm = 3.00 sqm				
	Add wastage 25% = 0.75 sqm total=3.75				
	Add 20% wastage infixing due to broken edge = 0.60 sqm				
	Total = 4.35 sqm				
8683	Red sand stone gang saw cut 30mm thick.	sqm	4.35	325.00	1413.75
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	10.00	6.00	60.00
0016	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	backing rod	L.S.	30.68	1. 00	30.68
9999	Fixing including weather sealant and removing	L.S.	153.40	1. 00	153.40
9999	Double scafolding	L.S.	204.75	1.00	204.75
0126	Mason (for ornamental stone work) 1 st class	Day	2.00	151.50	303.00

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar Labour for lifting stone	Day	4.00	135.25	541.00
0114	Beldar	Day	1.00	135.25	135.25
9999	Silicon gun/ pump etc. Labour for sealing	L.S.	204.75	1.00	204.75
0116	Fitter (grade 1)	Day	0.25	151.50	37.88
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	204.75	1.00	204.75
9999	Rubing and polishing vertical surface of stone cladding	L.S.	51.22	1.00	51.22
	TOTAL				3 418.22
	Add 1% for water charges				34.18
	TOTAL				3 452.40
	Add 15% for contractor's profit and overheads				517.86
	Cost of 3 sqm				3 970.26
	Cost of 1 sqm				1 323.42
	Say				1 323.40

7.40 Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto lmxlm, 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.)

7.40.2 White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3 sqm. Materials- 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 30mm thick.	sqm	4.35	360.00	1 566.00
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	10.00	6.00	60.00
	Carriage of stone @ 2.30kg/cudm	tonne	0.215	47.29	10.17
9999	backing rod	L.S.	30.68	1.00	30.68
9999	Fixing including weather sealant and removing	L.S.	153.40	1.00	153.40
9999	Double scafolding	L.S.	204.75	1.00	204.75
0126	Mason (for ornamental stone work) 1st class	Day	2.00	151.50	303.00
0114	Beldar Labour for lifting stone	Day	4.00	135.25	541.00
0114	Beldar	Day	1.00	135.25	135.25
9999	Silicon gun/ pump etc. Labour for sealing	L.S.	204.75	1.00	204.75
0116	Fitter (grade 1)	Day	0.25	151.50	37.88
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	204.75	1.00	204.75
9999	Rubing and polishing vertical surface of stone cladding	L.S	51.22	1.00	51.22
	TOTAL				3 570.47
	Add 1 % for water charges				35.70
	TOTAL				3 606.17
	Add 15% for contractor's profit and overheads				540.93
	Cost of 3 sqm				4 147.10
	Cost of 1 sqm				1 382.37
	Say				1 382.35

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 supported in 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 20mm nominal size) of size 300x230x300mm 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 9 sqm or 88.79 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	Kilogram	51.47	38.00	1955.86
	Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total= 12.00 Add 10% wastage = 1.20m Total= 13.20m @3.50kg/m=46.20kg or 0.462 q 23.50 kg/m=46.20kg.				
1007	Cost of angle iron	quintal	0.462	3100.00	1432.20
	Cement concrete 1:2:4 = 16x0.15x0.15x0.15=0.054 cum				
	(Rate as per item no 4.1.3 of SH : Concrete Work)	cum	0.054	3257.45	175.90 (A)
	Making holes in brick work=16nos. Labour				
0123	Mason 1st class	Day	0.26	151.50	39.39
0124	Mason 2nd class	Day	0.26	141.60	36.82
0114	Beldar	Day	2.00	135.25	270.50
	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	cum	560.00	1.00	560.00
	LABOUR				
0102	Blacksmith 1 st class	Day	1.34	151.50	203.01
0100	Bandhani	Day	0.67	138.45	92.76
0114	Beldar	Day	4.92	135.25	665.43

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	31.05	2.60	80.73
	Painting with epoxy paint over and including priming coat area 22.80x0.15 = 3.42 12x0.2=2.40 Total = 5.82sqm				
	(Rate as per Item no. 13.52.1 of SH: Finishing.)	sqm	5.82	75.25	437.96(A)
9999	For labour scaffocaling etc	L.S.	31.05	2.60	80.73
	Total				6257.65
	Add 1 % for water charges except on (A)				56.44
	Total				6314.09
	Add 15% for contractor's profit and overheads except on (A)				855.03
	Cost for 88.79 kg				7169.12
	Cost for 1 kg				80.74
	Say				80.75

7.42 Providing and fixing adjustable stainless steel cramps of approved quality and of 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.				
8698	Stainless steel cramps with nuts, bolts and washer for dry stone cladding . LABOUR for making holes, recesses etc. and fixing of stainless stul cramps	each	10	200.00	2000.00
0103	Blacksmith 2nd class	Day	0.10	141.60	14.16
0124	Mason 2nd class	Day	1.00	141.60	141.60
0114	Beldar	Day	1.10	135.25	148.78
9999	Scaffolding, hire charges of drill machine etc.	L.S.	20.80	1.00	20.80
9999	Sundries	L.S.	20.80	1.00	20.80
	Total				2346.14
	Add 1% for water charges.				23.46
	Total				2369.60
	Add 10% for contractor's profit and overheads charges.				355.44
	Cost for 10 Nos.				2725.04
	Cost for 1 Nos.				272.50
	Say				272.50

SUB HEAD : 8.0

MARBLE WORK

8.1 Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work) 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 (polished and machine cut) 18 mm thick upto 0.50sqm	sqm	0.60	540.00	324.00
2216	Carriage of marble	tonne	0.03	47.29	1.42
	Cement mortar 1:3 (1 Cement: 3 Coarse sand) Rate as per item No. 3.8	cum	0.008	3169.60	25.36
	White 1:2 (1 white cement: 2 marble dust)(Rate as per item No.3.15)	cum	0.0012	7590.25	9.11
	Labour:				
	For fixing				
0126	Stone Mason (ornamental)	Day	0.335	151.50	50.75
0100	Bandhani	Day	0.335	138.45	46.38
0114	Beldar	Day	0.335	135.25	45.31
0115	Coolie	Day	0.335	135.25	45.31
0 101	Bhishti	Day	0.335	138.45	46.38
0128	Mate	Day	0.165	138.45	22.84
0102	Blacksmith 1st class	Day	0.135	151.50	20.45
9999	Scaffolding	L.S.	13.39	1.00	13.39
	TOTAL				650.70
	Add 1 % for water charges				6.51
	TOTAL				657.21
	Add 15% for contractor's profit and overheads				98.58
	Cost for 0.50 sqm.				755.79
	Cost for one sqm.				1 511.58
	Say				1 511.60

8.1 Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work) 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.

8.1.1.2 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 (Polished and machine cut) 18 mm thick above 0.50 sqm	sqm	1.20	580.00	696.00
2216	Carriage of marble	tonne	0.06	47.29	2.84
2112	Cement mortar 1:3 (Cement: 3 Coarse sand) (Rate as per item No. 3.8)	cum	0.0144	3169.60	45.64

Code	Description	Unit	Quantity	Rate	Amount
	white'cement mortar 1:2 (1 white cement: 2 marble dust) (Rate as per item No. 3.13)	cum	0.0025	7590.25	18.98
	Labour:				
	For fixing				
0126	Stone Mason (ornamental)	Day	0.67	151.50	101.51
0100	Bandhani	Day	0.67	138.45	92.76
0114	Beldar	Day	0.67	135.25	90.62
0115	Coolie	Day	0.67	135.25	90.62
0101	Bhishti	Day	0.67	138.45	92.76
0 128	Mate	Day	0.33	138.45	45.69
0102	Blacksmith 1st class	Day	0.27	151.50	40.90
9999	Scaffolding	L.S.	26.91	1.00	26.91
	TOTAL				1345.23
	Add 1% for water charges				13.45
	TOTAL				1358.68
	Add 15% for contractor's profit and overheads				203.80
	Cost for 1.00 sqm				1562.48
	Say				1562.50

8.2 Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge 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. = 0.525 sqm				
7452	Raj nagar plain white marble (polished and machine cut) 18 rnm. thick upto 0.50 sqm	sqm	0.525	540.00	283.50
	Cement morter 1:4(1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.012	2578.45	30.94
	Labour:				
0123	Mason (brick layer) 1st class	Day	0.70	151.50	106.05
0114	Beldar	Day	0.325	135.25	43.96
0115	Coolie	Day	0.325	135.25	43.96
9999	Moulding and edge polishing	L.S.	39.00	1.00	39.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.00	16.25
	TOTAL				563.66
	Add 1% for water charges				5.64
	TOTAL				569.30
	Add 15% for contractor's profit and overheads				85.40
	Cost for 0.50 sqm.				654.70
	Cost for 1.00 sqm				1309.40
	Say				1309.40

8.2 Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.

8.2.1 Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.

8.2.1.2 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% 0.10 sqm.=1.05 sqm				
7453	Raj nagar plain white marble (polished machine cut)18 mm thick above 0.50 sqm	sqm	1.05	580.00	609.00
	Cement mortar 1:4(1 cement: 4 coarse sand).(Rate as per item No. 3.9)	cum	0.024	2578.45	61.88
	Labour:				
0123	Mason (brick layer) 1st class	Day	1.40	151.50	212.10
0114	Beldar	Day	0.65	135.25	87.91
0115	Coolie	Day	0.65	135.25	87.91
9999	Moulding and edge polishing	L.S.	78.00	1.00	78.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.50	1.00	32.50
	TOTAL				1169.30
	Add 1% for water charges				11.69
	TOTAL				1180.99
	Add 15% for contractor's profit and overheads				177.15
	Cost for.1.00 sqm.				1358.14
	Say				1358.15

8.2 Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.

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.= 0.525 sqm				
7295	Granite 18 mm thick slab, upto 0.50 sqm awise)	sqm	0.525	1500.00	787.50
	Cement mortar 1:4 (1 cement: 4 coarse sand). (Rate as per item No. 3.9)	cum	0.012	2578.45	30.94
	Labour:				
0123	Mason (brick layer) 1st class	Day	0.70	151.50	106.05
0114	Beldar	Day	0.325	135.25	43.96
0115	Coolie	Day	0.325	135.25	43.96
9999	Moulding and edge polishing	L.S.	39.00	1.00	39.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.00	16.25
	TOTAL				1067.66
	Add 1% for water charges				10.68
	TOTAL				1078.34
	Add 15% for contractor's profit and overheads				161.75
	Cost for 0.50 sqm.				1240.09
	Cost for 1.00 sqm				2480.18
	Say				2480.20

8.2 Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.

8.2.2 Granite of any colour and shade

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.= 2.10sqm				
7297	Granite 18 mm thick slab, above 0.50 sqm	sqm	2.10	1 615.00	3 391.50
	Cement montar 1:4 (1 cement : 4 coarse sand). (Rate as per item No. 3.9)	cum	0.027	2578.45	69.62
	Labour:				
0123	Mason (brick layer) 1st class	Day	2.80	151.50	424.20
0114	Beldar	Day	1.30	135.25	175.82
0115	Coolie	Day	1.30	135.25	175.82
9999	Moulding and edge polishing	L.S.	39.00	1.00	78.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.00	65.00
	TOTAL				4379.96
	Add 1 % for water charges				43.80
	TOTAL				4423.76
	Add 15% for contractor's profit and overheads				663.56
	Cost for 2.00 sqm.				5087.32
	Cost for 1.00 sqm				2543.66
	Say				2543.65

8.3 Extra for providing edge moulding to 18mm 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 10.00 m				
	Labour:				
0019	Hand Grinder for-mirror-polish	Day	1.50	100.00	150.00
0114	Beldar	Day	3.50	135.25	270.50
9999	Sundries Blades & Polished etc.	L.S.	78.00	1.00	78.00
	TOTAL				498.50
	Add 1 % for water charges				4.99
	TOTAL				503.49

Code	Description	Unit	Quantity	Rate	Amount
	Add 15% for contractor's profit and overheads				75.52
	Cost for 10 metre				579.01
	Cost per metre				57.90
	Say				57.90

8.3 Extra for providing edge moulding to 18mm 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.

8.3.2 Granite work.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 m				
	Labour:				
0019	Hand Grinder for mirror polish	Day	2.50	100.00	250.00
0114	Beldar	Day	3.50	135.25	117.00
9999	Sundries Blades & Polish etc.	L.S.	117.00	1.00	117.00
	TOTAL				840.38
	Add 1 % for water charges				8.40
	TOTAL				848.78
	Add 15% for contractor's profit and overheads				127.32
	Cost for 10 metre				976.10
	Cost per metre				97.61
	Say				97.60

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 1st class	Day	0.30	151.50	45.45
0115	Beldar	Day	0.30	135.25	40.57
9999	Scaffolding, expoxy etc.	L.S.	39.00	1.00	39.00
	Cement mortar 1:4 (1 Cement: 4 Coarse sand) (Rate as per item No. 3.9) 1.5x0.15x0.02 = 0.005 cum.	cum	0.005	2578.45	12.89
	TOTAL				137.91
	Add 1 % for water charges				1.38
	TOTAL				139.29
	Add 15% for contractor's profit and overheads				20.89
	Cost for 10 metre				160.18
	Cost per metre				106.79
	Say				106.80

8.5 Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for providing one opening of required size and shape.				
	Labour:				
0126	Mason (for ornamental stone work) 1st class	Day	0.4	151.50	60.60

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.4	135.25	54.10
	Sundries	L.S.	15.3	1.00	15.30
	TOTAL				130.00
	Add 1% for water charges				1.30
	TOTAL				131.30
	Add 15% for contractor's profit and overheads				19.70
	Cost per opening				151.00
	Say				151.00

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	Floor grinder machine (Granite)	Day	1.00	200.00	200.00
0114	Beldar	Day	2.50	135.25	338.12
0101	Bhishti	Day	1.50	138.45	207.68
9999	Sundries grease, mop grinding stones etc.	L.S.	65.00	1.00	65.00
	TOTAL				810.80
	Add 1% for water charges				8.11
	TOTAL				818.91
	Add 15% for contractor's profit and overheads				122.84
	Cost for 10 sqm.				941.75
	Cost per sqm.				94.18
	Say				94.20

8.7 Providing and fixing cramps of required size & shape in RCC/ CC 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 one cramp				
	Materials:				
	Gun Metal cramp				
	$0.064x0.025x0.006 = 9.6x10^{-6}$ +				
	$0.025x0.025x0.006 = 3.7x10^{-6}$ +				
	pin $2 \times 22/28 \times (0.006)2 + 0.02 = 0.5x10^{-6}$				
	$= 13.8x10^{-6}$				
	Less hole				
	$0.024x0.010x0.006 = (-)\ 1.4x\ 10^{-6}$				
	$= 12.4x10^{-6}$				
	$12.4x10^{-6} \times 8640 = 0.107kg+$				
	Add wastage @ 10% = 0.011 kg.				
	= 0.118 kg.				
7338	Gun metal cramp	Kg.	0.118	270.00	31.86
9999	Carriage	L.S.	3.90	1.00	3.90
	Cement montar 1:2 (1 cement: 2 coarse sand). (Rate as per item No. 3.7)	cum	0.001	3864.25	3.86
9999	Labour for fixing in position	L.S.	6.50	1.00	6.50
	TOTAL				46.12
	Add 1 % for water charges				0.46
	TOTAL				46.58
	Add 15% for contractor's profit and overheads				6.99
	Cost for 0.107 kg.				53.57
	Cost per kg				500.65
	Say				500.65

8.7 Providing and fixing cramps of required size & shape in RCC/ CC 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).

8.7.2 Stainless steel cramps.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one cramp				
	Materials:				
	Stainless steel cramp				
	$12.4x10^{-6}x7850$ = 0.097kg+				
	Add wastage @ 10% = 0.01 Okg.				
	= 0.107 kg.				
7339	Stainless steel cramp	Kg.	0.107	280.00	29.96
9999	Carriage	L.S.	3.90	1.00	3.90
	Cement montar 1:2 (1 cement: 2 coarse sand). (Rate as per item No. 3.7)	cum	0.001	3864.25	3.86
9999	Labour for fixing in position	L.S.	6.50	1.00	6.50
	TOTAL				44.22
	Add 1 % for water charges				0.44
	TOTAL				44.66
	Add 15% for contractor's profit and overheads				6.70
	Cost for 0.097 kg.				51.36
	Cost per kg				529.48
	Say				529.50

8.8 Providing and fixing expansion hold fasteners on C.C. /R.C.C. 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 30nos. W.E.H. fastener				
	Materials:				
7430	Wedge expansion hold fastener size 6mm, 36.5mm length	each	30.00	10.00	300.00
1034	Bolt 6mm dia. Length (36.5+10mm)	quintal	0.0045	4300.00	19.35
	Labour:				
0116	Fitter Grade-I	Day	0.25	151.50	37.88
0114	Beldar	Day	0.25	135.25	33.81
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	1.00	32.50
	TOTAL				423.54
	Add 1 % for water charges				4.24
	TOTAL.				427.78
	Add 15% for contractor's profit and overheads				64.17
	Cost for 30 nos.				491.95
	Cost for one no.				16.40
	Say				16.40

8.8 Providing and fixing expansion hold fasteners on C C/R.C.C. surface backing including drilling necessary holes and the cost of bolt etc complete.

8.8.1 Wedge expansion type

8.8.1.2 Fastener with threaded dia 10 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30nos. W.E.H. fastener				
	Materials:				
7431	Wedge expansion hold fastener size 10mm, 44.5mm length	each	30.00	12.00	360.00
1034	Bolt 10mm dia. Length (44.5+10mm)	quintal	0.006	4300.00	25.80
	Labour:				
0116	Fitter Grade-I	Day	0.25	151.50	37.88
0114	Beldar	Day	0.25	135.25	33.81
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	1.00	32.50
	TOTAL				489.99
	Add 1% for water charges				4.90
	TOTAL				494.89
	Add 15% for contractor's profit and overheads				74.23
	Cost for 30 nos.				569.12
	Cost for one no.				18.97
	Say				18.95

8.8 Providing and fixing expansion hold fasteners on C.C./ R.C.C. surface backing incluading drilling necessary holes and the cost of bolt etc complete.

8.8.1 Wedge expansion type

8.8.1.3 Fastener with threaded dia 12 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30nos. W.E.H. fastener				
	Materials:				
7432	Wedge expansion hold fastener size 12mm, 58.7mm length	each	30.00	23.00	690.00
1034	Bolt 12mm dia. Length (58.7+10mm) @ 0.05 kg./each	quintal	0.0075	4 300.00	32.25
	Labour:				
0116	Fitter Grade-I	Day	0.25	151.50	37.88
0114	Beldar	Day	0.25	135.25	33.81
9999	Hire and running charges for hand drill machine, Sundries, drilling bit scaffolding etc.	L.S.	32.50	1.00	32.50
	TOTAL				826.44
	Add 1% for water charges				8.26
	TOTAL				834.70
	Add 15% for contractor's profit and overheads				125.20
	Cost for 30 nos.				959.90
	Cost for one no.				32.00
	Say				32.00

8.9 Stone tile (polished) work for wall lining over 12mm 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				
	Total = 1.025 sqm.				
2751	8 mm thick marble tiles (polished)	sqm	1.025	294.00	301.35
9999	Carriage of tiles	L.S.	3.95	1.00	3.95
	Cement mortar 1:3 (1 Cement: 3 Coarse sand) (Rate as per item no. 3.8)	cum	0.014	3169.60	44.37
9999	Mortar for pointing	L.S.	25.38	1.00	25.38
0 367	Cement for slurry	tonne	0.0033	4500.00	14.85
0123	Mason 1 st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries etc.	L.S.	16.90	1.00	16.90
	TOTAL				693.55
	Add 1 % for water charges				6.94
	TOTAL				700.49
	Add 15% for contractor's profit and overheads				105.07
	Cost for 1 sqm.				805.56
	Say				805.55

8.9 Stone tile (polished) work for wall lining over 12mm 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 8mm thick.

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 and of all shades)	sqm	1.025	555.00	568.88
9999	Carriage of tiles	L.S.	3.95	1.00	3.95
	Cement mortar 1:3 (1 Cement: 3 Coarse sand) (Rate as per item No. 3.8)	cum	0.014	3169.60	44.37
9999	Mortarr for pointing	L.S.	25.38	1.00	25.38
0367	Cement for slurry	tonne	0.0033	4500.00	14.85
Mason	1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
9999	Sundries etc.	L.S.	16.90	1.00	16.90
	TOTAL				961.08
	Add 1 % for water charges				9.61
	TOTAL				970.69
	Add 15% for contractor's profit and overheads				145.60
	Cost for 1 sqm.				1116.29
	Say				1116.30

8.10 Providing and fixing 18 mm thick stone slab 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. Materials :- Agaria Marble Stone 1 x 0.75 x0.50 = 0.375 + Add wastage @ 20% = 0.075 sqm. Total = 0.45sqm.				
7244	Agaria Marble Stone	sqm	0.45	1440.00	648.00
9999	Cement concrete 1:2:4 for filling	L.S.	21.58	1.00	21.58
9999	Labour for fixing, edge rounding and final polishing.	L.S.	43.16	1.00	43.16
9999	Sundries	L.S.	21.58	1.00	21.58
	TOTAL				734.32
	Add 1 % for water charges				7.34
	TOTAL				741.66
	Add 15% for contractor's profit and overheads				111.25
	Cost of 0.375sqm				852.91
	Cost of 1.00 sqm				2 274.43
	Say				2 274.45

8.10 Providing and fixing 18 mm thick stone slab 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.

8.10.2 Granite Stone of approved shade.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one No or 0.375 sqm. Materials :- Granite Stone 1x0.75x0.50 = 0.375sqm.+ Add wastage @ 20% = 0.075 sqm Total = 0.45 sqm.				
7245	Granite Stone	sqm	0.45	1670.00	751.50
9999	Cement concrete 1:2:4 for fixing	L.S.	21.58	1.00	21.58
9999	Labour for fixing, edge rounding and final polishing.	L.S.	43.16	1.00	43.16
9999	Sundries	L.S.	21.58	1.00	21.58
	TOTAL				837.82
	Add 1% for water charges				8.38
	TOTAL				846.20
	Add 15% for contractor's profit and overheads				126.93
	Cost of 0.375 sqm				973.13
	Cost of 1.00 sqm				2595.01
	Say				2595.00

SUB HEAD : 9.0

WOOD WORK
&
PVC WORK

9.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :

9.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for Chowkhat of a door 206.75x117.5cm				
	Materials				
	Superior class teakwood such as Dandeli Balarshah or Malabar				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum.				
1,189	Second class teakwood	10 cudm	38.00	394.00	1 497.20
2,204	Carriage of material (timber)	cum	0.038	60.81	2.31
	Labour:				
0156	Carpenter (avg.)	Day	0.72	146.55	105.52
0114	Beldar	Day	0.07	135.25	9.47
	TOTAL				1 614.50
	Add 1 % for water charges				16.14
	TOTAL				1 630.64
	Add 15% for contractor's profit and overheads				244.60
	Cost of 36 cudm.				1 875.24
	Cost per cum.				52090.00
	Say				52090.00

9.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :

9.1.2 Sal wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for Chowkhat of a door 206.75x117.5cm				
	Materials				
	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.				
	Salwood				
1,199	Carriage of material (timber)	10 cudm	38.00	218.00	828.40
2,204	Labour:	cum	0.038	60.81	2.31
	Carpenter (avg.)				
0156	Beldar	Day	0.72	146.55	105.52
0114	TOTAL	Day	0.07	135.25	9.47
	Add 1 % for water charges				945.70
	TOTAL				9.46
	Add 15% for contractor's profit and overheads				955.16
	Cost of 36 cudm.				143.27
	Cost per cum.				1 098.43
	Say				30 511.94
					30511.95

9.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :

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				
	Materials				
	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.				
2,466	Hollock wood	10 cudm	38.00	217.00	824.60
2,204	Carriage of timber	cum	0.038	60.81	2.31
2,504	Kiln seasoning of timber	cum	0.038	539.00	20.48
9,999	Chemical treatment	L.S.	8.97	1.00	8.97
	Labour:				
0156	Carpenter (average)	Day	0.72	146.55	105.52
0114	Beldar	Day	0.07	135.25	9.47
	TOTAL				971.35
	Add 1 % for water charges				9.71
	TOTAL				981.06
	Add 15% for contractor's profit and overheads				147.16
	Cost of 36 cudm. (finished work)				1128.22
	Cost per cum.				31339.44
	Say				31339.45

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 fixed in position as per directions of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for Chowkhat of a door 206.75x117.5cm				
	Materials				
	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.				
7,157	Laminated veneer lumber	10 cudm	38.00	540.00	2052.00
2,204	Carriage of timber	cum	0.038	60.81	2.31
	Labour:				
0111	Carpenter Ist Class	Day	0.20	151.50	30.30
0112	Carpenter IInd Class	Day	0.20	141.60	28.32
0114	Beldar	Day	0.20	135.25	27.05
	TOTAL				2139.98
	Add 1 % for water charges				21.40
	TOTAL				2161.38
	Add 15% for contractor's profit and overheads				324.21
	Cost of 36 cudm				2485.59
	Cost per cum				69044.17
	Say				69044.20

9.1 Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position :

9.3.1 Sal wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ceiling for a room 3x3m Materials: 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.				
1,199	Salwood	10 cudm	166.00	218.00	3618.80
2,204	Carriage of timber	cum	0.166	60.81	10.09
	Labour:				
0112	Carpenter IInd Class	Day	1.00	141.60	141.60
0114	Beldar	Day	1.00	135.25	135.25
9,999	Sundries screws etc.	L.S.	53.82	1.00	53.82
	TOTAL				3959.56
	Add 1 % for water charges				39.60
	TOTAL				3999.16
	Add 15% for contractor's profit and overheads				599.87
	Cost of 158 cudm.				4599.03
	Cost per cum.				29107.78
	Say				29107.80

9.3 Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position :

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 Materials: 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.				
2,466	Hollock wood	10 cudm	166.00	217.00	3602.20
2,204	Carriage of timber	cum	0.166	60.81	10.09
2,504	Kiln seasoning of timber	cum	0.166	539.00	89.47
9,999	Chemical treatment	L.S	18.20	1.00	18.20
	Labour:				
0112	Carpenter IInd Class	Day	1.00	141.60	141.60
0114	Beldar	Day	1.00	135.25	135.25
9,999	Sundries screws etc.	L.S.	53.82	1.00	53.82
	TOTAL				4050.63
	Add 1 % for water charges				40.51
	TOTAL				4091.14
	Add 15% for contractor's profit and overheads				613.67
	Cost of 158 cudm.				4704.81
	Cost per cum.				29777.28
	Say				29777.30

9.4 Extra for additional labour 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				
	Materials :				
1,189	Second class teakwood	10 cudm	3.80	394.00	149.72
2,204	Carriage of material (timber)	cum	0.0038	60.81	0.23
	Labour:				
0156	Carpenter (avg.)	Day	0.072	146.55	10.55
0114	Beldar	Day	0.007	135.25	0.95
	TOTAL				161.45
	Add 1% for water charges				1.61
	TOTAL				163.06
	Add 15% for contractor's profit and overheads				24.46
	Cost of 36 cudm.				187.52
	Cost per cum.				5208.89
	Say				5208.90

9.4 Extra for additional labour for circular works, such as in frames of fan light:
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				
	Materials :				
1,199	Sal wood in scantling	10 cudm	3.80	218.00	82.84
2,204	Carriage of material (timber)	cum	0.0038	60.81	0.23
	Labour:				
0156	Carpenter (avg.)	Day	0.072	146.55	10.55
0114	Beldar	Day	0.007	135.25	0.95
	TOTAL				94.57
	Add 1% for water charges				0.95
	TOTAL				95.52
	Add 15% for contractor's profit and overheads				14.33
	Cost of 36 cudm.				109.85
	Cost per cum.				3051.39
	Say				3051.40

9.4 Extra for additional labour for circular works, such as in frames of fan light:
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				
	Materials :				
2,466	Hollock wood	10 cudm	3.80	217.00	82.46
2,204	Carriage of timber	cum	0.0038	60.81	0.23

Code	Description	Unit	Quantity	Rate	Amount
2,504	Kiln seasoning of timber	cum	0.0038	539.00	2.05
9,999	Chemical treatment	L.S	0.90	1.00	0.90
	Labour:				
0156	Carpentr I class	Day	0.072	146.55	10.55
0114	Beldar	Day	0.007	135.25	0.95
	TOTAL				97.14
	Add 1% for water charges				0.97
	TOTAL				98.11
	Add 15% for contractor's profit and overheads				14.72
	Cost of 36 cudm. (finished work)				112.83
	Cost per cum.				3134.17
	Say				3134.15

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.

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) Materials: 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+ Beading 2x186. 1x1. 9x1.2cm = 0.001cum. Total = 0.047 cum+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum.				
1,190	Teak wood	10 cudm	51.00	410.00	2091.00
2,204	Carriage of timber	cum	0.051	60.81	3.10
0595	Black enemelled M.S. Butt hinges-100x5 8x1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enemelled M.S. Butt hinges-50x37xl.5mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter (average)	Day	1.83	146.55	268.19
0114	Beldar	Day	0.76	135.25	102.79
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				2554.56
	Add 1% for water charges				25.55
	TOTAL				2580.11
	Add 15% for contractor's profit and overheads				387.02
	Cost of 2.16 sqm.				2967.13
	Cost of 1 sqm.				1373.67
	Say				1373.65

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately.

9.5.1 Second class teak wood

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 Materials: 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.				
1,190	Teak wood	10 cudm	44.00	410.00	1804.00
2,204	Carriage of timber	cum	0.044	60.81	2.68
0595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.00	54.00	32.40
0597	Bright finished or black enamelled mild steel butthinges5Ox37xl.5O mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter (avg)	Day	1.83	146.55	268.19
0114	Beldar	Day	0.76	135.25	102.79
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				2267.14
	Add 1% for water charges				22.67
	TOTAL				2289.81
	Add 15% for contractor's profit and overheads				343.47
	Cost of 2.16 sqm.				2633.28
	Cost of 1 sqm.				1219.11
	Say				1219.10

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.

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 Materials: Hollock wood				

Code	Description	Unit	Quantity	Rate	Amount
	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+ Beading2xl86.1xl.9xl.2cm = 0.001cum. Total = 0.047 cum+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum.				
2,505	Hollock wood	10 cudm	51.00	230.00	1173.00
2,204	Carriage of timber	cum	0.051	60.81	3.10
2,504	Kiln seasoning	cum	0.051	539.00	27.49
9,999	Chemical treatment	L.S	9.10	1.00	9.10
0595	Black enamelled M.S. Butt hinges-100x58xl.9mm	10 Nos.	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37xl .5mm	10 Nos.	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0114	Beldar	Day	0.76	135.25	102.79
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				1673.15
	Add 1% for water charges				16.73
	TOTAL				1689.88
	Add 15% for contractor's profit and overheads				253.48
	Cost of 2.16 sqm.				1943.36
	Cost of 1 sqm.				899.70
	Say				899.70

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.

9.5.2 Kiln seasoned and chemically treated Hollock wood.

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. Materials: 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+ Beading2xl86.1xl.9xl.2cm = 0.001cum Total = 0.040 cum.+				

Code	Description	Unit	Quantity	Rate	Amount
	Add for wastage @ 10% = 0.004cum				
	Grand Total = 0.044 cum or = 44 cudm				
2,505	Hollock wood	10 cudm	44.00	230.00	1012.00
2,204	Carriage of timber	cum	0.044	60.81	2.68
2,504	Kiln seasoning	cum	0.044	539.00	23.72
9,999	Chemical treatment	L.S	9.10	1.00	9.10
0595	Black enemelled M.S. Butt hinges-100x58xl.9mm	10 Nos.	6.00	54.00	32.40
0597	Black enemelled M.S. Butt hinges-50x37xl .5mm	10 Nos.	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0114	Beldar	Day	0.76	135.25	102.79
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				1507.96
	Add 1% for water charges				15.08
	TOTAL				1523.04
	Add 15% for contractor's profit and overheads				228.46
	Cost of 2.16 sqm.				1751.50
	Cost of 1 sqm.				810.88
	Say				810.90

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 black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

9.6.1 12mm 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 of one shutter 220xl08cm = 2.38sqm.				
	Materials:				
	Factory made shutters LVL syles, rails and panels				
7,137	Plain particle board	sqm	2.38	1500.00	3570.00
9,999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings:				
0595	Black enamelled M.S. Butt hinges-100x58x 1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37xl.5	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter Average	Day	0.52	146.55	76.21
0114	Beldar	Day	0.60	135.25	81.15
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				3846.48
	Add 1% for water charges				38.46
	TOTAL				3884.94
	Add 15% for contractor's profit and overheads				582.74
	Cost of 2.38 sqm.				4467.68
	Cost of 1 sqm.				1877.18
	Say				1877.20

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 black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

9.6.2 12 mm thick prelaminated (with 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 - 1, conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and prelamination conforming to IS : 12823 Grade 1, Type - II marked:

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 220xl08cm = 2.38sqm.				
	Materials:				
	Factory made shutters LVL styles, rails and panels				
7,137	Plain particle board	sqm	2.38	1618.00	3850.84
9,999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings:				
0595	Black enamelled M.S. Butt hinges-100x58x 1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37xl.5	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter Average	Day	0.52	146.55	76.21
0114	Beldar	Day	0.60	135.25	81.15
9,999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				4127.32
	Add 1% for water charges				41.27
	TOTAL				4168.59
	Add 15% for contractor's profit and overheads				625.29
	Cost of 2.38 sqm.				4793.88
	Cost of 1 sqm.				2014.24
	Say				2014.25

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 black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

9.6.3 12 mm thick one side prelaminated (with particle board decorative lamination on other sides) and 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 prelamination conforming to IS : 12823 Grade -1, Type II marked:

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 220xl08cm = 2.38sqm.				
	Materials:				
	Factory made shutters LVL syles, rails and panels				

Code	Description	Unit	Quantity	Rate	Amount
7137	Plain particle board	sqm	2.38	1572.00	3 741.36
9999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings:				
0595	Black enamelled M.S. Butt hinges-100x58x 1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37xl.5	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100	48.00	30.00	14.40
0640	M.S. Screws 20mm	Nos	8.00	15.00	1.20
	Labour:	100			
0156	Carpenter Average	Nos	0.52	146.55	76.21
0114	Beldar		0.60	135.25	81.15
9999	Sundries	Day	35.88	1.00	35.88
	TOTAL	Day			4 017.84
	Add 1% for water charges	L.S.			40.18
	TOTAL				4 058.02
	Add 15% for contractor's profit and overheads				608.70
	Cost of 2.38 sqm.				4 666.72
	Cost of 1 sqm.				1 960.81
	Say				1 960.80

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 = 0.067 sqm				
	Materials:				
	Panels				
	4x47.2x38.65xl.6cm = 0.0117cum+				
	Add for wastage @ 10% = 0.0012cum.				
	= 0.0129 cum.				
1190	Second class teak wood	10 cudm	12.90	410.00	528.90
2204	Carriage of timber	cum	0.0129	60.81	0.78
	Labour:				
0111	Carpenter 1st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				620.45
	Add 1 % for water charges				6.20
	TOTAL				626.65
	Add 15% for contractor's profit and overheads				94.00
	Cost of 0.67 sqm.				720.65
	Cost of 1 sqm.				1075.60
	Say				1075.60

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 :

9.7.2 kiln seasoned and chemically treated Hollock wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutters of a door 200x108cm = 2.16 sqm. Panel area 4x45.1x36.55cm=0.66sqm. Materials: Hollock wood panels 4x45.1x36.55cm = 0.0117 cum+ Add for wastage @ 10% = 0.0012cum. = 0.0129 cum.				
2505	Hollock wood	10 cudm	12.90	230.00	296.70
2204	Carriage of timber	cum	0.0129	60.81	0.78
2504	Kiln seasoning	cum	0.0129	539.00	6.95
9999	Chemical treatment	L.S	8.97	1.00	8.97
	Labour & sundries				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				404.17
	Add 1 % for water charges				4.04
	TOTAL				408.21
	Add 15% for contractor's profit and overheads				61.23
	Cost of 0.66 sqm.				469.44
	Cost of 1 sqm.				711.27
	Say				711.25

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 :

9.7.3 Ply wood 5 ply, 9 mm thick :

9.7.3.1 Decorative plywood both side decorative veneer (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 = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: 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 8 mm thick	sqm	0.80	693.00	554.40
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				646.99
	Add 1 % for water charges				6.47
	TOTAL				653.46
	Add 15% for contractor's profit and overheads				98.02
	Cost of 0.67 sqm.				751.48
	Cost of 1 sqm.				1121.61
	Say				1121.60

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 :

9.7.3 Ply wood 5 ply, 9 mm thick :

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 2/3rd panelling.. .200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: 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 both faces 9 mm thick	sqm	0.80	550.00	440.00
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				532.59
	Add 1 % for water charges				5.33
	TOTAL				537.92
	Add 15% for contractor's profit and overheads				80.69
	Cost of 0.67 sqm.				618.61
	Cost of 1 sqm.				923.30
	Say				923.30

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 :

9.7.4 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 2/3rd panelling.. .200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: 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 both faces 9 mm thick	sqm	0.80	550.00	468.00
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				560.59
	Add 1 % for water charges				5.61
	TOTAL				566.20
	Add 15% for contractor's profit and overheads				84.93
	Cost of 0.67 sqm.				651.13
	Cost of 1 sqm.				971.84
	Say				971.85

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 :

9.7.5 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 2/3rd panelling...200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: Plywood 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
0341	Particle board 12mm thick	sqm	0.80	258.00	206.40
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				298.99
	Add 1 % for water charges				2.99
	TOTAL				301.98
	Add 15% for contractor's profit and overheads				45.30
	Cost of 0.67 sqm.				347.28
	Cost of 1 sqm.				518.33
	Say				518.35

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 :

9.7.5 Particle Board 12 mm thick

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 2/3rd panelling.. .200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: Particle board 4x47.2x38.65cm = 0.73sqm+				

Code	Description	Unit	Quantity	Rate	Amount
	Add for wastage @ 10% = 0.07sqm.				
7468	Total = 0.80 sqm.	sqm	0.80	418.00	334.40
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				426.99
	Add 1 % for water charges				4.27
	TOTAL				431.26
	Add 15% for contractor's profit and overheads				64.69
	Cost of 0.67 sqm.				495.95
	Cost of 1 sqm.				740.22
	Say				740.20

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 :

9.7.5 Particle Board 12 mm thick

9.7.5.3 Prelaminated 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 2/3rd panelling.. .200x108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.67sqm.				
	Materials:				
	Particle board 4x47.2x38.65cm = 0.73sqm+				
7477	Add for wastage @ 10% = 0.07sqm.				
9999	Total = 0.80 sqm.	sqm	0.80	595.00	476.00
	Carriage of Plywood	L.S	1.82	1.00	1.82
0111	Labour:				
9999	Carpenter 1st class	Day	0.57	151.50	86.35
	Sundries	L.S	4.42	1.00	4.42
	TOTAL				568.59
	Add 1 % for water charges				5.69
	TOTAL				574.28
	Add 15% for contractor's profit and overheads				86.14
	Cost of 0.67 sqm.				660.42
	Cost of 1 sqm.				985.70
	Say				985.70

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 :

9.7.5 Particle Board 12 mm thick

9.7.5.4 Prelaminated 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 2/3rd panelling.. .200x108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.67sqm.				
	Materials:				

Code	Description	Unit	Quantity	Rate	Amount
	Particale board 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm.				
7480	Total = 0.80 sqm.	sqm	0.80	625.00	500.00
9999	Carriage of Plywood	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				592.59
	Add 1 % for water charges				5.93
	TOTAL				598.52
	Add 15% for contractor's profit and overheads				89.78
	Cost of 0.67 sqm.				688.30
	Cost of 1 sqm.				1 027.31
	Say				1 027.30

9.8 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. Coir veneer board (conforming to IS : 14842-2000):

9.8.1 12 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutters of a door with 2/3rd panelling...200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm. Materials: Coir veneered board 12 mm thick 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
7555	Coir veneered board 12mm thick	sqm	0.80	548.00	438.40
9999	Carriage	L.S	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S	4.42	1.00	4.42
	TOTAL				530.99
	Add 1 % for water charges				5.31
	TOTAL				536.30
	Add 15% for contractor's profit and overheads				80.44
	Cost of 0.67 sqm.				616.74
	Cost of 1 sqm.				920.51
	Say				920.50

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges 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) 200xl08cm = 2.16 sqm. Materials : (i) Teak wood (2nd class)				

Code	Description	Unit	Quantity	Rate	Amount
	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.				
1190	Teak wood (2nd Class)	10 cudm	58.00	410.00	2378.00
2406	(ii) Float glasses 4.0mm thick	sqm	1.27	248.00	314.96
0595	(iii) Black enamelled M.S. butt hinges-100x58x1.90mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. butt hinges-50x37xl .50mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
2204	Carriage of Timber	cum	0.058	60.81	3.53
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				3195.42
	Add 1 % for water charges				31.95
	TOTAL				3227.37
	Add 15% for contractor's profit and overheads				484.11
	Cost of 2.16 sqm.				3711.48
	Cost of 1 sqm.				1718.28
	Say				1718.30

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.

9.9.1 Second class teak wood

9.9.1.1 30 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutter of a door (glazed) 200x108cm = 2.16 sqm. Materials : (i) 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.+				

Code	Description	Unit	Quantity	Rate	Amount
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.050 cum.				
1190	Teak wood	10 cudm	50.00	410.00	2 050.00
2406	(ii) Float glasses 4.0mm thick	sqm	1.27	248.00	314.96
0595	(iii) Black enamelled M.S. butt hinges-100x58x1.90mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. butt hinges-50x3 7x 1.50mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
2204	(iv) Carriage of timber	cum	0.05	60.81	3.04
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				2 866.93
	Add 1 % for water charges				28.67
	TOTAL				2 895.60
	Add 15% for contractor's profit and overheads				434.34
	Cost of 2.16 sqm.				3 329.94
	Cost of 1 sqm.				1 541.64
	Say				1 541.65

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked M.S butt hinges with necessary screws.

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.				
	Materials :				
	(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				
	Hollock wood				
2505	(ii) Kiln seasoning	10 cudm	58.00	230.00	1334.00
2504	(iii) Chemical treatment	cum	0.058	539.00	31.26
9999	(iv) Float glassess 4.0 mm thick	L.S	9.10	1.00	9.10
2406	(v) Black enamelled M.S. Butt	sqm	1.27	248.00	314.96
0595	hinges-100x58x1.90mm	10 Nos	6.00	54.00	32.40
	Black enamelled M.S. butt				
0597	hinges 50x37x 1.50mm	10 Nos	2.00	28.00	5.60
0640	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40

Code	Description	Unit	Quantity	Rate	Amount
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
2204	(iv) Carriage of timber	cum	0.058	60.81	3.53
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				2191.78
	Add 1 % for water charges				21.92
	TOTAL				213.70
	Add 15% for contractor's profit and overheads				332.06
	Cost of 2.16 sqm.				2545.76
	Cost of 1 sqm.				1178.59
	Say				1178.60

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked M.S butt hinges with necessary screws.

9.9.2 Kiln seasoned and chemically treated Hollock wood

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. Materials : (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				
2505	Hollock wood	10 cudm	50.00	230.00	1 150.00
2504	(ii) Kiln seasoning	cum	0.058	539.00	26.95
9999	(iii) Chemical treatment	L.S	9.10	1.00	9.10
2406	(iv) Float glassess 4.0 mm thick	sqm	1.27	248.00	314.96
0595	(v) Black enamelled M.S. Butt hinges 100x58x1.90mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. butt hinges 50x37x 1.50mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
2204	(iv) Carriage of timber	cum	0.05	60.81	3.04
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				2002.98
	Add 1 % for water charges				20.03
	TOTAL				2023.01
	Add 15% for contractor's profit and overheads				303.45
	Cost of 2.16 sqm.				2326.46
	Cost of 1 sqm.				1077.07
	Say				1077.05

9.10 Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS 14616 and TADS 15:2001 (Part B), using 4mm thick float glass panes for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws as per directions of Engineer-in-charge

9.10.1 30 mm thick shutters

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 220x108cm = 2.38sqm.				
	Materials:				
7151	Factory, made shutters glazed laminated veneer lumber door shutter	sqm	2.38	1290.00	3 070.20
9999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings:				
0595	Black enamelled M.S. butt hinges 100x58x1.90mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. butt hinges 50x37x 1.50mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws-40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws-20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter (Avg.)	Day	0.52	146.55	76.21
0114	Beldar	Day	0.60	135.25	81.15
9999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				3 346.68
	Add 1% for water charges				33.47
	TOTAL				3 380.15
	Add 15% for contractor's profit and overheads				507.02
	Cost of 2.38 sqm.				3 887.17
	Cost of 1 sqm.				1 633.26
	Say				1 633.25

9.11 Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, window and clereslory window shutters (Area of opening of glass panes excluding portion inside rebate shall be measured)

9.11.1 5.5mm thick instead of 4mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one sqm.				
	Materials:				
2407	Glasse Panes of 13.75 kg per sqm.	sqm	1.00	340.00	340.00
2406	Deduct panels of 10 kg per sqm.	sqm	1.00	248.00	248.00
	Net Cost				92.00
	Add 1 % for water charges				0.92
	TOTAL				92.92
	Add 15% for contractor's profit and overheads				13.94
	Cost of 1 sqm.				106.86
	Say				106.85

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
	Cost for 1 sqm.				
	Materials:				
7032	Froasted glass panes (4.0mm)	sqm	1.00	257.00	257.00
2406	Deduct cost of ordinary glass panes (4.0mm thick)	sqm	1.00	248.00	– 248.00
	Net Cost				9.00
	Add 1 % for water charges				0.09
	TOTAL				9.09
	Add 15% for contractor's profit and overheads				1.36
	Cost of 1 sqm.				10.45
	Say				10.45

9. 13 Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows, shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity	Rate	Amount
	Cost for 1 sqm.				
	Materials:				
7451	Pin headed glass panes (4.0mm)	sqm	1.00	160.00	–160.00
2406	Deduct cost of ordinary glass panes (4.0mm thick)	sqm	1.00	248.00	248.00
	Net Cost				88.00
	Add 1 % for water charges				0.88
	TOTAL				88.88
	Add 15% for contractor's profit and overheads				13.33
	Cost of 1 sqm.				102.21
	Say				102.20

9. 14 Extra for providing ISI marked Stainless Steel butt hinges instead of black enamelled M.S. butt hinges with necessary screws. (Shutter area to be measured).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one door shutter of a door 200xl08cm = 2.16 sqm.				
	stainless steel butt hinges-				
8220	100x60x2.5 mm	10 Nos	6.00	185.00	111.00
8218	50x37x1.5 mm	10 Nos	2.00	90.00	18.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
8214	Stainless steel screws 20 mm	100 Nos	8.00	63.00	5.04
	Deduct				
	Black enameled butt hinges				
0595	100x58x1.90mm	10 Nos	6.00	54.00	-32.40
0597	50x37x1.5mm	10 Nos	2.00	28.00	-5.60
	Black enameled Iron				
0637	Screws-40mm	100 Nos	48.00	30.00	-14.40
0640	Screws-20mm	100 Nos	8.00	15.00	-1.20
	TOTAL				155.80
	Add 1 % for water charges				1.56
	TOTAL				157.36

Code	Description	Unit	Quantity	Rate	Amount
	Add 15% for contractor's profit and overheads Extra cost of 2.16sqm. of shutter area Extra cost of 1 sqm. of shutter area Say				23.60 180.96 83.78 83.80

9. 15 Deduct if fixed shutters (without hinges) are provided instead of openable shutters for doors, windows or clerestory windows with :

9.15.1 Stainless steel butt hinges with stainless steel screws:

9.15.1.1 For 2nd class teak wood and other inferior class of wood shutters.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of fittings for shutter of size 200x108cm = 2.16 sqm. Materials: Anodised aluminum butt hinges				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	90.00	18.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
8214	Stainless steel screws 20 mm	100 Nos	8.00	63.00	5.04
	TOTAL				209.40
	Add 1% for water charges				2.09
	TOTAL				211.49
	Add 15% for contractor's profit and overheads				31.72
	Cost of 2.16 sqm.				243.21
	Cost of 1 sqm.				112.60
	Say				112.60

9. 15 Deduct if fixed shutters (without hinges) are provided instead of openable shutters for doors, windows or clerestory windows with :

9.15.2 Black enamelled M.S. butt hinges with necessary screws.

9.15.2.1 For 2nd class teak wood and other inferior class of wood shutters.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of hinges with screws for shutters of size 200x108cm = 2.16 sqm. Materials:				
0595	Iron butt hinges 100x58x1.90 mm (medium)	10 Nos	6.00	54.00	32.40
0597	Iron butt hinges 50x37x1.50 mm (medium)	10 Nos	2.00	28.00	5.60
0637	Iron screws 40 mm	100 Nos	48.00	30.00	14.40
0640	Iron screws 20 mm	100 Nos	8.00	15.00	1.20
	TOTAL				53.60
	Add 1% for water charges				0.54
	TOTAL				54.14
	Add 15% for contractor's profit and overheads				8.12
	Cost of 2.16 sqm.				62.26
	Cost of 1 sqm.				28.82
	Say				28.80

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 panelled) 200x108cm = 2.16 sqm. Materials: 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 .	10 cudm	40.00	410.00	1640.00
2204	Carriage of timber	cum	0.04	60.81	2.43
2406	Float glasses 4.0mm thick	sqm	0.99	248.00	245.52
	Fittings-				
0694	Anodised aluminium butt hinges-75x45x3.2 mm	10 Nos	6.00	98.00	58.80
0586	C.P. brass screws 40mm	100 Nos	48.00	150.00	72.00
	Labour-				
0111	Carpenter 1st class	Day	2.40	151.50	363.60
0119	Glazier	Day	0.18	141.60	25.49
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S	40.43	1.00	40.43
	TOTAL				2552.41
	Add 1 % for water charges				25.52
	TOTAL				2577.93
	Add 15% for contractor's profit and overheads				386.69
	Cost of 2.16 sqm.				2964.62
	Cost of 1 sqm.				1372.51
	Say				1372.50

9.16 Providing and fixing 25 mm thick shutters for cup board etc. :
9.16.2 Glazed shutters:
9.16.2.1 Second class teak wood including ISI marked anodised aluminium butt hinge with necessary screws.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutter of cup-board 200xl08cm = 2.16 sqm. Materials : (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				

Code	Description	Unit	Quantity	Rate	Amount
	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	Teak wood second class	10 cudm	43.00	410.00	1763.00
2204	(ii) Glasses (10kg/sqm) 4.0mm thick	sqm	1.27	248.00	314.96
0608	(iii) Piano hinges 75x45x3.2 mm	metre	6.00	21.00	12.60
0639	(iv)M.S. screws 25 mm	100 Nos	48.00	15.00	7.20
2204	(v) Carriage of timber	cum	0.043	60.81	2.61
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S	40.43	1.00	40.43
	TOTAL				2545.70
	Add 1 % for water charges				25.46
	TOTAL				2571.16
	Add 15% for contractor's profit and overheads				385.67
	Cost of 2.16 sqm.				2956.83
	Cost of 1 sqm.				1368.90
	Say				1368.90

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. Materials- 12mm thick particle board = 7.00sqm.+ Add wastage @ 5% = 0.35 sqm.				
0341	Total = 7.35 sqm.	sqm	7.35	258.00	1896.30
9999	Carriage of particle board	L.S	13.52	1.00	13.52
9999	Sundries and screws	L.S	26.91	1.00	26.91
	Labour-				
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				2199.42
	Add 1 % for water charges				21.99
	TOTAL				2221.41
	Add 15% for contractor's profit and overheads				333.21
	Cost of 7 sqm.				2554.62
	Cost of 1 sqm.				364.95
	Say				364.95

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):

9.17.2 18 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 350x200cm = 7sqm.				
	Materials-				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm.				
7055	Total = 7.35 sqm.	sqm	7.35	301.00	2 212.35
9999	Carriage of particle board	L.S	19.76	1.00	19.76
9999	Sundries and screws	L.S	26.91	1.00	26.91
	Labour-				
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				2 521.71
	Add 1 % for water charges				25.22
	TOTAL				2 546.93
	Add 15% for contractor's profit and overheads				382.04
	Cost of 7 sqm.				2 928.97
	Cost of 1 sqm.				418.42
	Say				418.40

9. 18 Providing and fixing prelaminated 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 polyurethene primer (fittings to be paid separately).

9.18.1 18mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 4 nos.				
	75x20cm shelves = 0.60 sqm.				
	Materials-				
	18mm thick particle board =				
	4x75x20cm = 0.60sqm.+				
	Wastage @ 5% = 0.03sqm:				
7478	Total = 0.63 sqm.	sqm	0.63	716.00	451.08
9999	Carriage of board	L.S	0.91	1.00	0.91
	Labour-				
0112	Carpenter 2nd class	Day	0.11	141.60	15.58
0114	Beldar	Day	0.06	135.25	8.12
9999	Sundries, Painting edges & Screws	L.S	7.80	1.00	7.80
	TOTAL				483.49
	Add 1 % for water charges				4.83
	TOTAL				488.32
	Add 15% for contractor's profit and overheads				73.25
	Cost of 0.60 sqm.				561.57
	Cost per sqm.				935.95
	Say				935.95

9.18 Providing and fixing prelaminated flat pressed 3 layer (medium densitly) particle board or graded wood particle board IS: 3087 marked with one side decorative and other side blancing lamination Grade I, Type II exterior grade IS: 12823 marked in shelves with screws abnd fittings wherever required, edges to be painted with polyurethene primer (fittings to be paid separately).

9.18.2 25 mm thick

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 4 nos. 75x20cm shelves = 0.60 sqm. Materials- 25mm thick particle board = 4x75x20cm = 0.60sqm.+ Wastage @ 5% = 0.03sqm:				
7479	Total = 0.63 sqm.	sqm	0.63	775.00	488.25
9999	Carriage of board	L.S	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.11	141.60	15.58
0114	Beldar	Day	0.06	135.25	8.12
9999	Sundries, Painting edges & Screws	L.S	7.80	1.00	7.80
	TOTAL				521.57
	Add 1 % for water charges				5.22
	TOTAL				526.79
	Add 15% for contractor's profit and overheads				79.02
	Cost of 0.60 sqm.				605.81
	Cost per sqm.				1009.68
	Say				1009.70

9.19 Providing and fixing 25 mm thick shutters for cupboards etc. including ISI marked black enamelled M.S. butt hinges with necessary screws :

9.19.1 Panelled or panelled and glazed shutters

9.19.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutters of a cup board (half panelled and half glazed) 200x108cm = 2.16 sqm. Materials- Teak wood (2nd class) Styles 4x2.00m = 8.00m+ Rails 3x1.105m = 3.315m = 11.315m 11.315x0.08x0.025 = 0.023 cum. Panels - 2x0.48x0.41x0.016 = 0.006 cum. Sash bars 2x1.14 = 2.28+ 6x0.48 = 2.88 = 5.16 5.16x0.038x0.025 = 0.005 cum. Beadings 16x0.92x0.014x0.012 = 0.002 cum. total = 0.036 cum.+ Add wastage @ 10% = 0.004 cum. Total = 0.040 cum. Say 40 cudm				

Code	Description	Unit	Quantity	Rate	Amount
1190	Teak wood (2nd class)	10 cudm	40.00	410.00	1640.00
2204	Carriage of timber	cum	0.04	60.81	2.43
0596	Iron hinges-75x47xl .70mm	10 Nos	6.00	34.00	20.40
0638	Screws 30mm	100 Nos	48.00	24.00	11.52
2406	Glasses 10kg/sqm (4.0mm thick)	sqm	0.99	248.00	245.52
	Labour-				
0156	Carpenter (Average)	Day	2.40	146.55	351.72
0114	Beldar	Day	0.77	135.25	104.14
0119	Glazier	Day	0.18	141.60	25.49
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				2441.65
	Add 1 % for water charges				24.42
	TOTAL				2466.07
	Add 15% for contractor's profit and overheads				369.91
	Cost of 2.16sqm.				2835.98
	Cost of 1 sqm.				1312.95
	Say				1312.95

9.19 Providing and fixing 25 mm thick shutters for cupboards etc. including ISI marked black enamelled M.S. butt hinges with necessary screws :

9.19.2 Glazed shutters

9.19.2.1 Second class teak wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutter of a door (glazed) 200xl08cm = 2.16 sqm. Materials : (i) Teak wood (2nd class) Styles : 4x200x9.5x2.5cm = 0.019cum+ Rails Top & intermediate rails 2x110.5x9.5x2.5cm = 0.006cum+ Lock and bottom rails 2x110.5x19.7x2.5cm = 0.011cum+ Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum. Total = 0.039 cum.+ Add for wastage @ 10% = 0.004cum. Grand Total = 0.043 cum. Say 43 cudm				
1190	Teak wood (2nd class)	10 cudm	43.00	410.00	1763.00
2406	(ii) Glasses (10 kg/sqm) 4.0mm thick	sqm	1.27	248.00	314.96
0595	(iii) Black enamelled M.S. butt hinges 100x58x1.90mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. butt hinges 50x37x 1.50mm	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
2204	(iv) Carriage of timber	cum	0.043	60.81	2.61
	Labour:				
0156	Carpenter (Avg.)	Day	1.83	146.55	268.19
0119	Glazier	Day	0.23	141.60	32.57
0114	Beldar	Day	0.77	135.25	104.14
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				2579.50
	Add 1% for water charges				25.80
	TOTAL				2605.30
	Add 15% for contractor's profit and overheads				390.80
	Cost of 2.16 sqm.				2996.10
	Cost of 1 sqm.				1387.08
	Say				1387.10

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 1st 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 2.20 sqm.				
	Materials-				
0713	35mm thick door shutters	sqm	2.20	1100.00	2420.00
9999	Carriage of door	L.S.	29.64	1.00	29.64
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
	Labour-				
	For fixing shutter and fittings				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				2790.99
	Add 1% for water charges				27.91
	TOTAL				2818.90
	Add 15% for contractor's profit and overheads				422.84
	Cost for 2.2 sqm.				3241.74
	Cost of 1 sqm.				1473.52
	Say				1473.50

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 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

9.20.2 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.				
	Materials-				
0714	30mm thick door shutters	sqm	2.20	1050.00	2310.00
9999	Carriage of door	L.S.	29.64	1.00	29.64
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
	Labour-				
	For fixing shutter and fittings.				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				2680.99
	Add 1 % for water charges				26.81
	TOTAL				2707.80
	Add 15% for contractor's profit and overheads				406.17
	Cost for 2.2 sqm.				3113.97
	Cost of 1 sqm.				1415.44
	Say				1415.45

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 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

9.20.3 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.				
	Materials-				
0715	25mm thick door shutters	sqm	2.20	1 000.00	2200.00
9999	Carriage of door	L.S.	29.64	1.00	29.64
	Fittings-For a door 2.2x1.00m = 2.20 sqm.				
0608	Nickel plated bright finished M.S. Piano hinges	metre	4.40	21.00	92.40
0639	Screws 25mm	100 Nos	125.00	15.00	18.75
	Labour-				
	For fixing shutter and fittings.				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				2495.78
	Add 1% for water charges				24.96
	TOTAL				2520.74
	Add 15% for contractor's profit and overheads				378.11
	Cost for 2.2 sqm.				2898.85
	Cost of 1 sqm.				1317.66
	Say				1317.65

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 1st 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.				
	Materials-				
0717	35mm thick door shutters	sqm	2.20	632.00	1390.40
9999	Carriage of door	L.S.	29.64	1.00	29.64
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
	Labour-				
	For fixing shutter and fittings.				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				1761.39
	Add 1 % for water charges				17.61
	TOTAL				1779.00
	Add 15% for contractor's profit and overheads				266.85
	Cost for 2.2 sqm.				2045.85
	Cost of 1 sqm.				929.93
	Say				929.95

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 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:

9.21.2 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.				
	Materials-				
0718	30mm thick door shutters	sqm	2.20	610.00	1 342.00
9999	Carriage of door	L.S.	29.64	1.00	29.64
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8211	Stainless steel screws 40 mm	100 Nos	48 .00	157.00	75.36
	Labour-				
	For fixing shutter and fittings.				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				1 712.99
	Add 1 % for water charges				17.13
	TOTAL				1 730.12
	Add 15% for contractor's profit and overheads				259.52
	Cost for 2.2 sqm.				1 989.64
	Cost of 1 sqm.				904.38
	Say				904.40

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 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :

9.21.3 25mm 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.				
	Materials-				
0719	25mm thick door shutters	sqm	2.20	600.00	1320.00
9999	Carriage of door	L.S.	29.64	1.00	29.64
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
0608	Nickel plated bright finished M.S. Piano hinges	metre	4.40	21.00	92.40
0639	Screws 25mm	100 Nos	125.00	15.00	18.75
	Labour-				
	For fixing shutter and fittings.				
0156	Carpenter (Average)	Day	0.55	146.55	80.60
0114	Beldar	Day	0.55	135.25	74.39
	TOTAL				1615.78
	Add 1% for water charges				16.16
	TOTAL				1631.94
	Add 15% for contractor's profit and overheads				244.79
	Cost for 2.2 sqm.				1876.73
	Cost of 1 sqm.				853.06
	Say				853.05

9.22 Extra for Providing and fixing flush doors with decorative veneering
9.22.1 On one side in item no. 9.21

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm.				
7307	Extra for providing teak veneering on one side instead of commercial veneering	sqm	1.00	225.00	225.00
	TOTAL				225.00
	Add 1% for water charges				2.25
	TOTAL				227.25
	Add 15% for contractor's profit and overheads				34.09
	Cost for one sqm.				261.34
	Say				261.35

9.23 Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured) Over item no. 9.20 and 9.21.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm. of door area				
0752	Door area	sqm of door area.	1.00	245.00	245.00
	TOTAL				245.00
	Add 1 % for water charges				2.45
	TOTAL				247.45
	Add 15% for contractor's profit and overheads				37.12
	Cost for one sqm. of door area				284.57
	Say				284.55

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	Rectangular or square per panel door area	sqm of door area	1.00	86.00	86.00
	TOTAL				86.00
	Add 1 % for water charges				0.86
	TOTAL				86.86
	Add 15% for contractor's profit and overheads				13.03
	Cost for one sqm. of door area				99.89
	Say				99.90

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):
9.24.2 Circular.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm. of door area				
0754	Circular panel door area	sqm of door area	1.00	118.00	118.00
	TOTAL				118.00
	Add 1% for water charges				1.18
	TOTAL				119.18
	Add 15% for contractor's profit and overheads				17.88
	Cost for one sqm. of door area				137.06
	Say				137.05

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 door	sqm of door area	1.00	210.00	210.00
	TOTAL				210.00
	Add 1 % for water charges				2.10
	TOTAL				212.00
	Add 15% for contractor's profit and overheads				31.82
	Cost for one sqm. of door area				243.92
	Say				243.90

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	Door area	sqm of door area	1.00	57.00	57.00
	TOTAL				57.00
	Add 1% for water charges				0.57
	TOTAL				57.57
	Add 15% for contractor's profit and overheads				8.64
	Cost for one sqm. of door area				66.21
	Say				66.20

9.27 Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws:

9.27.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm. Materials- 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.				

Code	Description	Unit	Quantity	Rate	Amount
1190	Teak wood (2nd class) Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.	10 cudm	51.40	410.00	2 107.40
7029	Wire gauge	sqm	1.41	142.00	200.22
0595	M.S. butt hinges 100x58x1.90 mm	10 Nos	6.00	54.00	32.40
0597	M.S. butt hinges 50x37x1.50 mm	10 Nos	2.00	28.00	5.60
0637	M.S. screws 40 mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20 mm	100 Nos	8.00	15.00	1.20
2204	Carriage of timber	cum	0.0514	60.81	3.13
	Labour-				
0111	Carpenter 1st class	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.05	135.25	142.01
0130	Mistry	Day	0.105	151.50	15.91
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				2 880.46
	Add 1 % for water charges				28.80
	TOTAL				2 909.26
	Add 15% for contractor's profit and overheads				436.39
	Cost of 2.16 sqm.				3 345.65
	Cost of 1 sqm.				1 548.91
	Say				1 548.90

9.27 Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws:

9.27.2 Kiln seasoned and chemically treated Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16sqm. Materials- 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. = 0.0514 cum. Say 51.4 cudm.				
2505	Hollock wood	10 cudm	51.4	230.00	1182.20
2204	Carriage of timber	cum	0.0514	60.81	3.13
2504	Kiln seasoning of timber	cum	0.0514	539.00	27.70
9999	Chemical treatment	L.S.	8.97	1.00	8.97
	Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.				
7029	Wire gauge	sqm	1.41	142.00	200.22
0595	Iron butt hinges 100x58x1.90 mm	10 Nos	6.00	54.00	32.40
0597	Iron butt hinges 50x37x1.50 mm	10 Nos	2.00	28.00	5.60
0637	M.S. screws 40 mm	100 Nos	48.00	30.00	14.40

Code	Description	Unit	Quantity	Rate	Amount
0640	M.S. screws 20 mm	100 Nos	8.00	15.00	1.20
	Labour-				
0111	Carpenter 1st class	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.05	135.25	142.01
0130	Mistry	Day	0.105	151.50	15.91
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				1 991.93
	Add 1 % for water charges				19.92
	TOTAL				2 011.85
	Add 15% for contractor's profit and overheads				301.78
	Cost of 2.16 sqm.				2 313.63
	Cost of 1 sqm.				1 071.13
	Say				1 071.10

9.28 Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked stainless steel butt hinges with necessary screws :

9.28.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16sqm. Materials- 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. = 0.0514 cum. Say 51.4 cudm.				
1190	Second class Teak wood Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.	10 cudm	51.40	410.00	2 107.40
7029	Wire gauge	sqm	1.41	142.00	200.22
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	90.00	18.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
8214	Stainless steel screws 20 mm	100 Nos	8.00	63.00	5.04
2204	Carriage of timber	cum	0.0514	60.81	3.13
	Labour-				
0111	Carpenter 1st class	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.05	135.25	142.01
0130	Mistry	Day	0.105	151.50	15.91
9s999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				3 036.26
	Add 1 % for water charges				30.36
	TOTAL				3 066.62
	Add 15% for contractor's profit and overheads				459.99
	Cost of 2.16 sqm.				3 526.61
	Cost of 1 sqm.				1 632.69
	Say				1 632.70

9.28 Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked stainless steel butt hinges with necessary screws :

9.28.2 Kiln seasoned and chemically treated Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm. Materials- 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. = 0.0514 cum. Say 51.4 cudm.				
2505	Hollock wood	10 cudm	51.40	230.00	1 182.20
2504	Kiln seasoning	cum	0.0514	539.00	27.70
9999	Chemical treatment Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.	L.S.	8.97	1.00	8.97
7029	Wire gauge	sqm	1.41	142.00	200.22
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.00	185.00	111.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.00	90.00	18.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
8214	Stainless steel screws 20 mm	100 Nos	8.00	63.00	5.04
2204	Carriage of timber	cum	0.0514	60.81	3.13
	Labour-				
0111	Carpenter 1st class	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	0.90	141.60	127.44
0114	Beldar	Day	1.05	135.25	142.01
0130	Mistry	Day	0.105	151.50	15.91
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				2 147.73
	Add 1 % for water charges				21.48
	TOTAL				2 169.21
	Add 15% for contractor's profit and overheads				325.38
	Cost of 2.16 sqm.				2 494.59
	Cost of 1 sqm.				1 154.90
	Say				1 154.90

9.29 Providing and fixing 30mm thick wire gauge shutters using galvanised M.S. wire gauge of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked Stainless Steel butt hinges with necessary screws :

9.29.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm. Materials- 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. = 0.044 cum. Say 44 cudm.				
1190	Teak wood (2nd class)	10 cudm	44. 00	410.00	1 804.00
2204	Carriage of timber Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.	cum	0.044	60.81	2.68
7029	Wire gauge	sqm	1.41	142.00	200.22
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	6.00	155.00	93.00
8211	Stainless steel screws 40 mm Labour-	100 Nos	48.00	157.00	75.36
0111	Carpenter 1st class	Day	1.20	151.50	181.80
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	0.95	135.25	128.49
0130	Mistry	Day	0.08	151.50	12.12
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				2 644.75
	Add 1% for water charges				26.45
	TOTAL				2 671.20
	Add 15% for contractor's profit and overheads				400.68
	Cost of 2.16 sqm.				3 071.88
	Cost of 1 sqm.				1 422.17
	Say				1 422.15

9.29 Providing and fixing 30mm thick wire gauge shutters using galvanised M.S. wire gauge of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked Stainless Steel butt hinges with necessary screws :

9.29.2 Kiln seasoned and chemically treated Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16sqm. Materials- Hollock wood Styles 4x209x9.5x3cm = 0.023 cum+				

Code	Description	Unit	Quantity	Rate	Amount
	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. = 0.044 cum. Say 44 cudm.				
2505	Hollock wood	10 cudm	44.00	230.00	1 012.00
2504	Kiln seasoning	cum	0.044	539.00	23.72
9999	Chemical treatment	L.S.	8.97	1.00	8.97
2204	Carriage of timber	cum	0.044	60.81	2.68
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm.				
7029	Wire gauge	sqm	1.41	142.00	200.22
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	6.00	155.00	93.00
8211	Stainless steel screws 40 mm	100 Nos	48.00	157.00	75.36
	Labour-				
0111	Carpenter 1st class	Day	1.20	151.50	181.80
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	0.95	135.25	128.49
0130	Mistry	Day	0.08	151.50	12.12
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				1 885.44
	Add 1% for water charges				18.85
	TOTAL				1 904.29
	Add 15% for contractor's profit and overheads				285.64
	Cost of 2.16 sqm.				2 189.93
	Cost of 1 sqm.				1 013.86
	Say				1 013.85

9.30 Providing and fixing 30mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia 0.63 mm for doors, windows and clerestory windows including ISl marked bright finished or /and black enamelled M.S. butt hinges with necessary screws :

9.30.1 Second class teak wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm. Materials- 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. = 0.44 cum. Say 44 cudm.				

Code	Description	Unit	Quantity	Rate	Amount
1190	Teak wood (2nd class)	10 cudm	44.00	410.00	1 804.00
2204	Carriage of timber	cum	0.044	60.81	2.68
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. = 1.41 sqm.				
7029	Wire gauge	sqm	1.41	142.00	200.22
0595	Iron butt hinges 100x58x1.90 mm	10 Nos	6.00	54.00	32.40
0597	Iron butt hinges 50x37x1.50 mm	10 Nos	2.00	28.00	5.60
0637	M.S. screws 40 mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20 mm	100 Nos	8.00	15.00	1.20
	Labour-				
0111	Carpenter 1st class	Day	1.20	151.50	181.80
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	1.00	135.25	135.25
0130	Mistry	Day	0.10	151.50	15.15
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				2 539.78
	Add 1% for water charges				25.40
	TOTAL				2 565.18
	Add 15% for contractor's profit and overheads				384.78
	Cost of 2.16 sqm.				2 949.96
	Cost of 1 sqm.				1 365.72
	Say				1 365.70

9.30 Providing and fixing 30mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws:

9.30.2 Kiln seasoned and chemically treated Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for door shutters 2.00x1.08m = 2.16sqm. Materials- 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. = 0.44 cum. Say 44 cudm.				
2505	Hollock wood	10 cudm	44.00	230.00	1012.00
2204	Carriage of timber	cum	0.044	60.81	2.68
2504	Kiln seasoning	cum	0.044	539.00	23.72
9999	Chemical treatment	L.S.	9.10	1.00	9.10
	Wire gauge 2xl60x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. = 1.41 sqm.				
7029	Wire gauge	sqm	1.41	142.00	200.22
0595	Iron butt hinges 100x58x 1.90 mm	10 Nos	6.00	54.00	32.40
0597	Iron butt hinges 50x37x1.50 mm	10 Nos	2.00	28.00	5.60

Code	Description	Unit	Quantity	Rate	Amount
0637	M.S. screws 40 mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20 mm	100 Nos	8.00	15.00	1.20
	Labour-				
0111	Carpenter 1st class	Day	1.20	151.50	181.80
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	1.00	135.25	135.25
0130	Mistry	Day	0.10	151.50	15.15
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				1780.60
	Add 1 % for water charges				17.81
	TOTAL				1798.41
	Add 15% for contractor's profit and overheads				269.76
	Cost of 2.16 sqm.				2068.17
	Cost of 1 sqm.				957.49
	Say				957.50

9.31 Providing and fixing wire gauze laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauze with average width of aperture 1.4mm in both directions with wire of dia 0.63mm as per IS : 1568 for doors, windows and clerestory windows including ISI marked bright finished or/ and black enamelled M.S. butt hinges 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 of one shutter 220xl08cm = 2.38sqm.				
	Materials:				
7154	Factory made shutters LVL syles, rails and panels of galvanised wire gauge	sqm	2.38	1328.00	3 160.64
9999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings :				
0595	Black enamelled M.S. Butt hinges-100x58x1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37x 1.5	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter Average	Day	0.52	146.55	76.21
0114	Beldar	Day	0.60	135.25	81.15
9999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				3 437.12
	Add 1 % for water charges				34.37
	TOTAL				3 471.49
	Add 15% for contractor's profit and overheads				520.72
	Cost of 2.38 sqm.				3 992.21
	Cost of 1 sqm.				1 677.40
	Say				1 677.40

9.31 Providing and fixing wire gauze laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauze with average width of aperture 1.4mm in both directions with wire of dia 0.63mm as per IS : 1568 for doors, windows and clerestory windows including ISI marked bright finished or/ and black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge:

9.31.2 30 mm thick shutters

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 220xl08cm = 2.38sqm.				
	Materials:				
7155	Factory made shutters LVL syles, rails and panels of galvanised wire gauge	sqm	2.38	1150.00	2 737.00
9999	Carriage of shutters	L.S.	29.64	1.00	29.64
	Fittings:				
0595	Black enamelled M.S. Butt hinges-100x5 8x1.9mm	10 Nos	6.00	54.00	32.40
0597	Black enamelled M.S. Butt hinges-50x37xl.5	10 Nos	2.00	28.00	5.60
0637	M.S. Screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. Screws 20mm	100 Nos	8.00	15.00	1.20
	Labour:				
0156	Carpenter Average	Day	0.52	146.55	76.21
0114	Beldar	Day	0.60	135.25	81.15
9999	Sundries	L.S.	35.88	1.00	35.88
	TOTAL				3013.48
	Add 1% for water charges				30.13
	TOTAL				3043.61
	Add 15% for contractor's profit and overheads				456.54
	Cost of 2.38 sqm.				3500.15
	Cost of 1 sqm.				1470.65
	Say				1470.65

9.32 Providing 50x50x50mm 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 100 Nos.				
	Materials:				
	Teak wood (2nd class) 100x(50x50x50)mm = 0.0125cum				
	Add wastage @ 10% = 0.0013 cum.				
	Total =0.0138 cum.				
	Say 14 cudm.				
1189	Teak wood (2nd class)	10 cudm	14.00	394.00	551.60
2204	Carriage of timber	cum	0.014	60.81	0.85
	Cement mortar 1:3(1 cement: 3 fine sand) (Rate as per item No. 3.3)	cum	0.002	2870.00	5.74
	Labour:				
0112	Carpenter 2nd class	Day	0.75	141.60	106.20
0124	Mason 2nd class	Day	0.75	141.60	106.20
0114	Beldar	Day	0.75	135.25	101.44
	TOTAL				872.03
	Add 1 % for water charges				8.72
	TOTAL				880.75
	Add 15% for contractor's profit and overheads				132.11
	Cost of 100 nos.				1 012.86
	Cost of 1 no.				10.13
	Say				10.15

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/CC/ R.C.C. and making good etc. complete.

9.33.1 25 mm long

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 nos.				
	Materials:				
7,312	Expandable fastner 25 mm long with plastic sleeve and M.S. screws	each	10.00	6.00	60.00
9,999	Labour for drilling holes and making good etc. and sundries	L.S.	20.80	1.00	20.80
	TOTAL				80.80
	Add 1 % for water charges				0.81
	TOTAL				81.61
	Add 15% for contractor's profit and overheads				12.24
	Cost of 10 nos.				93.85
	Cost of 1 no.				9.39
	Say				9.40

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 /CC/ R.C.C. and making good etc. complete.

9.33.2 32 mm long

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 nos.				
	Materials:				
7313	Expandable fastner 32 mm long with plastic sleeve and M.S. screws	each	10.00	7.00	70.00
9999	Labour for drilling holes and making good etc. and sundries	L.S.	26.00	1.00	26.00
	TOTAL				96.00
	Add 1% for water charges				0.96
	TOTAL				96.96
	Add 15% for contractor's profit and overheads				14.54
	Cost of 10 nos.				111.50
	Cost of 1 no.				11.15
	Say				11.15

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 /CC/ R.C.C. and making good etc. complete.

9.33.3 40 mm long

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 nos.				
	Materials:				
7314	Expandable fastner 40 mm long with plastic sleeve and M.S. screws	each	10.00	9.00	90.00
9999	Labour for drilling holes and making good etc. and sundries	L.S.	26.00	1.00	26.00
	TOTAL				116.00
	Add 1 % for water charges				1.16
	TOTAL				117.16
	Add 15% for contractor's profit and overheads				17.57
	Cost of 10 nos.				134.73
	Cost of 1 no.				13.47
	Say				13.45

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 /CC/ R.C.C. and making good etc. complete.

9.33.4 50 mm long

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 10 nos.				
	Materials:				
7315	Expandable fastner 50 mm long with plastic sleeve and M.S. screws	each	10.00	11.00	110.00
9999	Labour for drilling holes and making good etc. and sundries	L.S.	26.00	1.00	26.00
	TOTAL				136.00
	Add 1 % for water charges				1.36
	TOTAL				137.36
	Add 15% for contractor's profit and overheads				20.60
	Cost of 10 nos.				157.96
	Cost of 1 no.				15.80
	Say				15.80

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved on and 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.				
	Materials:				
	Teak wood (2nd class) 10x0.04m = 0.40cum+				
	Add wastage @ 10% = 0.04 cum.				
	= 0.44 cum.				
	Say 440 cudm.				
1190	Teak wood (2nd class)	10 cudm	440.00	410.00	18040.00
1238	Extra for selected planks	10 cudm	440.00	80.00	3520.00
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(A)	(Rate as per item no 9.32 of SH: 9)	each	55.00	10.15	558.25
(B)	Priming coat (Rate as per item no 13.50.1)	sqm	10.00	16.55	165.50
2204	Carriage of timber	cum	0.44	60.81	26.76
	Labour:				
	For planning and fixing				
0111	Carpenter 1st class	Day	2.15	151.50	325.72
0114	Beldar	Day	1.62	135.25	219.10
9999	Sundries & screws etc.	L.S.	53.82	1.00	53.82
	TOTAL				22909.15
	Add for water charges @ 1 % except (B+A)				221.85
	TOTAL				23131.00
	Add for contractor's profit and overheads @ 15% except (B+A)				3361.09
	Cost of 10 sqm.				26 492.09
	Cost of 1 sqm.				2649.21
	Say				2649.20

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface.

9.34.2 25 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:				
	Teak wood 2nd class 10x0.025 = 0.25cum+				
	Add wastage @ 10% = 0.025 cum.				
	= 0.275 cum.				
	Say 275 cudm.				
1190	Teak wood (2nd class)	10 cudm	275.00	410.00	11275.00
1238	Extra for selected planks	10 cudm	275.00	80.00	2200.00
2204	Carriage of timber	cum	0.275	60.81	16.72
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(A)	(Rate as per item no 9.32 of SH: 9)	each	55.00	10.15	558.25
(B)	Priming coat (Rate as per item no 13.50.1)	sqm	10.00	16.55	165.50
	Labour:				
0111	Carpenter 1 st class	Day	2.15	151.50	325.72
0114	Beldar	Day	1.62	135.25	219.10
9999	Sundries & screws etc.	L.S.	53.82	1.00	53.82
	TOTAL				14814.11
	Add for water charges @ 1 % except (B+A)				140.90
	TOTAL				14955.01
	Add for contractor's profit and overheads @ 15% except (B+A)				2134.69
	Cost of 10 sqm.				17089.70
	Cost of 1 sqm.				1708.97
	Say				1708.95

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface.

9.34.3 20 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:				
	Teak wood (2nd class) 10x0.02m = 0.20cum.+				
	Add wastage @ 10% = 0.02 cum.				
	= 0.22 cum.				
	Say 220 cudm.				
1190	Teak wood (2nd class)	10 cudm	220.00	410.00	9020.00
1231	Extra for selected planks	10 cudm	220.00	72.00	1584.00
2204	Carriage of timber	cum	0.22	60.81	13.38
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(A)	(Rate as per item no 9.32 of SH: 9)	each	55.00	10.15	558.25
(B)	Priming coat (Rate as per item no 13.50.1)	sqm	10.00	16.55	165.50
	Labour:				
0111	Carpenter 1 st class	Day	1.08	151.50	163.62
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	1.08	135.25	146.07
9999	Sundries & screws etc.	L.S.	53.82	1.00	53.82

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				11 817.92
	Add for water charges @ 1 % except (A+B)				110.94
	TOTAL				11 928.86
	Add for contractor's profit and overheads @ 15% except (A+B)				1 680.77
	Cost of 10 sqm.				13 609.63
	Cost of 1 sqm.				1 360.96
	Say				1 360.95

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface.

9.34.4 12 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Wood-Second class teak wood 10x0.012 = 0.12 cum+				
	Add wastage @ 10% = 0.012 cum.				
	= 0.132 cum.				
	Say 132 cudm.				
1190	Second class teak wood	10 cudm	132.00	410.00	5412.00
1231	Extra for selected planks	10 cudm	132.00	72.00	950.40
2204	Carriage of timber	cum	0.132	60.81	8.03
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(A)	(Rate as per item no 9.32 of SH: 9)	each	55.00	10.15	558.25
	Labour:				
0111	Carpenter 1 st class	Day	1.08	151.50	163.62
0112	Carpenter 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	1.08	135.25	146.07
(B)	Priming coat (Rate as per item no 13.50.1 of SH : Finishing)	sqm	10.00	16.55	165.50
9999	Sundries & screws etc.	L.S.	53.82	1.00	53.82
	TOTAL				7570.97
	Add for water charges @ 1 % except (A+B)				68.47
	TOTAL				7639.44
	Add for contractor's profit and overheads @ 15% except (A+B)				1037.35
	Cost of 10 sqm.				8676.79
	Cost of 1 sqm.				867.68
	Say				867.70

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood prelaminated one side decorative lamination on 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.				
	Materials-				
	Particle board (three layer medium density) 12mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	= 11 sqm.				
7477	Particle board (three layer medium density)	sqm	11.00	595.00	6 545.00
9999	Carriage of particle board	L.S.	13.52	1.00	13.52
9999	Sundries and screws	L.S.	26.91	1.00	26.91
	Priming coat				
(A)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	10.00	16.55	165.50
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter 2nd class	Day	1.28	141.60	181.25
0114	Beldar	Day	1.43	135.25	193.41
7048	Rawl plug 50 mm (designation 10 no)	each	55.00	7.00	385.00
	TOTAL				7510.59
	Add for water charges @ 1% on all except on (A)				73.45
	TOTAL				7584.04
	Add for contractor's profit and overheads @ 15% except (A)				1112.78
	Cost of 10 sqm.				8696.82
	Cost of 1 sqm.				869.68
	Say				869.70

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood prelaminated one side decorative lamination on 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 :

9.35.2 18 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	Particle board (three layer medium density) 18 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm. = 11 sqm.				
7478	Particle board (three layer medium density)	sqm	11.00	716.00	7876.00
9999	Carriage of particle board	L.S.	13.52	1.00	13.52
9999	Sundries and screws	L.S.	26.91	1.00	26.91
	Priming coat				
(A)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	10.00	16.55	165.50
	Labour:				
0112	Carpenter 2nd class	Day	1.28	141.60	181.25
0114	Beldar	Day	1.43	135.25	193.41
7048	Rawl plug 50 mm (designation 10 no)	each	55.00	7.00	385.00
	TOTAL				8841.59
	Add for water charges @ 1% on all except on 'A'				86.76
	TOTAL				8 928.35
	Add for contractor's profit and overheads @ 15% except (A)				1314.43
	Cost of 10 sqm.				10 242.78
	Cost of 1 sqm.				1024.28
	Say				1024.30

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood prelaminated one side decorative lamination on 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:

9.35.3 25 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	Particle board (three layer medium density) 25 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm. = 11 sqm.				
7479	Prelaminated particle board with one side decorative and other side balancing	sqm	11.00	775.00	8525.00

Code	Description	Unit	Quantity	Rate	Amount
	lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)25 mm thick				
9999	Carriage of particle board	L.S.	13.52	1.00	13.52
9999	Sundries and screws	L.S.	26.91	1.00	26.91
	Priming coat				
(A)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	10.00	16.55	165.50
	Labour:				
0112	Carpenter 2nd class	Day	1.28	141.60	181.25
0114	Beldar	Day	1.43	135.25	193.41
7048	Rawl plug 50 mm (designation 10 no)	each	55.00	7.00	385.00
	TOTAL				9490.59
	Add for water charges @ 1% on all except on'A'				93.25
	ATOTAL				9583.84
	Add for contractor's profit and overheads @ 15% except (A)				1412.75
	Cost of 10 sqm.				10996.59
	Cost of 1 sqm.				1099.66
	Say				1099.65

9.36 Providing and fixing specified wood frame work consisting of battens 50x25mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.

9.36.1 Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 no. battens of size 500cmx50mmx25mm (31.25 cudm)				
	Materials-				
	Hollock wood- 5x5.00x0.50x0.025 = 0.03125 cum+				
	Add wastage @ 5% = 0.00156 cum.				
	= 0.03281 cum.				
	Say 33 cudm.				
2505	Hollock wood	10 cudm	33.00	230.00	759.00
2204	Carriage of timber	cum	0.033	60.81	2.01
	Labour:				
0111	Carpenter 1 st class	Day	1.00	151.50	151.50
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	6.76	1.00	6.76
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
(A)	(Rate as per item no 13.50.1)	sqm	3.75	16.55	62.06
7048	Rawl plug 50 mm (designation 10 no)	each	55.00	7.00	385.00
9999	Labour for drilling holes steel tape sundries etc.	L.S.	71.50	1.00	71.50
	TOTAL				1471.64
	Add water charges @ 1 % on all except on cost of priming coat (A)				14.10
	TOTAL				1485.74
	Add contractor's profit and overheads @ 15% on all except on cost of priming coat (A)				213.55
	Cost of 31.25 cudm.				1699.29
	Cost of 1 cum.				54377.28
	Say				54377.30

9.37 Providing and fixing decorative plywood 4 mm thick one side decorative veneer conforming to IS: 1328 (type-1) for plain lining / cladding with necessary screws, 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.				
	Materials-				
	Teak ply wood = 10sqm.+				
	Add for wastage @ 20% = 2 sqm.				
	= 12 sqm.				
0759	teak ply wood	sqm	12.00	250.00	3 000.00
9999	Carriage of ply wood	L.S.	5.46	1.00	5.46
	Wooden plugs including cutting brick work and fixing in cement mortar				
(B)	(Rate as per item no 9.32 of SH : Wood work)	each	55.00	10.15	558.25
	Labour-				
0111	Carpenter 1st class	Day	3.80	151.50	575.70
0114	Beldar	Day	4.60	135.25	622.15
0130	Mistry	Day	0.60	151.50	90.90
9999	20mm nails without head for fixing ply	L.S.	53.82	1.00	53.82
	Painting with ready mixed priming coat				
(A)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	10.00	16.55	165.50
	TOTAL				5 071.78
	Add for water charges @ 1% on all except (B+A)				43.48
	TOTAL				5 115.26
	Add for contractor's profit and overheads @ 15% on all except (B+A)				658.73
	Cost of 10 sqm.				5 773.99
	Cost of 1 sqm.				577.40
	Say				577.40

9.38 Providing and fixing 4mm 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.				
	Materials-				
	Coir veneered board 4mm thick = 10sqm.+				
	Add for wastage @ 20% = 2 sqm.				
	= 12 sqm.				
7552	Coir veneered board 4mm thick	sqm	12.00	235.00	2 820.00
9999	Carriage of Coir veneered board	L.S.	5.46	1.00	5.46
	Wooden plugs including cutting brick work and fixing in cement mortar				
(B)	(Rate as per item no 9.32 of SH : Wood work)	each	55.00	10.15	558.25
	Labour-				
0111	Carpenter 1st class	Day	3.80	151.50	575.70
0114	Beldar	Day	4.60	135.25	622.15
0130	Mistry	Day	0.60	151.50	90.90
9999	20mm nails without head for fixing ply	L.S.	53.82	1.00	53.82
	Painting with ready mixed priming coat				
(A)	(Rate as per item no 13.50.l of SH : Finishing)	sqm	10.00	16.55	165.50
	TOTAL				4 891.78
	Add for water charges @ 1% on all except (B+A)				41.68
	TOTAL				4 933.46
	Add for contractor's profit and overheads @ 15% on all except (B+A)				631.46
	Cost of 10 sqm.				5 564.92
	Cost of 1 sqm.				556.49
	Say				556.50

9.39 Providing and fixing skirting of prelaminated with (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. Area = 0.2x30= 6 sqm. Materials- Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm. = 6.6 sqm.				
7478	Particle board 18 mm thick	sqm	6.60	716.00	4725.60
9999	Carriage of particle board	L.S.	8.11	1.00	8.11
7048	Rawl plug 50 mm (designation 10 no)	each	102.00	7.00	714.00
9999	Labour for drilling holes	L.S.	130.00	1.00	130.00
	Labour:- For dressing and fixing particle board to skirting				
0112	Carpenter 2nd class	Day	0.77	141.60	109.03
0114	Beldar	Day	0.86	135.25	116.32
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.00	53.82
	Painting with ready mixed priming coat at back				
	(Rate as per item no 13.50.I of SH : Finishing)	sqm	6.00	16.55	99.30 (A)
	TOTAL				5956.18
	Add for water charges @ 1% on all except 'A'				58.57
	TOTAL				6014.75
	Add for contractor's profit and overheads @ 15% on all except 'A'				887.32
	Cost of 6 sqm.				6902.07
	Cost of 1 sqm.				1150.35
	Say				1150.35

9.39 Providing and fixing skirting of prelaminated with (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 :

9.39.2 25 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm. Area = 0.2x30= 6 sqm. Materials- Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm. = 6.6 sqm.				
7,479	Particle board 25 mm thick	sqm	6.60	775.00	5 115.00
9,999	Carriage of particle board	L.S.	8.11	1.00	8.11

Code	Description	Unit	Quantity	Rate	Amount
7048	Rawl plug 50 mm (designation 10 no)	each	102.00	7.00	714.00
9999	Labour for drilling holes	L.S.	130.00	1.00	130.00
	Labour:-				
	For dressing and fixing particle board to skirting				
0112	Carpenter 2nd class	Day	0.77	141.60	109.03
0114	Beldar	Day	0.86	135.25	116.32
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.00	53.82
	Painting with ready mixed priming coat at back				
(A)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	6.00	16.55	99.30
	TOTAL				6 345.58
	Add for water charges @ 1% on all except 'A'				62.46
	TOTAL				6 408.04
	Add for contractor's profit and overheads @ 15% on all except 'A'				946.31
	Cost of 6 sqm.				7 354.35
	Cost of 1 sqm.				1 225.73
	Say				1 225.70

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)				
	Materials-				
	Teak wood IInd class in planks 500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	= 0.0033 cum. Say 3.3 cudm.				
1190	Second class teak wood	10 cudm	3.30	410.00	135.30
2204	Carriage of timber	cum	0.0033	60.81	0.20
0637	Iron screws 40 mm	100 Nos	36.00	30.00	10.80
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
(B)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	0.37	16.55	6.12
	Labour-				
	For plaining, fixing and making design				
0111	Carpenter 1st class	Day	0.53	151.50	80.30
	TOTAL				232.72
	Add for water charges @ 1% on all except (B)				2.27
	TOTAL				234.99
	Add for contractor's profit and overheads @ 15% on all except (B)				34.33
	Cost of 5 m.				269.32
	Cost of 1m				53.86
	Say				53.85

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
9.40.1.2 50x20 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for beading of a window of size 140x110cm i.e. 500cm. long (5metre)				
	Materials-				
	Teak wood IInd class in planks 500x5x2.0cm = 0.005cum+				
	Add for wastage @ 10% = 0.0005 cum. = 0.0055 cum. Say 5.5 cudm.				
1190	Second class teak wood	10 cudm	5.50	410.00	225.50
2204	Carriage of timber	cum	0.0055	60.81	0.33
0637	Iron screws 40 mm	100 Nos	36.00	30.00	10.80
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
(B)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	0.45	16.55	7.45
	Labour-				
	For plaining, fixing and making design				
0111	Carpenter 1 st class	Day	0.53	151.50	80.30
	TOTAL				324.38
	Add for water charges @ 1% on all except (B)				3.17
	TOTAL				327.55
	Add for contractor's profit and overheads @ 15% on all except (B)				48.02
	Cost of 5 m.				375.57
	Cost of 1m				75.11
	Say				75.10

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 :
9.40.2 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)				
	Materials-				
	Hollock wood 500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum. = 0.0033 cum. Say 3.3 cudm.				
2505	Hollock wood	10 cudm	3.30	230.00	75.90
2204	Carriage of timber	cum	0.0033	60.81	0.20
0637	Iron screws 40 mm	100 Nos	36.00	30.00	10.80
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
(B)	(Rate as per item no 13.50.l of SH : Finishing)	sqm	0.37	16.55	6.12
	Labour-				
	For plaining, fixing and making design				
0111	Carpenter 1 st class	Day	0.53	151.50	80.30
	TOTAL				173.32
	Add for water charges @ 1% on all except (B)				1.67
	TOTAL				174.99
	Add for contractor's profit and overheads @ 15% on all except (B)				25.33
	Cost of 5 m.				200.32
	Cost of 1m				40.06
	Say				40.05

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 :

9.40.2 Hollock wood

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)				
	Materials-				
	Hollock wood				
	500x5x200cm = 0.005 cum+				
	Add for wastage @ 10% = 0.0005 cum.				
	= 0.0055 cum. Say 5.5 cudm.				
2,505	Hollock wood	10 cudm	5.50	230.00	126.50
2,204	Carriage of timber	cum	0.0055	60.81	0.33
0637	Iron screws 40 mm	100 Nos	36.00	30.00	10.80
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
(B)	(Rate as per item no 13.50.1 of SH : Finishing)	sqm	0.45	16.55	7.45
	Labour-				
	For plaining, fixing and making design				
0111	Carpenter 1 st class	Day	0.53	151.50	80.30
	TOTAL				225.38
	Add for water charges @ 1% on all except (B)				2.18
	TOTAL				227.56
	Add for contractor's profit and overheads @ 15% on all except (B)				33.02
	Cost of 5 m.				260.58
	Cost of lm				52.12
	Say				52.10

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 of a jaffri 200x110cm = 2.2sqm.				
	Materials-				
	Teakwood IInd class				
	Jaffri 210x120x1.0cm = 0.025cum.+				
	Beading 660x5x1.2cm = 0.004cum.				
	= 0.029 cum.+				
	Add wastage @ 10% = 0.003 cum.				
	= 0.032 cum. Say 32 cudm.				
1190	Second class teak wood	10 cudm	32.00	410.00	1 312.00
2204	Carriage of timber	cum	0.032	60.81	1.95
	Labour-				
0111	Carpenter 1 st class	Day	0.75	151.50	113.62
0112	Carpenter 2nd class	Day	1.00	141.60	141.60
0114	Beldar	Day	0.50	135.25	67.62
0130	Mistry	Day	0.10	151.50	15.15
9999	Sundries	L.S.	33.80	1.00	33.80
	TOTAL				1 685.74
	Add 1% for water charges				16.86
	TOTAL				1 702.60
	Add 15% for contractor's profit and overheads				255.39
	Cost of 2.2 sqm.				1 957.99
	Cost of 1 sqm.				890.00
	Say				890.00

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 and rawl plugs 50 mm long (designation 10 no.) etc all complete

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a pelmet 2m long				
	Materials-				
7055	(i) 18mm thick particle board (medium density exterior grade) Front-1x1.7x0.15=0.255sqm.+ Sides-2xO. 15x0.15= 0.045sqm. = 0.300sqm.+ Add wastage @5% = 0.015sqm. = 0.315sqm. Say 0.32 sqm.	sqm	0.32	301.00	96.32
	6mm thick commercial ply wood Top-lxl.7x0.15= 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	282.00	76.14
7034	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	54.00	89.10
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.0	3.00	6.00
9999	Carriage of material	L.S.	0.52	1.00	0.52
9999	M.S. flat 25x3mm and 10cm long over brackets	L.S.	8.06	1.00	8.06
7048	Rawl plug 50 mm (designation 10 no)	each	2.0	7.00	14.00
	Labour-				
0112	Carpenter 2nd class	Day	0.18	141.60	25.49
0114	Beldar	Day	0.18	135.25	24.34
0130	Mistry	Day	0.11	151.50	16.66
9999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				359.36
	Add for water charge @ 1%				3.59
	TOTAL				362.95
	Add for contractor's profit and overheads @ 15%				54.44
	Cost of 2 m				417.39
	Cost of lm.				208.70
	Say				208.70

9.43 Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842 - 2000, including top cover of 6 mm coir veneer board, 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 and rawl plug 50 mm long (designation 10 No.) etc., all complete

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a pelmet 2m long Materials- (i) 18mm thick Coir veneered board Front-1 x 1.7x0.15= 0.255sqm.+ Sides-2xO. 15x0.15= 0.045sqm. = 0.300sqm.+				

Code	Description	Unit	Quantity	Rate	Amount
	Add wastage @5% = 0.015sqm. = 0.315sqm. Say 0.32 sqm.				
7556	Coir veneered board 18mm thick 6mm thick commercial ply wood Top-1 x 1.7x0.15= 0.255sqm.+ Add wastage @ 5% = 0.013 sqm. = 0.268 sqm. Say 0.27 sqm.	sqm	0.32	820.00	262.40
7553	Coir veneered board 6mm thick	sqm	0.27	308.00	83.16
7034	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	54.00	89.10
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.00	3.00	6.00
9999	Carriage of material	L.S.	0.52	1.00	0.52
9999	M.S. flat 25x3mm and 10cm long over brackets	L.S.	8.06	1.00	8.06
7048	Rawl plug 50 mm (designation 10 no)	each	2.0	7.00	14.00
	Labour-				
0112	Carpenter 2nd class	Day	0.18	141.60	25.49
0114	Beldar	Day	0.18	135.25	24.34
0130	Mistry	Day	0.11	151.50	16.66
9999	Sundries	L.S.	2.73	1.00	2.73
	TOTAL				532.46
	Add for water charge @ 1%				5.32
	TOTAL				537.78
	Add for contractor's profit and overheads @ 15%				80.67
	Cost of 2 m				618.45
	Cost of lm.				309.23
	Say				309.20

9.44 Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.

9.44.1 Non decorative veneer on both sides.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a pelmet 2m long Materials- (i) 18mm thick particle board (medium density exterior grade) Front-lxl.7x0.15= 0.255sqm.+ Sides-2xO. 15x0.15= 0.045sqm. = 0.300sqm.+ Add wastage @5% = 0.015sqm. = 0.315sqm. Say 0.32 sqm.				
0347	Extra cost for commercial veneering both sides	sqm	0.32	102.00	32.64
	TOTAL				32.64
	Add for water charge @ 1%				0.33
	TOTAL				32.97
	Add for contractor's profit and overheads @ 15%				4.95
	Cost of 2m				37.92
	Cost of lm.				18.96
	Say				18.95

9.44 Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.

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 Materials- (i) 18mm thick particle board (medium density exterior grade) Front-lxl.7x0.15= 0.255sqm.+ Sides-2xO. 15x0.15= 0.045sqm. = 0.300sqm.+ Add wastage @5% = 0.015sqm. = 0.315sqm. Say 0.32 sqm.				
0348	Extra cost for prelaminated particle board with teak finish both sides	sqm	0.32	366.00	117.12
	TOTAL				117.12
	Add for water charge @ 1 %				1.17
	TOTAL				118.29
	Add for contractor's profit and overheads @ 15%				17.74
	Cost of 2m				136.03
	Cost of lm.				68.02
	Say				68.00

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 Materials-				
7049	Lipping with teak wood 25x3 mm	metre	10.00	16.00	160.00
	Labour-				
0112	Carpenter 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	0.25	135.25	33.81
	TOTAL				229.21
	Add for water charge @ 1 %				2.29
	TOTAL				231.50
	Add for contractor's profit and overheads @ 15%				34.72
	Cost for 10 meter				266.22
	Cost of lm.				26.62
	Say				26.60

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 Materials-				
0590	C.P. brass curtain rod 12 mm dia	metre	2.0	122.00	244.00
7023	C.P. brass brackets	each	2.0	5.00	10.00
9999	C.P. brass screws	L.S.	4.03	1.00	4.03
9999	Carriage	L.S.	1.56	1.00	1.56
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				

Code	Description	Unit	Quantity	Rate	Amount
(B)	(Rate as per item no 9.32 of SH : Wood work)	each	2.00	10.15	20.30
9999	Labour	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	1.56	1.00	1.56
	TOTAL				284.18
	Add for water charge @ 1% on all except (B)				2.64
	TOTAL				286.82
	Add for contractor's profit and overheads @ 15% on all except (B)				39.98
	Cost of 2m				326.80
	Cost of lm.				163.40
	Say				163.40

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 :

9.46.2 20 mm dia.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2m long				
	Materials-				
0591	C.P. brass curtain rod 20 mm dia	metre	2.0	143.00	286.00
7023	C.P. brass brackets	each	2.0	5.00	10.00
9999	C.P. brass screws	L.S.	4.03	1.00	4.03
9999	Carriage	L.S.	1.56	1.00	1.56
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(B)	(Rate as per item no 9.32 of SH : Wood work)	each	2.0	10.15	20.30
9999	Labour	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	1.56	1.00	1.56
	TOTAL				326.18
	Add for water charge @ 1% on all except (B)				3.06
	TOTAL				329.24
	Add for contractor's profit and overheads @ 15% on all except (B)				46.34
	Cost of 2m				375.58
	Cost of lm.				187.79
	Say				187.80

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 :

9.46.3 25 mm dia.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2m long				
	Materials-				
0592	C.P. brass curtain rod 25 mm dia	metre	2.0	239.00	478.00
7023	C.P. brass brackets	each	2.0	5.00	10.00
9999	C.P. brass screws	L.S.	4.03	1.00	4.03
9999	Carriage	L.S.	1.56	1.00	1.56
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
(B)	(Rate as per item no 9.32 of SH : Wood work)	each	2.0	10.15	20.30

Code	Description	Unit	Quantity	Rate	Amount
9999	Labour	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	1.56	1.00	1.56
	TOTAL				518.18
	Add for water charge @ 1% on all except (B)				4.98
	TOTAL				523.16
	Add for contractor's profit and overheads @ 15% on all except (B)				75.43
	Cost of 2m				598.59
	Cost of lm.				299.30
	Say				299.30

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.				
	Materials :				
7042	(i) Nickel plated M.S. pipe 20 mm dia	metre	2.00	44.00	88.00
7035	(ii) Nickel plated M.S. bracket	each	2.00	3.00	6.00
9999	(iii) Screws	L.S.	4.03	1.00	4.03
9999	(iv) Carriage	L.S.	1.56	1.00	1.56
7048	(v) Rawl plug 50 mm (designation 10 no)	each	2.00	7.00	14.00
9999	(vi) Labour including fixing rawl plug	L.S.	5.20	1.00	5.20
9999	(vii) Sundries	L.S.	1.56	1.00	1.56
	TOTAL				120.35
	Add for water charge @ 1 %				1.20
	TOTAL				121.55
	Add for contractor's profit and overheads @ 15%				18.23
	Cost for 2 meter				139.78
	Cost of lm.				69.89
	Say				69.90

9.47 Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :
9.47.2 25 mm dia (heavy type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2m long.				
	Materials:				
7043	(i) Nickel plated M.S. pipe 25 mm dia	metre	2.00	49.00	98.00
7036	(ii) Nickel plated M.S. bracket	each	2.00	4.00	8.00
999	(iii) Screws	L.S.	4.03	1.00	4.03
9999	(iv) Carriage	L.S.	1.56	1.00	1.56
7048	(v) Rawl plug 50 mm (designation 10 no)	each	2.00	7.00	14.00
9999	(vi) Labour including fixing rawl plug	L.S.	5.20	1.00	5.20
9999	(vii) Sundries	L.S.	1.56	1.00	1.56
	TOTAL				132.35
	Add for water charge @ 1%				1.32
	TOTAL				133.67
	Add for contractor's profit and overheads @ 15%				20.05
	Cost for 2 meter				153.72
	Cost of lm.				76.86
	Say				76.85

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. 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+ Add wastage @ 10% = 1.50kg. = 16.45kg. Say 0.165 quintal				
1003	M.S.bar M.S. flat 25x3.15mm 2xl20cm = 2.40m+ 2x90cm= 1.80m+ lxl20cm= 1.20m+ 2x15cm = 0.30m =5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. = 3.95kg. Say 4 kg. or 0.04 quintal	quintal	0.165	3 050.00	503.25
1008	M.S. flat	quintal	0.04	2 900.00	116.00
2205	Carriage of steel 0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne	tonne	0.02	47.29	0.95
9999	Sundries	L.S.	26.91	1.00	26.91
9999	Welding charges	L.S.	19.76	1.00	19.76
	Labour-				
0102	Blacksmith 1st class	Day	0.86	151.50	130.29
0114	Beldar	Day	1.10	135.25	148.78
	TOTAL				945.94
	Add for water charge @ 1 %				9.46
	TOTAL				955.40
	Add for contractor's profit and overheads @ 15%				143.31
	Cost for 18.54 kg.				1 098.71
	Cost for 1 kg.				59.26
	Say				59.25

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. all complete.

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+ Add wastage @ 10% = 1.50kg. = 16.45kg. Say 0.165quintal				
1003	M.S. bar M.S. flat 25x3.15mm 2xl20cm = 2.40m+ 2x90cm= 1.80m+ lxl20cm= 1.20m+ 2xl5cm = 0.30m =5.70m	quintal	0.165	3 050.00	503.25

Code	Description	Unit	Quantity	Rate	Amount
	5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. = 3.95kg. Say 4 kg. or 0.04 quintal				
1008	M.S. flat	quintal	0.04	2 900.00	116.00
2205	Carriage of steel 0.165 + 0.04 = 0.205 q = 0.0205 tonne. Say 0.02 tonne	tonne	0.02	47.29	0.95
9999	Sundries	L.S.	26.91	1.00	26.91
9999	Welding charges	L.S.	19.76	1.00	19.76
	Labour-				
0102	Blacksmith 1st class	Day	0.86	151.50	130.29
0114	Beldar	Day	1.10	135.25	148.78
7048	Rawl plug 50 mm (designation 10 no)	each	8.00	7.00	56.00
9999	Fixing of rawl plugs	L.S.	26.00	1.00	26.00
	TOTAL				1 027.94
	Add for water charge @ 1 %				10.28
	TOTAL				1 038.22
	Add for contractor's profit and overheads @ 15%				155.73
	Cost for 18.54 kg.				1 193.95
	Cost for 1 kg.				64.40
	Say				64.40

9.49 Providing and fixing expanded metal 20x60mm strands 3.25mm wide and 1.6mm thick for windows etc. including 62x19mm beading of IInd class teak wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a window of size 140x110cm =1.54sqm. Materials- Expended metal -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. = 1.69 sqm.				
1015	Expended metal -.	sqm	1.69	200.00	338.00
9999	Carriage	L.S.	1.82	1.00	1.82
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum.+ Add wastage @ 10% = 0.00059cum. = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood	10 cudm	6.00	410.00	246.00
2204	Carriage of timber	cum	0.006	60.81	0.36
	Labour-				
0112	Carpenter 2nd class	Day	0.33	141.60	46.73
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				693.63
	Add for water charge @ 1 %				6.94
	TOTAL				700.57
	Add for contractor's profit and overheads @ 15%				105.09
	Cost of 1.54 sqm.				805.66
	Cost of 1 sqm.				523.16
	Say				523.15

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.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a window of size 140x110cm =1.54sqm.				
	Materials-				
	Hard drawn steel wire fabric -20x60mm mesh 3.2mm wide = 1.4x1.1m= 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	= 1.69 sqm.				
1021	Hard drawn steel wire fabric	sqm	1.69	310.00	523.90
9999	Carriage of wire fabric	L.S.	1.82	1.00	1.82
	Second class teak wood beading 5mx62mmx19mm = 0.00059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	= 0.000649cum. Say 6 cudm.				
1190	Second class teak wood	10 cudm	6.00	410.00	246.00
2204	Carriage of timber	cum	0.006	60.81	0.36
	Labour-				
0112	Carpenter 2nd class	Day	0.33	141.60	46.73
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				872.38
	Add for water charge @ 1 %				8.72
	TOTAL				881.10
	Add for contractor's profit and overheads @ 15%				132.16
	Cost of 1.54 sqm.				1 013.26
	Cost of 1 sqm.				657.96
	Say				657.95

9.51 Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory windows using galvanised M.S. wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.

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 140x110cm =1.54sqm.				
	Materials-				
	Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1 m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	= 1.69 sqm.				
7029	Wire gauge	sqm	1.69	142.00	239.98
9999	Carriage of wire fabric	L.S.	1.82	1.00	1.82
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	= 0.00649cum. Say 6 cudm.				
1190	Second class teak wood	10 cudm	6.00	410.00	246.00
2204	Carriage of timber	cum	0.006	60.81	0.36
	Labour-				
0112	Carpenter 2nd class	Day	0.33	141.60	46.73
0114	Beldar	Day	0.25	135.25	33.81

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				588.46
	Add for water charge @ 1%				5.88
	TOTAL				594.34
	Add for contractor's profit and overheads @ 15%				89.15
	Cost of 1.54 sqm.				683.49
	Cost of 1 sqm.				443.82
	Say				443.80

9.51 Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory windows using galvanised M.S. wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.

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.				
	Materials-				
	Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	= 1.69 sqm.				
7029	Wire gauge	sqm	1.69	142.00	239.98
9999	Carriage of wire fabric	L.S.	1.82	1.00	1.82
7349	12 mm mild steel U beading	metre	5.00	9.00	45.00
	Labour-				
0112	Carpenter 2nd class	Day	0.33	141.60	46.73
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				387.10
	Add for water charge @ 1 %				3.87
	TOTAL				390.97
	Add for contractor's profit and overheads @ 15%				58.65
	Cost of 1.54 sqm.				449.62
	Cost of 1 sqm.				291.96
	Say				291.95

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.				
	Materials-				
1021	Hard drawn steel wire fabric	sqm	1.00	310.00	310.00
2406	Glass 10 kg/sqm (4 mm)	sqm	1.00	248.00	248.00
	Difference of cost				62.00
	Add for water charge @ 1 %				0.62
	TOTAL				62.62
	Add for contractor's profit and overheads @ 15%				9.39
	Extra cost for 1 sqm.				72.01
	Say				72.00

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 embedding in cement concrete block 30x10 x 15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 hold fast				
	Materials-				
1008	M.S.flat 40x5mm 40cm long @ 1.68 kg/m = 0.672 kg = 0.0067 qunital	quintal	0.0067	2 900.00	19.43
9999	Carriage of steel	L.S.	1.82	1.00	1.82
	Cement concrete 1:3:6				
	30xl0xl5cm= 0.0045cum.+				
	Add wastage @ 10% = 0.00045cum.				
	= 0.00495cum. Say 0.005cum.				
(A)	(Rate as per item no 4.2.5)	cum	0.005	3 112.70	15.56
9999	Bolts and nuts	L.S.	5.46	1.00	5.46
	Labour-				
0103	Blacksmith 2nd class	Day	0.03	141.60	4.25
0123	Mason 1st class	Day	0.03	151.50	4.54
0114	Beldar	Day	0.03	135.25	4.06
	TOTAL				55.12
	Add for water charge @ 1% on all except (A)				0.40
	TOTAL				55.52
	Add for contractor's profit and overheads @ 15% on all except (A)				5.99
	Cost for 1 hold fast				61.51
	Say				61.50

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. or203cudm.				
	Materials-				
	Sal wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	= 207.06cudm. Say 207.1 cudm.				
1199	Sal wood	10 cudm	207.10	218.00	4514.78
2204	Carriage of timber	cum	0.207	60.81	12.59
	Priming coat (wood preservative)				
(A)	(Rate as per item no 13.57.1)	sqm	0.54	12.80	6.91
	Labour-				
0112	Carpenter 2nd class	Day	0.70	141.60	99.12
0114	Beldar	Day	1.45	135.25	196.11
0100	Bandhani	Day	0.70	138.45	96.92
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				4953.34
	Add for water charge @ 1 % on all except (A)				49.46
	TOTAL				5002.80
	Add for contractor's profit and overheads @ 15% on all except (A)				749.38
	Cost for 203 cudm.				5752.18
	Cost of 1 cum.				28335.86
	Say				28335.90

9.54 Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with :

9.54.2 Hollock wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a beam 450x30x15cm = 0.203cum. or203cudm. Materials- Hollock wood = 203 cudm.+ Add wastage @ 2% = 4.06cudm. = 207.06cudm. Say 207.1 cudm.				
2466	Hollock wood	10 cudm	207.10	217.00	4494.07
2204	Carriage of timber	cum	0.207	60.81	12.59
	Priming coat (wood preservative)				
(A)	(Rate as per item no 13.57.1)	sqm	0.54	12.80	6.91
	Labour-				
0112	Carpenter 2nd class	Day	0.70	141.60	99.12
0114	Beldar	Day	1.45	135.25	196.11
0100	Bandhani	Day	0.70	138.45	96.92
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				4932.63
	Add for water charge @ 1% on all except (A)				49.26
	TOTAL				4981.89
	Add for contractor's profit and overheads @ 15% on all except (A)				746.25
	Cost for 203 cudm.				5728.14
	Cost of 1 cum.				28217.44
	Say				28217.40

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				
	Materials-				
0594	Butt hinges 125x65x2.12 mm	10 Nos	10.00	78.00	78.00
0635	Iron screws 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				144.72
	Add for water charge @ 1%				1.45
	TOTAL				146.17
	Add for contractor's profit and overheads @ 15%				21.93
	Cost of 10 hinges				168.10
	Cost of 1 butt hinge				16.81
	Say				16.80

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :

9.55.2 100x58x1.90 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
0595	Butt hinges 100x58x1.9 mm	10 Nos	10.00	54.00	54.00
0637	Iron screws 40 mm	100 Nos	80.00	30.00	24.00
9999	Carriage of materials	L.S	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				112.72
	Add for water charge @ 1%				1.13
	TOTAL				113.85
	Add for contractor's profit and overheads @ 15%				17.08
	Cost of 10 hinges				130.93
	Cost of 1 butt hinge				13.09
	Say				13.10

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :

9.55.3 75x47x1.70 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
0596	Butt hinges 175x47x1.7 mm	10 Nos	10.00	34.00	34.00
0638	Iron screws 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				82.21
	Add for water charge @ 1 %				0.82
	TOTAL				83.03
	Add for contractor's profit and overheads @ 15%				12.45
	Cost of 10 hinges				95.48
	Cost of 1 butt hinge				9.55
	Say				9.55

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :

9.55.4 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
0597	Butt hinges 50x37x1.5 mm	10 Nos	10.00	28.00	28.00
0640	Iron screws 20 mm	100 Nos	40.00	15.00	6.00
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0112	Carpenter 2nd class	Day	0.08	141.60	11.33
	TOTAL				46.24

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charge @ 1%				0.46
	TOTAL				46.70
	Add for contractor's profit and overheads @ 15%				7.00
	Cost of 10 hinges				53.70
	Cost of 1 butt hinge				5.37
	Say				5.35

9.56 Providing and fixing IS : 1341 marked 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				
	Materials-				
8222	M.S. heavy weight but hinges 125x90x4.0mm IS: 1341 marked.	10 Nos	10.00	256.00	256.00
0635	Iron screws 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				322.72
	Add for water charge @ 1 %				3.23
	TOTAL				325.95
	Add for contractor's profit and overheads @ 15%				48.89
	Cost of 10 hinges				374.84
	Cost of 1 butt hinge				37.48
	Say				37.50

9.56 Providing and fixing IS : 1341 marked M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.2 100x75x3.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
8,223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos.	10.00	133.00	133.00
0637	Iron screws 40 mm	100 Nos	80.00	30.00	24.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				191.72
	Add for water charge @ 1%				1.92
	TOTAL				193.64
	Add for contractor's profit and overheads @ 15%				29.05
	Cost of 10 hinges				222.69
	Cost of 1 butt hinge				22.27
	Say				22.25

9.56 Providing and fixing IS : 1341 marked M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.3 75x60x3.10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
8,224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	10.00	67.00	67.00
0638	Iron screws 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				115.21
	Add for water charge @ 1 %				1.15
	TOTAL				116.36
	Add for contractor's profit and overheads @ 15%				17.45
	Cost of 10 hinges				133.81
	Cost of 1 butt hinge				13.38
	Say				13.40

9.56 Providing and fixing IS : 1341 marked M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.4 50x40x2.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS: 1341 marked	10 Nos	10.00	52.00	52.00
0640	Iron screws 20 mm	100 Nos	40.00	15.00	6.00
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0112	Carpenter 2nd class	Day	0.08	141.60	11.33
	TOTAL				70.24
	Add for water charge @ 1 %				0.70
	TOTAL				70.94
	Add for contractor's profit and overheads @ 15%				10.64
	Cost of 10 hinges				81.58
	Cost of 1 butt hinge				8.16
	Say				8.15

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.				
	Materials-				
0642	M.S. butt hinges (oxidised) 125x65x2.12 mm	10 Nos	10.00	92.00	92.00
0682	Iron screws (oxidised) 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				159.63
	Add for water charge @ 1 %				1.60
	TOTAL				161.23
	Add for contractor's profit and overheads @ 15%				24.18
	Cost of 10 nos.				185.41
	Cost of 1 no				18.54
	Say				18.55

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.2 100x58x1.90 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0643	M.S. butt hinges (oxidised) 100x58x1.9 mm	10 Nos	10.00	53.00	53.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				115.72
	Add for water charge @ 1 %				1.16
	TOTAL				116.88
	Add for contractor's profit and overheads @ 15%				17.53
	Cost of 10 nos.				134.41
	Cost of 1 no				13.44
	Say				13.45

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.3 75x47x1.70 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0644	M.S. butt hinges (oxidised) 75x47x1.7 mm	10 Nos	10.00	32.00	32.00
0684	Iron screws (oxidised) 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				80.21
	Add for water charge @ 1 %				0.80
	TOTAL				81.01
	Add for contractor's profit and overheads @ 15%				12.15
	Cost of 10 nos.				93.16
	Cost of 1 no				9.32
	Say				9.30

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.4 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0645	M.S. butt hinges (oxidised) 50x37x1.5 mm	10 Nos	10.00	27.00	27.00
0686	Iron screws (oxidised) 20 mm	100 Nos	40.00	15.00	6.00
9,999	Carriage of materials	L.S	0.91	1.00	0.91
	Labour-				
0112	Carpenter II class	Day	0.08	141.60	11.33
	TOTAL				45.24
	Add for water charge @ 1 %				0.45
	TOTAL				45.69
	Add for contractor's profit and overheads @ 15%				6.85
	Cost of 10 nos.				52.54
	Cost of 1 no				5.25
	Say				5.25

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.				
	Materials-				
0646	M.S. parliamentary hinges (oxidised) 150x125x27x2.8 mm	10 Nos	10.00	255.00	255.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				324.49
	Add for water charge @ 1 %				3.24
	TOTAL				327.73
	Add for contractor's profit and overheads @ 15%				49.16
	Cost of 10 nos.				376.89
	Cost of 1 no				37.69
	Say				37.70

9.58 Providing and fixing ISI marked oxidised M.S.pressed Parliamentary hinges with necessary screws etc. complete :

9.58.2 125x125x27x2.80 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0647	M.S. parliamentary hinges (oxidised) 125x125x27x2.8 mm	10 Nos	10.00	205.00	205.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				274.49
	Add for water charge @ 1 %				2.74
	TOTAL				277.23
	Add for contractor's profit and overheads @ 15%				41.58
	Cost of 10 nos.				318.81
	Cost of 1 no				31.88
	Say				31.90

9.58 Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete :

9.58.3 100x125x27x2.80 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0648	M.S. parliamentary hinges (oxidised) 100x125x27x2.8 mm	10 Nos	10.00	165.00	165.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				234.49
	Add for water charge @ 1 %				2.34
	TOTAL				236.83
	Add for contractor's profit and overheads @ 15%				35.52
	Cost of 10 nos.				272.35
	Cost of 1 no				27.24
	Say				27.25

9.58 Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete :

9.58.4 75x100x20x2.24 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0649	M.S. parliamentary hinges (oxidised) 75x100x20x2.24 mm	10 Nos	10.00	122.00	122.00
0684	Iron screws (oxidised) 30 mm	100 Nos	60.00	24.00	14.40
9,999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				177.89
	Add for water charge @ 1 %				1.78
	TOTAL				179.67
	Add for contractor's profit and overheads @ 15%				26.95
	Cost of 10 nos.				206.62
	Cost of 1 no				20.66
	Say				20.65

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.				
	Materials-				
0650	M.S. single acting spring hinges (oxidised) 150 mm	each	10.00	71.00	710.00
0682	Iron screws (oxidised) 50 mm	100 Nos	80. 00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				828.42
	Add for water charge @ 1 %				8.28
	TOTAL				836.70
	Add for contractor's profit and overheads @ 15%				125.50
	Cost of 10 nos.				962.20
	Cost of 1 no				96.22
	Say				96.20

9.59 Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :

9.59.2 125 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0651	M.S. single acting spring hinges (oxidised) 125 mm	each	10.00	66.00	660.00
0682	Iron screws (oxidised) 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				778.42
	Add for water charge @ 1%				7.78
	TOTAL				786.20
	Add for contractor's profit and overheads @ 15%				117.93
	Cost of 10 nos.				904.13
	Cost of 1 no				90.41
	Say				90.40

9.59 Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :

9.59.3 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0652	M.S. single acting spring hinges (oxidised) 100 mm	each	10.00	51.00	510.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				624.42
	Add for water charge @ 1 %				6.24
	TOTAL				630.66
	Add for contractor's profit and overheads @ 15%				94.60
	Cost of 10 nos.				725.26
	Cost of 1 no				72.53
	Say				72.55

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.				
	Materials-				
0653	M.S. double acting spring hinges (oxidised) 150 mm	each	10.00	73.00	730.00
0682	Iron screws (oxidised) 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				848.42
	Add for water charge @ 1%				8.48
	TOTAL				856.90
	Add for contractor's profit and overheads @ 15%				128.54
	Cost of 10 nos.				985.44
	Cost of 1 no				98.54
	Say				98.55

9.60 Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.

9.60.2 125 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0654	M.S. double acting spring hinges (oxidised) 125 mm	each	10.00	63.00	630.00
0682	Iron screws (oxidised) 50 mm	100 Nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				748.42
	Add for water charge @ 1 %				7.48
	TOTAL				755.90
	Add for contractor's profit and overheads @ 15%				113.38
	Cost of 10 nos.				869.28
	Cost of 1 no				86.93
	Say				86.95

9.60 Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.

9.60.3 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0655	M.S. double acting spring hinges (oxidised) 100 mm	each	10.00	47.00	470.00
0683	Iron screws (oxidised) 40 mm	100 Nos	80.00	35.00	28.00
9,999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.4	141.60	56.64
0114	Beldar	Day	0.2	135.25	27.05
	TOTAL				584.42
	Add for water charge @ 1 %				5.84
	TOTAL				590.26
	Add for contractor's profit and overheads @ 15%				88.54
	Cost of 10 nos.				678.80
	Cost of 1 no				67.88
	Say				67.90

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 meter				
	Materials-				
0656	M.S. piano hinges (oxidised) 35 mm wide	metre	1.00	24.00	24.00
0686	Iron screws (oxidised) 20 mm	100 Nos	30.00	15.00	4.50
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				62.31
	Add for water charge @ 1 %				0.62
	TOTAL				62.93
	Add for contractor's profit and overheads @ 15%				9.44
	Cost for 1 metre				72.37
	Say				72.35

9.61 Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.

9.61.2 Overall width 50 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 meter				
	Materials-				
7485	M.S. piano hinges (oxidised) 50 mm wide	metre	1.00	29.00	29.00
0686	Iron screws (oxidised) 20 mm	100 Nos	30.00	15.00	4.50
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				67.31
	Add for water charge @ 1 %				0.67
	TOTAL				67.98
	Add for contractor's profit and overheads @ 15%				10.20
	Cost for 1 metre				78.18
	Say				78.20

9.61 Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.

9.61.3 Overall width 65 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 meter				
	Materials-				
7486	M.S. piano hinges (oxidised) 65 mm wide	metre	1.00	34.00	34.00
0686	Iron screws (oxidised) 20 mm	100 Nos	30.00	15.00	4.50
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				72.31
	Add for water charge @ 1 %				0.72
	TOTAL				73.03
	Add for contractor's profit and overheads @ 15%				10.95
	Cost for 1 metre				83.98
	Say				84.00

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.				
	Materials-				
0660	M.S. 'sliding door bolts (oxidised) 300x16 mm	each	10.00	45.00	450.00
7040	Iron screws (oxidised) 35 mm	100 Nos	120.00	28.00	33.60
0641	Bolts and nuts 50x6 mm	each	40.00	4.00	160.00
9999	Carriage of materials & sundries	L.S.	6.37	1.00	6.37
	Labour-				
0112	Carpenter II class	Day	0.25	141.60	35.40
	TOTAL				685.37
	Add for water charge @ 1 %				6.85
	TOTAL				692.22
	Add for contractor's profit and overheads @ 15%				103.83
	Cost of 10 nos.				796.05
	Cost of 1 no.				79.61
	Say				79.60

9.62 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :

9.62.2 250x16 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0661	M.S. 'sliding door bolts (oxidised) 250x16 mm	each	10.00	37.00	370.00
7040	Iron screws (oxidised) 35 mm	100 Nos	100.00	28.00	28.00
0641	Bolts and nuts 50x6 mm	each	40.00	4.00	160.00
9999	Carriage of materials & sundries	L.S.	6.37	1.00	6.37
	Labour-				
0112	Carpenter II class	Day	0.25	141.60	35.40
	TOTAL				599.77
	Add for water charge @ 1 %				6.00
	TOTAL				605.77
	Add for contractor's profit and overheads @ 15%				90.87
	Cost of 10 nos.				696.64
	Cost of 1 no.				69.66
	Say				69.65

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.				
	Materials-				
0664	M.S. tower bolts (oxidised) 250x10 mm	each	10.00	25.00	250.00
0684	Iron screws (oxidised) 30 mm	100 Nos	100.00	24.00	24.00
9999	Carriage of material	L.S.	3.64	1.00	3.64
	Labour-				
0112	Carpenter II class	Day	0.10	141.60	14.16
	TOTAL				291.80
	Add for water charge @ 1 %				2.92
	TOTAL				294.72
	Add for contractor's profit and overheads 15%				44.21
	Cost of 10 nos.				338.93
	Cost of 1 no.				33.89
	Say				33.90

9.63 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :

9.63.2 200x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0665	M.S. tower bolts (oxidised) 200x10 mm	each	10.00	21.00	210.00
0684	Iron screws (oxidised) 30 mm	100 Nos	80.00	24.00	19.20
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.10	141.60	14.16
	TOTAL				246.09
	Add for water charge @ 1%				2.46

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				248.55
	Add for contractor's profit and overheads @ 15%				37.28
	Cost of 10 nos.				285.83
	Cost of 1 no.				28.58
	Say				28.60

9.63 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :

9.63.3 150x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0666	M.S. tower bolts (oxidised) 150x10 mm	each	10.00	17.00	170.00
0684	Iron screws (oxidised) 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.10	141.60	14.16
	TOTAL				201.29
	Add for water charge @ 1%				2.01
	TOTAL				203.30
	Add for contractor's profit and overheads @ 15%				30.50
	Cost of 10 nos.				233.80
	Cost of 1 no.				23.38
	Say				23.40

9.63 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :

9.63.4 100x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0667	M.S. tower bolts (oxidised) 100 x 10 mm	each	10.00	12.00	120.00
0684	Iron screws (oxidised) 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.08	141.60	11.33
	TOTAL				148.46
	Add for water charge @ 1 %				1.48
	TOTAL				149.94
	Add for contractor's profit and overheads @ 15%				22.49
	Cost of 10 nos.				172.43
	Cost of 1 no.				17.24
	Say				17.25

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.				
	Materials-				
2449	M.S. pull bolts (oxidised) of size 85x42 mm with bolts and nuts complete	each	10.00	27.00	270.00
9999	Carriage of materials & sundries	L.S.	6.37	1.00	6.37
	Labour-				
0112	Carpenter II class	Day	0.25	141.60	35.40
	TOTAL				311.77
	Add for water charge @ 1 %				3.12
	TOTAL				314.89
	Add for contractor's profit and overheads @ 15%				47.23
	Cost of 10 nos.				362.12
	Cost of 1 no.				36.21
	Say				36.20

9.65 Providing and fixing ISI marked oxidised M.S. 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.				
	Materials-				
0662	M.S. door latches (oxidised) 300x20x6 mm	each	10.00	25.00	250.00
0685	Iron screws (oxidised) 25 mm	100 Nos	90.00	16.00	14.40
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0112	Carpenter II class	Day	0.12	141.60	16.99
	TOTAL				285.03
	Add for water charge @ 1 %				2.85
	TOTAL				287.88
	Add for contractor's profit and overheads @ 15%				43.18
	Cost of 10 nos.				331.06
	Cost of 1 no.				33.11
	Say				33.10

9.65 Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :

9.65.2 250x20x6 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0663	M.S. door latches (oxidised) 250x20x6 mm	each	10.00	25.00	250.00
0685	Iron screws (oxidised) 25 mm	100 Nos	90.00	16.00	14.40
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0112	Carpenter II class	Day	0.12	141.60	16.99
	TOTAL				285.03

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charge @ 1 %				2.85
	TOTAL				287.88
	Add for contractor's profit and overheads @ 15%				43.18
	Cost of 10 nos.				331.06
	Cost of 1 no.				33.11
	Say				33.10

9.66 Providing 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.				
	Materials-				
0668	M.S. handle (oxidised) 125 mm	each	10.00	7.00	70.00
0685	Iron screws (oxidised) 25 mm	100 Nos	40.00	16.00	6.40
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter II class	Day	0.06	141.60	8.50
	TOTAL				87.63
	Add for water charge @ 1 %				0.88
	TOTAL				88.51
	Add for contractor's profit and overheads @ 15%				13.28
	Cost of 10 nos.				101.79
	Cost of 1 no.				10.18
	Say				10.20

9.66 Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete:

9.66.2 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0669	M.S. handle (oxidised) 100 mm	each	10.00	5.00	50.00
0685	Iron screws (oxidised) 25 mm	100 Nos	40.00	16.00	6.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.06	141.60	8.50
	TOTAL				66.72
	Add for water charge @ 1 %				0.67
	TOTAL				67.39
	Add for contractor's profit and overheads @ 15%				10.11
	Cost of 10 nos.				77.50
	Cost of 1 no.				7.75
	Say				7.75

9.66 Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :

9.66.3 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0670	M.S. handle (oxidised) 75 mm	each	10.00	3.00	30.00
0685	Iron screws (oxidised) 25 mm	100 Nos	40.00	16.00	6.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.06	141.60	8.50
	TOTAL				46.72
	Add for water charge @ 1%				0.47
	TOTAL				47.19
	Add for contractor's profit and overheads @ 15%				7.08
	Cost of 10 nos.				54.27
	Cost of 1 no.				5.43
	Say				5.45

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.				
	Materials-				
0679	M.S. hasp and staple (safety type) (oxidised) 150 mm	10 Nos	10.00	79.00	79.00
0685	Iron screws (oxidised) 25 mm	100 Nos	80.00	16.00	12.80
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.08	141.60	11.33
	TOTAL				104.95
	Add for water charge @ 1 %				1.05
	TOTAL				106.00
	Add for contractor's profit and overheads @ 15%				15.90
	Cost of 10 nos.				121.90
	Cost of 1 no.				12.19
	Say				12.20

9.67 Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :

9.67.2 115 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				

Code	Description	Unit	Quantity	Rate	Amount
0680	M.S. hasp and staple (safety type) (oxidised) 115 mm	10 Nos	10.00	70.00	70.00
0685	Iron screws (oxidised) 25 mm	100 Nos	70.00	16.00	11.20
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.08	141.60	11.33
	TOTAL				94.35
	Add for water charge @ 1 %				0.94
	TOTAL				95.29
	Add for contractor's profit and overheads @ 15%				14.29
	Cost of 10 nos.				109.58
	Cost of 1 no.				10.96
	Say				10.95

9.67 Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :

9.67.3 90 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0681	M.S. hasp and staple (safety type) (oxidised) 90 mm	10 Nos	10.00	52.00	52.00
0685	Iron screws (oxidised) 25 mm	100 Nos	70.00	16.00	11.20
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter II class	Day	0.08	141.60	11.33
	TOTAL				76.35
	Add for water charge @ 1%				0.76
	TOTAL				77.11
	Add for contractor's profit and overheads @ 15%				11.57
	Cost of 10 nos.				88.68
	Cost of 1 no.				8.87
	Say				8.85

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.				
	Materials-				
7063	Oxidised M.S. casement stay 300 mm	each	10.00	14.00	140.00
0684	Screws 30 mm	100 Nos	40.00	24.00	9.60
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter II class	Day	0.1	141.60	14.16
	TOTAL				164.67
	Add for water charge @ 1 %				1.65
	TOTAL				166.32
	Add for contractor's profit and overheads @ 15%				24.95
	Cost of 10 nos.				191.27
	Cost of 1 no.				19.13
	Say				19.15

9.68 Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.

9.68.2 250 mm weighing not less than 150 gms.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
7064	Oxidised M.S. casement stay 250 mm	each	10.00	12.00	120.00
0685	Screws 25 mm	100 Nos	40.00	16.00	6.40
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0112	Carpenter II class	Day	0.1	141.60	14.16
	TOTAL				141.47
	Add for water charge @ 1 %				1.41
	TOTAL				142.88
	Add for contractor's profit and overheads @ 15%				21.43
	Cost of 10 nos.				164.31
	Cost of 1 no.				16.43
	Say				16.45

9.68 Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.

9.68.3 200 mm weighing not less than 120 gms.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
7065	Oxidised M.S. casement stay 200 mm	each	10.00	11.00	110.00
0685	Screws 25 mm	100 Nos	40.00	16.00	6.40
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0112	Carpenter II class	Day	0.1	141.60	14.16
	TOTAL				131.47
	Add for water charge @ 1 %				1.31
	TOTAL				132.78

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15%				19.92
	Cost of 10 nos.				152.70
	Cost of 1 no.				15.27
	Say				15.25

9.69 Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors. (Weighing not less than 450 gms.)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
7184	Oxidised M.S. safety chain	each	10.00	43.00	430.00
0685	Iron screws 25 mm	100 Nos	60.00	16.00	9.60
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0112	Carpenter II class	Day	0.10	141.60	14.16
	TOTAL				454.67
	Add for water charge @ 1 %				4.55
	TOTAL				459.22
	Add for contractor's profit and overheads @ 15%				68.88
	Cost of 10 nos.				528.10
	Cost of 1 no.				52.81
	Say				52.80

9.70 Providing and fixing IS : 12817 marked stainlesssteel 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				
	Materials-				
8215	S.S. butt hinges 125x64x 1.9 mm	10 Nos	10.00	200.00	200.00
8210	Stainless steel screws 50 mm	100 Nos	80.00	213.00	170.40
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.00	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				405.12
	Add for water charge @ 1%				4.05
	TOTAL				409.17
	Add for contractor's profit and overheads @ 15%				61.38
	Cost of 10 hinges				470.55
	Cost of 1 butt hinge				47.06
	Say				47.05

9.70 : Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :

9.70.2 : 100X58X1.90 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos				
	Materials-				
8216	S.S. butt hinges 100x58x1.9 mm	10 Nos	10.00	143.00	143.00
8211	Stainless steel screws 40 mm	100 Nos	80.0	157.00	125.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				303.32
	Add for water charge @ 1 %				3.03
	TOTAL				306.35
	Add for contractor's profit and overheads @ 15%				45.95
	Cost of 10 hinges				352.30
	Cost of 1 butt hinge				35.23
	Say				35.25

9.70 Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :

9.70.3 75x47x1.80 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos				
	Materials-				
8217	S.S. butt hinges 75x47x1.8 mm	10 Nos	10.00	112.00	112.00
8212	Stainless steel screws 30 mm	100 Nos	60.00	98.00	58.80
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				204.61
	Add for water charge @ 1 %				2.05
	TOTAL				206.66
	Add for contractor's profit and overheads @ 15%				31.00
	Cost of 10 hinges				237.66
	Cost of 1 butt hinge				23.77
	Say				23.75

9.70 : Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :

9.70.4 : 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos				
	Materials-				
8218	S.S. butt hinges 50x37x1.5 mm	10 Nos	10.00	90.00	90.00
8214	Stainless steel screws 20 mm	100 Nos	40.00	63.00	25.20
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				41.60

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter 2nd class	Day	0.08	141.60	11.33
	TOTAL				127.44
	Add for water charge @ 1%				1.27
	TOTAL				128.71
	Add for contractor's profit and overheads @ 15%				19.31
					148.02
	Cost of 10 hinges				14.80
	Cost of 1 butt hinge				14.80
	Say				14.80

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				
	Materials-				
8219	S.S. butt hinges 125x64x2.5 mm	10 Nos	10.00	261.00	261.00
8210	Stainless steel screws 50 mm	100 Nos	80.00	213.00	170.40
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				466.12
	Add for water charge @ 1%				4.66
	TOTAL				470.78
	Add for contractor's profit and overheads @ 15%				70.62
	Cost of 10 hinges				541.40
	Cost of 1 butt hinge				54.14
	Say				54.15

9.71 : Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:

9.71.2 : 100x60x2.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos				
	Material				
8220	S.S. butt hinges 100x60x2.5 mm	10 Nos	10.00	185.00	185.00
8211	Stainless steel screws 40 mm	100 Nos	80.00	157.00	125.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				345.32
	Add for water charge @ 1 %				3.45
	TOTAL				348.77
	Add for contractor's profit and overheads @ 15%				52.32
	Cost of 10 hinges				401.09
	Cost of 1 butt hinge				40.11
	Say				40.10

9.71: Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :

9.71.3 ; 75x50x2.50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos				
	Materials-				
8221	S.S. butt hinges 75x50x2.5 mm	10 Nos	10.00	155.00	155.00
8212	Stainless steel screws 30 mm	100 Nos	60.00	98.00	58.80
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				247.61
	Add for water charge @ 1%				2.48
	TOTAL				250.09
	Add for contractor's profit and overheads @ 15%				37.51
	Cost of 10 hinges				287.60
	Cost of 1 butt hinge				28.76
	Say				28.75

9.72 : Providing and fixing bright finished brass butt hinges with necessaryscrews etc. complete :

9.72.1: 125x85x5.5 mm (heavy type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0382	Brass butt hinges 125x85x5.5 mm	10 Nos	10.00	1 500.00	1 500.00
0449	Brass screws 50 mm	100 Nos	100.00	107.00	107.00
9999	Carriage of material	L.S.	3.64	1.00	3.64
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				1 645.37
	Add for water charge @ 1 %				16.45
	TOTAL				1 661.82
	Add for contractor's profit and overheads @ 15%				249.27
	Cost for 10 nos.				1 911.09
	Cost of 1 no.				191.11
	Say				191.10

9.72 : Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :

9.72.2 : 125x70x4 mm (ordinary type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0378	Brass butt hinges 125x70x4 mm	10 Nos	10.00	450.00	450.00
0449	Brass screws 50 mm	100 Nos	100.00	107.00	107.00
9999	Carriage of material	L.S.	3.64	1.00	3.64
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				595.37
	Add for water charge @ 1%				5.95
	TOTAL				601.32
	Add for contractor's profit and overheads @ 15%				90.20
	Cost for 10 nos.				691.52
	Cost of 1 no.				69.15
	Say				69.15

9.72 : Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :

9.72.3 : 100x85x5.5 mm (heavy type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0383	Brass butt hinges 100x85x5.5 mm	10 Nos	10.00	1300.00	1300.00
0450	Brass screws 40 mm	100 Nos	80.00	96.00	76.80
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				1414.26
	Add for water charge @ 1 %				14.14
	TOTAL				1428.40
	Add for contractor's profit and overheads @ 15%				214.26
	Cost for 10 nos.				1642.66
	Cost of 1 no.				164.27
	Say				164.25

9.72 : Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :

9.72.4 : 100x70x4 mm (ordinary type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0379	Brass butt hinges 100x70x4 mm	10 Nos	10.00	300.00	300.00
0450	Brass screws 40 mm	100 Nos	80.00	96.00	76.80
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				414.26
	Add for water charge @ 1%				4.14
	TOTAL				418.40
	Add for contractor's profit and overheads @ 15%				62.76
	Cost for 10 nos.				481.16
	Cost of 1 no.				48.12
	Say				48.10

9.72 : Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :

9.72.5 : 75x65x4 mm (heavy type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0384	Brass butt hinges 75x65x4 mm	10 Nos	10.00	450.00	450.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				539.06
	Add for water charge @ 1%				5.39
	TOTAL				544.45
	Add for contractor's profit and overheads @ 15%				81.67
	Cost for 10 nos.				626.12
	Cost of 1 no.				62.61
	Say				62.60

9.72 : Providing and fixing bright finished brass butthinges with necessary screws etc. complete :

9.72.6 : 75x40x2.5 mm (ordinary type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0380	Brass butt hinges 75x40x2.5 mm	10 Nos	10.00	160.00	160.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.10	135.25	13.52
	TOTAL				249.06
	Add for water charge @ 1%				2.49
	TOTAL				251.55
	Add for contractor's profit and overheads @ 15%				37.73
	Cost for 10 nos.				289.28
	Cost of 1 no.				28.93
	Say				28.95

9.72 : Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :

9.72.7 : 50x40x2.5 mm (ordinary type)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0381	Brass butt hinges 50x40x2.5 mm	10 Nos	10.00	90.00	90.00
0453	Brass screws 20 mm	100 Nos	40.00	53.00	21.20
9999	Carriage of material	L.S.	1.82	1.00	1.82
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1st class	Day	0.08	151.50	12.12
	TOTAL				125.14
	Add for water charge @ 1 %				1.25
	TOTAL				126.39
	Add for contractor's profit and overheads @ 15%				18.96
	Cost for 10 nos.				145.35
	Cost of 1 no.				14.54
	Say				14.55

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.				
	Materials-				
0385	Parliamentary hingesl50xl25x27x5 mm	10 Nos	10.00	1650.00	1650.00
0450	Brass screws 40 mm	100 Nos	80.00	96.00	76.80
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				1769.68
	Add for water charge @ 1%				17.70
	TOTAL				1787.38
	Add for contractor's profit and overheads @ 15%				268.11
	Cost of 10 hinges				2055.49
	Cost of 1 hinge				205.55
	Say				205.55

9.73 : Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete :

9.73.2 : 125x125x27x5 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0386	Parliamentary hinges 125x125x27x5 mm	10 Nos	10.00	1450.00	1450.00
0450	Brass screws 40 mm	100 Nos	80.00	96.00	76.80
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				1569.68
	Add for water charge @ 1%				15.70
	TOTAL				1585.38
	Add for contractor's profit and overheads @ 15%				237.81
	Cost of 10 hinges				1823.19
	Cost of 1 hinge				182.32
	Say				182.30

9.73 : Providing and fixing bright finished brass parliamentary hingeswith necessary screws etc. complete :

9.73.3 : 100x125x27x5 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0387	Parliamentary hinges 100x125x27x5 mm	10 Nos	1.00	1175.00	1175.00
0450	Brass screws 40 mm	100 Nos	80.00	96.00	76.80
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				1294.68
	Add for water charge @ 1 %				12.95
	TOTAL				1307.63
	Add for contractor's profit and overheads @ 15%				196.14
	Cost of 10 hinges				1503.77
	Cost of 1 hinge				150.38
	Say				150.40

9.73 : Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete :

9.73.4 : 75x100x20x3.2 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0388	Parliamentary hinges 75x100x20x3.2 mm	10 Nos	10.00	888.00	888.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.14	135.25	18.94
	TOTAL				982.48
	Add for water charge @ 1 %				9.82
	TOTAL				992.30
	Add for contractor's profit and overheads @ 15%				148.84
	Cost of 10 hinges				1141.14
	Cost of 1 hinge				114.11
	Say				114.10

9.74 : Providing and fixing bright finished brass towerbolts (barrel type)with necessary screws etc. complete :

9.74.1 : 250x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0400	Brass barrel bolts 250x 10 mm	each	10.00	123.00	1230.00
0451	Brass screws 30 mm	100 Nos	100.00	86.00	86.00
9999	Carriage of materials	L.S.	4.55	1.00	4.55
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1st class	Day	0.10	151.50	15.15
	TOTAL				1335.70
	Add for water charge @ 1%				13.36
	TOTAL				1349.06
	Add for contractor's profit and overheads@ 15%				202.36
	Cost of 10 tower bolts				1551.42
	Cost of 1 tower bolt				155.14
	Say				155.15

9.74 : Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :

9.74.2 : 200x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0401	Brass barrel bolts 200x10 mm	each	10.00	100.00	1000.00
0451	Brass screws 30 mm	100 Nos	80.00	86.00	68.80
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				1086.68
	Add for water charge @ 1 %				10.87
	TOTAL				1097.55
	Add for contractor's profit and overheads @ 15%				164.63
	Cost of 10 tower bolts				1262.18
	Cost of 1 tower bolt				126.22
	Say				126.20

9.74 : Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :

9.74.3 : 150x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0402	Brass barrel bolts 150x10 mm	each	10.00	75.00	750.00
0451	Brass screws 30 mm	100 Nos	80.00	86.00	68.80
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				836.68
	Add for water charge @ 1 %				8.37
	TOTAL				845.05
	Add for contractor's profit and overheads @ 15%				126.76
	Cost of 10 tower bolts				971.81
	Cost of 1 tower bolt				97.18
	Say				97.20

9.74 : Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :
9.74.4: 100x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0403	Brass barrel bolts 100x10 mm	each	10.00	51.00	510.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				579.48
	Add for water charge @ 1%				5.79
	TOTAL				585.27
	Add for contractor's profit and overheads @ 15%				87.79
	Cost of 10 tower bolts				673.06
	Cost of 1 tower bolt				67.31
	Say				67.30

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.				
	Materials-				
0411	Brass door latch 300x16x5 mm	each	10.00	85.00	850.00
0452	Brass screws 25 mm	100 Nos	90.00	76.00	68.40
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0111	Carpenter 1 st class	Day	0.12	151.50	18.18
	TOTAL				940.22
	Add for water charge @ 1 %				9.40
	TOTAL				949.62
	Add for contractor's profit and overheads @ 15%				142.44
	Cost of 10 nos.				1092.06
	Cost of 1 no.				109.21
	Say				109.20

9.75 : Providing and fixing bright finished brass door latch with necessary screws etc. complete :
9.75.2 : 250x16x5 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0412	Brass door latch 250x16x5 mm	each	10.00	82.00	820.00
0452	Brass screws 25 mm	100 Nos	90.00	76.00	68.40
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1st class	Day	0.12	151.50	18.18
	TOTAL				910.22
	Add for water charge @ 1 %				9.10
	TOTAL				919.32
	Add for contractor's profit and overheads @ 15%				137.90
	Cost of 10 nos.				1057.22
	Cost of 1 no.				105.72
	Say				105.70

9.76 : Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
0413	100 mm mortice latch & lock with 6 levers	each	1.00	257.00	257.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.00	3.64
	TOTAL				286.40
	Add for water charge @ 1 %				2.86
	TOTAL				289.26
	Add for contractor's profit and overheads @ 15%				43.39
	Cost of 1 mortice latch and lock				332.65
	Say				332.65

9.77 : Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
0414	100 mm mortice latch	each	1.00	235.00	235.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.00	3.64
	TOTAL				264.40
	Add for water charge @ 1 %				2.64
	TOTAL				267.04
	Add for contractor's profit and overheads @ 15%				40.06
	Cost of 1 mortice latch and lock				307.10
	Say				307.10

9.78 : Providing and fixing bright finished brass night latch including necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
0438	Brass night latch	each	1.00	338.00	338.00
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.00	3.64
	TOTAL				367.40
	Add for water charge @ 1 %				3.67
	TOTAL				371.07
	Add for contractor's profit and overheads @ 15%				55.66
	Cost of 1 mortice latch and lock				426.73
	Say				426.75

9.79 : Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

9.79.1 : 40 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2451	40 mm lock	each	1.00	36.00	36.00
	Labour-				
0111	Carpenter 1 st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				65.40
	Add for water charge @ 1 %				0.65
	TOTAL				66.05
	Add for contractor's profit and overheads @ 15%				9.91
	Cost of 1 mortice latch and lock				75.96
	Say				75.95

9.79 : Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

9.79.2 : 50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2452	50 mm lock	each	1.00	43.00	43.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				72.40
	Add for water charge @ 1 %				0.72
	TOTAL				73.12
	Add for contractor's profit and overheads @ 15%				10.97
	Cost of 1 mortice latch and lock				84.09
	Say				84.10

9.79 : Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

9.79.3 : 65 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2453	65 mm lock	each	1.00	55.00	55.00
	Labour-				
0111	Carpenter 1 st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				84.40
	Add for water charge @ 1%				0.84
	TOTAL				85.24
	Add for contractor's profit and overheads @ 15%				12.79
	Cost of 1 mortice latch and lock				98.03
	Say				98.05

9.79 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

9.79.4 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2454	75 mm lock	each	1.00	70.00	70.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				99.40
	Add for water charge @ 1 %				0.99
	TOTAL				100.39
	Add for contractor's profit and overheads @ 15%				15.06
	Cost of 1 mortice latch and lock				115.45
	Say				115.45

9.80 : Providing and fixing 50 mm bright finished brass cup board or wardrobe knob with necessary screws (best make of approved quality)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0447	Cupboard knob	each	10.00	18.00	180.00
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
	TOTAL				203.94
	Add for water charge @ 1%				2.04
	TOTAL				205.98
	Add for contractor's profit and overheads @ 15%				30.90
	Cost of 10 cupboard knob				236.88
	Cost of 1 cupboard knob				23.69
	Say				23.70

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.				
	Materials-				
0408	Bright finished brass handles 125 mm	each	10.00	85.00	850.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.06	151.50	9.09
	TOTAL				892.22
	Add for water charge @ 1 %				8.92
	TOTAL				901.14
	Add for contractor's profit and overheads @ 15%				135.17
	Cost of 10 handles				1 036.31
	Cost of 1 handle				103.63
	Say				103.65

9.81 : Providing and fixing bright finished brass handles with screws etc. complete :
9.81.2 : 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0409	Bright finished brass handles 100 mm	each	10.00	75.00	750.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1st class	Day	0.06	151.50	9.09
	TOTAL				790.40
	Add for water charge @ 1 %				7.90
	TOTAL				798.30
	Add for contractor's profit and overheads @ 15%				119.74
	Cost of 10 handles				918.04
	Cost of 1 handle				91.80
	Say				91.80

9.81 : Providing and fixing bright finished brass handles with screws etc. complete :
9.81.3 : 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0410	Bright finished brass handles 75 mm	each	10.00	55.00	550.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.06	151.50	9.09
	TOTAL				590.40
	Add for water charge @ 1 %				5.90
	TOTAL				596.30
	Add for contractor's profit and overheads @ 15%				89.44
	Cost of 10 handles				685.74
	Cost of 1 handle				68.57
	Say				68.55

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 stopper				
	Materials-				
2455	Bright finished brass floor door stopper	each	10.00	46.00	460.00
0452	Brass screws 25 mm	100 Nos	20.00	76.00	15.20
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.03	151.50	4.54
	TOTAL				482.47
	Add for water charge @ 1%				4.82
	TOTAL				487.29
	Add for contractor's profit and overheads @ 15%				73.09
	Cost of 10 floor door stoppers				560.38
	Cost of 1 floor door stopper				56.04
	Say				56.05

9.83 : Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
2456	Hydraulic door closer with necessary accessories	each	10.00	506.00	5060.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of material	L.S.	3.64	1.00	3.64
	Labour-				
0112	Carpenter 2nd class	Day	1.00	141.60	141.60
	TOTAL				5256.84
	Add for water charge @ 1 %				52.57
	TOTAL				5309.41
	Add for contractor's profit and overheads @ 15%				796.41
	Cost of 10 floor door closers				6105.82
	Cost of 1 floor door closer				610.58
	Say				610.60

9.84 : Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
7060	Hydraulic door closer	each	10.00	765.00	7650.00
0451	Brass screws 30 mm	100 Nos	60.00	86.00	51.60
9999	Carriage of material	L.S.	1.00	1.04	1.04
	Labour-				
0112	Carpenter 2nd class	Day	1.00	141.60	141.60
	TOTAL				7844.24

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charge @ 1%				78.44
	TOTAL				7922.68
	Add for contractor's profit and overheads @ 15%				1188.40
	Cost of 10 floor door closers				9111.08
	Cost of 1 floor door closer				911.11
	Say				911.10

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.				
	Materials-				
0423	Brass casement window fastner	each	10.00	26.00	260.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				306.46
	Add for water charge @ 1 %				3.06
	TOTAL				309.52
	Add for contractor's profit and overheads @ 15%				46.43
	Cost of 10 floor window fastners				355.95
	Cost of 1 floor window fastner				35.60
	Say				35.60

9.86: Providing and fixing bright finished brasscasement 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.				
	Materials-				
0424	Brass casement stayes 300 mm	each	10.00	66.00	660.00
0451	Brass screws 30 mm	100 Nos	40.00	86.00	34.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				710.46
	Add for water charge @ 1%				7.10
	TOTAL				717.56
	Add for contractor's profit and overheads @ 15%				107.63
	Cost of 10 casement stayes				825.19
	Cost of 1 casement staye				82.52
	Say				82.50

9.86 : Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :

9.86.2 : 250 mm weighing not less than 280 gms

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0425	Brass casement stayes 250 mm	each	10.00	55.00	550.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				596.46
	Add for water charge @ 1 %				5.96
	TOTAL				602.42
	Add for contractor's profit and overheads @ 15%				90.36
	Cost of 10 casement stayes				692.78
	Cost of 1 casement staye				69.28
	Say				69.30

9.86 : Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :

9.86.3: 200 mm weighing not less than 240 gms

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0426	Brass casement stayes 200 mm	each	10.00	46.00	460.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9,999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				506.46
	Add for water charge @ 1 %				5.06
	TOTAL				511.52
	Add for contractor's profit and overheads @ 15%				76.73
	Cost of 10 casement stayes				588.25
	Cost of 1 casement staye				58.83
	Say				58.80

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.				
	Materials-				
0431	Brass Safety hasps & staples 150 mm	10 Nos	10.00	458.00	458.00
0452	Brass screws 25 mm	100 Nos	80.00	76.00	60.80
9999	Carriage of material	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1st class	Day	0.08	151.50	12.12
	TOTAL				532.74

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charge @ 1%				5.33
	TOTAL				538.07
	Add for contractor's profit and overheads @ 15%				80.71
	Cost of 10 hasps and staples				618.78
	Cost of 1 hasps and staple				61.88
	Say				61.90

9.87 : Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:
9.87.2 : 115 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0432	Brass Safety hasps & staples 115 mm	10 Nos	10.00	378.00	378.00
0453	Brass screws 20 mm	100 Nos	70.00	53.00	37.10
9999	Carriage of material	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1st class	Day	0.08	151.50	12.12
	TOTAL				429.04
	Add for water charge @ 1%				4.29
	TOTAL				433.33
	Add for contractor's profit and overheads @ 15%				65.00
	Cost of 10 hasps and staples				498.33
	Cost of 1 hasps and staple				49.83
	Say				49.85

9.87 : Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:
9.87.3: 90 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0433	Brass Safety hasps & staples 90 mm	10 Nos	10.00	300.00	300.00
0453	Brass screws 20 mm	100 Nos	70.00	53.00	37.10
9999	Carriage of material	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1 st class	Day	0.08	151.50	12.12
	TOTAL				351.04
	Add for water charge @ 1 %				3.51
	TOTAL				354.55
	Add for contractor's profit and overheads @ 15%				53.18
	Cost of 10 hasps and staples				407.73
	Cost of 1 hasps and staple				40.77
	Say				40.75

9.88 : Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
0558	100 mm mortice latch & lock with 6 levers	each	1.00	323.00	323.00
	Labour-				
0111	Carpenter 1 st class	Day	0.17	151.50	25.76
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.00	3.64
	TOTAL				352.40
	Add for water charge @ 1%				3.52
	TOTAL				355.92
	Add for contractor's profit and overheads @ 15%				53.39
	Cost of 1 mortice latch and lock				409.31
	Say				409.30

9.89 : Providing and fixing chromium plated brass night latch including necessary screws etc. complete (Best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
0583	Brass night latch	each	1.00	383.00	383.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.00	3.64
	TOTAL				412.40
	Add for water charge @ 1 %				4.12
	TOTAL				416.52
	Add for contractor's profit and overheads @ 15%				62.48
	Cost of 1 mortice latch and lock				479.00
	Say				479.00

9.90 : Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

9.90.1: Size 40 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2468	40 mm lock	each	1.00	38.00	38.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				67.40
	Add for water charge @ 1 %				0.67
	TOTAL				68.07
	Add for contractor's profit and overheads @ 15%				10.21
	Cost of 1 mortice latch and lock				78.28
	Say				78.30

9.90 : Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

9.90.2: Size 50 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	Materials-				
2469	50 mm lock	each	1.00	53.00	53.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				82.40
	Add for water charge @ 1 %				0.82
	TOTAL				83.22
	Add for contractor's profit and overheads @ 15%				12.48
	Cost of 1 mortice latch and lock				95.70
	Say				95.70

9.90: Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

9.90.3: Size 65 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 no.				
	Materials-				
2470	65 mm lock	each	1.00	64.00	64.00
	Labour-				
0111	Carpenter 1 st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				93.40
	Add for water charge @ 1 %				0.93
	TOTAL				94.33
	Add for contractor's profit and overheads @ 15%				14.15
	Cost of 1 mortice latch and lock				108.48
	Say				108.50

9.90 : Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

9.90.4 : Size 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one				
	Materials-				
2471	75 mm lock	each	1.00	75.00	75.00
	Labour-				
0111	Carpenter 1st class	Day	0.17	151.50	25.76
9999	Sundries & screws	L.S.	3.64	1.00	3.64
	TOTAL				104.40
	Add for water charge @ 1 %				1.04

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				105.44
	Add for contractor's profit and overheads @ 15%				15.82
	Cost of 1 mortice latch and lock				121.26
	Say				121.25

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.				
	Materials-				
0584	Cupboard knob	each	10.00	25.00	250.00
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
	TOTAL				273.94
	Add for water charge @ 1 %				2.74
	TOTAL				276.68
	Add for contractor's profit and overheads @ 15%				41.50
	Cost of 10 cupboard knob				318.18
	Cost of 1 cupboard knob				31.82
	Say				31.80

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.				
	Materials-				
0555	Chromium plated brass handles 125 mm	each	10.00	92.00	920.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.06	151.50	9.09
	TOTAL				962.22
	Add for water charge @ 1 %				9.62
	TOTAL				971.84
	Add for contractor's profit and overheads @ 15%				145.78
	Cost of 10 handles				1 117.62
	Cost of 1 handle				111.76
	Say				111.75

9.92 : Providing and fixing chromium plated brass handles with necessary screws etc. complete:
9.92.2 : 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0556	Chromium plated brass handles 100 mm	each	10.00	79.00	790.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.06	151.50	9.09
	TOTAL				830.40
	Add for water charge @ 1%				8.30
	TOTAL				838.70
	Add for contractor's profit and overheads @ 15%				125.80
	Cost of 10 handles				964.50
	Cost of 1 handle				96.45
	Say				96.45

9.92 : Providing and fixing chromium plated brass handles with necessary screws etc. complete:

9.92.3 : 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0557	Chromium plated brass handles 75 mm	each	10.00	68.00	680.00
0452	Brass screws 25 mm	100 Nos	40.00	76.00	30.40
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1st class	Day	0.06	151.50	9.09
	TOTAL				720.40
	Add for water charge @ 1%				7.20
	TOTAL				727.60
	Add for contractor's profit and overheads @ 15%				109.14
	Cost of 10 handles				836.74
	Cost of 1 handle				83.67
	Say				83.65

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.				
	Materials-				
0568	C.P. brass window fastner	each	10.00	55.00	550.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1st class	Day	0.10	151.50	15.15
	TOTAL				599.26
	Add for water charge @ 1 %				5.99
	TOTAL				605.25
	Add for contractor's profit and overheads @ 15%				90.79
	Cost of 10 window fasteners				696.04
	Cost of 1 window fastener				69.60
	Say				69.60

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 s-				
0569	C.P. brass casement stays 300 mm	each	10.00	73.00	730.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				779.26
	Add for water charge @ 1 %				7.79
	TOTAL				787.05
	Add for contractor's profit and overheads @ 15%				118.06
	Cost of 10 window fasteners				905.11
	Cost of 1 window fastener				90.51
	Say				90.50

9.94 : Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :
9.94.2 : 250 mm weighing not less than 280 gms

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0570	C.P. brass casement stays 250 mm	each	10.00	67.00	670.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1st class	Day	0.10	151.50	15.15
	TOTAL				719.26
	Add for water charge @ 1 %				7.19
	TOTAL				726.45
	Add for contractor's profit and overheads @ 15%				108.97
	Cost of 10 window fasteners				835.42
	Cost of 1 window fastener				83.54
	Say				83.55

9.94 Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :
9.94.3 200 mm weighing not less than 240 gms

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0571	C.P. brass casement stays 200 mm	each	10.00	56.00	560.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of material	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1st class	Day	0.10	151.50	15.15
	TOTAL				609.26

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charge @ 1 %				6.09
	TOTAL				615.35
	Add for contractor's profit and overheads @ 15%				92.30
	Cost of 10 window fasteners				707.65
	Cost of 1 window fastener				70.77
	Say				70.75

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: 125x75x4 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0687	Aluminium butt hinges 125x75x4.00 mm	10 Nos	10.00	478.00	478.00
0585	C.P.brass screws 50 mm	100 Nos	100.00	123.00	123.00
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				638.02
	Add for water charge @ 1 %				6.38
	TOTAL				644.40
	Add for contractor's profit and overheads @ 15%				96.66
	Cost of 10 nos.				741.06
	Cost of 1 no.				74.11
	Say				74.10

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:

9.95.2 : 125x63x4 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0688	Aluminium butt hinges 125x63x4.00 mm	10 Nos	10.00	447.00	447.00
0585	C.P.brass screws 50 mm	100 Nos	100.00	123.00	123.00
9999	Carriage of materials	L.S.	3.64	1.00	3.64
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				607.02
	Add for water charge @ 1 %				6.07
	TOTAL				613.09
	Add for contractor's profit and overheads @ 15%				91.96
	Cost of 10 nos.				705.05
	Cost of 1 no.				70.51
	Say				70.50

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:

9.95.3 100x75x4 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0689	Aluminium butt hinges 100x75x4.00 mm	10 Nos	10.00	416.00	416.00
0586	C.P.brass screws 40 mm	100 Nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				572.11
	Add for water charge @ 1%				5.72
	TOTAL				577.83
	Add for contractor's profit and overheads @ 15%				86.67
	Cost of 10 nos.				664.50
	Cost of 1 no.				66.45
	Say				66.45

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:

9.95.4: 100x63x4 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0691	Aluminium butt hinges 100x63x4.00 mm	10 Nos	10.00	354.00	354.00
0586	C.P.brass screws 40 mm	100 Nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				510.11
	Add for water charge @ 1%				5.10
	TOTAL				515.21
	Add for contractor's profit and overheads @ 15%				77.28
	Cost of 10 nos.				592.49
	Cost of 1 no.				59.25
	Say				59.25

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:

9.95.5 : 100x63x3.2 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0690	Aluminium butt hingesl00x63x3.20 mm	10 Nos	10.00	390.00	390.00
0586	C.P.brass screws 40 mm	100 Nos	80.00	150.00	120.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				546.11
	Add for water charge @ 1 %				5.46
	TOTAL				551.57
	Add for contractor's profit and overheads @ 15%				82.74
	Cost of 10 nos.				634.31
	Cost of 1 no.				63.43
	Say				63.45

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:

9.95.6 : 75x63x4 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0692	Aluminium butt hinges 75x63x4.00 mm	10 Nos	10.00	281.00	281.00
0587	C.P.brass screws 30 mm	100 Nos	60.00	90.00	54.00
9,999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				370.20
	Add for water charge @ 1 %				3.70
	TOTAL				373.90
	Add for contractor's profit and overheads @ 15%				56.08
	Cost of 10 nos.				429.98
	Cost of 1 no.				43.00
	Say				43.00

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:

9.95.7: 75x63x3.2 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0693	Aluminium butt hinges 75x63x3.20 mm	10 Nos	10.00	215.00	215.00
0587	C.P.brass screws 30 mm	100 Nos	60.00	90.00	54.00
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				304.20
	Add for water charge @ 1%				3.04
	TOTAL				307.24
	Add for contractor's profit and overheads @ 15%				46.09
	Cost of 10 nos.				353.33
	Cost of 1 no.				35.33
	Say				35.35

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: .

9.95.8 : 75x45x3.2 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0694	Aluminium butt hinges 75x45x3.20 mm	10 Nos	10.00	98.00	98.00
0587	C.P.brass screws 30 mm	100 Nos	60.00	90.00	54.00
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1 st class	Day	0.14	151.50	21.21
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				187.20
	Add for water charge @ 1%				1.87
	TOTAL				189.07
	Add for contractor's profit and overheads @ 15%				28.36
	Cost of 10 nos.				217.43
	Cost of 1 no.				21.74
	Say				21.75

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 300x16 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0696	Aluminium sliding bolt 300x16 mm	each	10.00	125.00	1 250.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of materials	L.S.	5.46	1.00	5.46
	Labour-				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
	TOTAL				1 364.41
	Add for water charge @ 1%				13.64
	TOTAL				1 378.05
	Add for contractor's profit and overheads @ 15%				206.71
	Cost of 10 sliding bolts				1 584.76
	Cost of 1 sliding bolt				158.48
	Say				158.50

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 :

9.96.2 250x16 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0697	Aluminium sliding bolt 250x16 mm	each	10.00	104.00	1 040.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of materials	L.S.	5.46	1.000	5.46
	Labour-				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
	TOTAL				1154.41
	Add for water charge @ 1 %				11.54
	TOTAL				1165.95
	Add for contractor's profit and overheads @ 15%				174.89
	Cost of 10 sliding bolts				1340.84
	Cost of 1 sliding bolt				134.08
	Say				134.10

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 300x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0698	Aluminium tower bolt (barrel type)300x10 mm	10 Nos	10.00	520.00	520.00
0587	C.P. brass screws 30 mm	100 Nos	80.00	90.00	72.00
9,999	Carriage of materials	L.S.	4.42	1.00	4.42
	Labour-				
0111	Carpenter 1st class	Day	0.125	151.50	18.94
	TOTAL				615.36
	Add for water charge @ 1%				6.15
	TOTAL				621.51
	Add for contractor's profit and overheads @ 15%				93.23
	Cost of 10 tower bolts				714.74
	Cost of 1 tower bolt				71.47
	Say				71.45

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 :

9.97.2 : 250x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0699	Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	10.00	440.00	440.00
0587	C.P. brass screws 30 mm	100 Nos	80.00	90.00	72.00
9999	Carriage of materials	L.S.	4.42	1.00	4.42
	Labour-				
0111	Carpenter 1st class	Day	0.125	151.50	18.94
	TOTAL				535.36
	Add for water charge @ 1 %				5.35
	TOTAL				540.71
	Add for contractor's profit and overheads @ 15%				81.11
	Cost of 10 tower bolts				621.82
	Cost of 1 tower bolt				62.18
	Say				62.20

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 :

9.97.3 : 200x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0700	Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	10.00	354.00	354.00
0587	C.P. brass screws 30 mm	100 Nos	80.00	90.00	72.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.125	151.50	18.94
	TOTAL				447.67
	Add for water charge @ 1%				4.48
	TOTAL				452.15
	Add for contractor's profit and overheads @ 15%				67.82
	Cost of 10 tower bolts				519.97
	Cost of 1 tower bolt				52.00
	Say				52.00

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 :

9.97.4 : 150x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0701	Aluminium tower bolt barrel type) 150x10 mm	10 Nos	10.00	281.00	281.00
0587	C.P. brass screws 30 mm	100 Nos	80.00	90.00	72.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.08	151.50	12.12
	TOTAL				367.85
	Add for water charge @ 1%				3.68
	TOTAL				371.53
	Add for contractor's profit and overheads @ 15%				55.73
	Cost of 10 tower bolts				427.26
	Cost of 1 tower bolt				42.73
	Say				42.75

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 :

9.97.5 : 100x10 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0702	Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	10.00	208.00	208.00
0587	C.P. brass screws 30 mm	100 Nos	60.00	90.00	54.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.08	151.50	12.12
	TOTAL				276.85
	Add for water charge @ 1 %				2.77
	TOTAL				279.62
	Add for contractor's profit and overheads @ 15%				41.94
	Cost of 10 tower bolts				321.56
	Cost of 1 tower bolt				32.16
	Say				32.15

9.98 : Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws bolts, nuts and washers etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 pull bolt lock				
	Materials-				
2464	aluminum Pull bolt lock with necessary screws, bolts, eachnuts and washers complete	each	10.00	34.00	340.00
9999	Carriage of materials	L.S.	6.37	1.00	6.37
	Labour-				
0112	Carpenter 2nd class	Day	0.25	141.60	35.40
	TOTAL				381.77
	Add for water charge @ 1%				3.82
	TOTAL				385.59
	Add for contractor's profit and overheads @ 15%				57.84
	Cost of 10 pull bolt locks				443.43
	Cost of 1 pull bolt lock				44.34
	Say				44.35

9.99 : Providing and fixing 50cm long aluminium kicking plate 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.				
	Materials				
0706	Kicking plate 50 cm long - 100x3.15 mm	each	10.00	94.00	940.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of materials	L.S.	5.46	1.00	5.46
	Labour-				
0111	Carpenter 1 st class	Day	0.07	151.50	10.60
0114	Beldar	Day	0.05	135.25	6.76
	TOTAL				996.02
	Add for water charge @ 1 %				9.96
	TOTAL				1005.98
	Add for contractor's profit and overheads @ 15%				150.90
	Cost of 10 kicking plates				1156.88
	Cost of 1 kicking plate				115.69
	Say				115.70

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.				
	Materials-				
0703	Aluminium handles 125 mm	10 Nos	10.00	375.00	375.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.06	151.50	9.09
	TOTAL				420.02
	Add for water charge @ 1%				4.20
	TOTAL				424.22
	Add for contractor's profit and overheads @ 15%				63.63
	Cost of 10 handles				487.85
	Cost of 1 handle				48.79
	Say				48.80

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 :

9.100.2 : 100 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0704	Aluminium handles 100 mm	10 Nos	10.00	260.00	260.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1 st class	Day	0.06	151.50	9.09
	TOTAL				304.11
	Add for water charge @ 1 %				3.04
	TOTAL				307.15
	Add for contractor's profit and overheads @ 15%				46.07
	Cost of 10 handles				353.22
	Cost of 1 handle				35.32
	Say				35.30

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 :

9.100.3 : 75 mm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
0705	Aluminium handles 75 mm	10 Nos	10.00	208.00	208.00
0589	C.P. brass screws 25 mm	100 Nos	40.00	63.00	25.20

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0111	Carpenter 1st class	Day	0.06	151.50	9.09
	TOTAL				244.11
	Add for water charge @ 1 %				2.44
	TOTAL				246.55
	Add for contractor's profit and overheads @ 15%				36.98
	Cost of 10 handles				283.53
	Cost of 1 handle				28.35
	Say				28.35

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.				
	Materials-				
2459	Aluminium hanging floor door stopper 75 mm	each	10.00	14.00	140.00
0588	C.P. brass screws 25 mm	100 Nos	20.00	83.00	16.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1 st class	Day	0.03	151.50	4.54
	TOTAL				163.87
	Add for water charge @ 1 %				1.64
	TOTAL				165.51
	Add for contractor's profit and overheads @ 15%				24.83
	Cost of 10 door stoppers				190.34
	Cost of 1 stopper				19.03
	Say				19.05

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.

9.101.2: Twin rubber stopper

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos.				
	Materials-				
7059	Aluminium hanging floor door stopper with twin rubber stopper	each	10.00	44.00	440.00
0588	C.P. brass screws 25 mm	100 Nos	20.00	83.00	16.60
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.03	51.50	4.54
	TOTAL				463.87
	Add for water charge @ 1 %				4.64
	TOTAL				468.51
	Add for contractor's profit and overheads @ 15%				70.28
	Cost of 10 door stoppers				538.79
	Cost of 1 stopper				53.88
	Say				53.90

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.				
	Materials-				
2465	Aluminium casement stays	each	10.00	36.00	360.00
0588	C.P. brass screws 25 mm	100 Nos	40.00	83.00	33.20
9999	Carriage of materials	L.S.	0.91	1.00	0.91
	Labour-				
0111	Carpenter 1 st class	Day	0.10	151.50	15.15
	TOTAL				409.26
	Add for water charge @ 1 %				4.09
	TOTAL				413.35
	Add for contractor's profit and overheads @ 15%				62.00
	Cost of 10 casement stays				475.35
	Cost of 1 casement stay				47.54
	Say				47.55

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 with necessary screws etc. complete (Best make of approved quality).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 lock				
	Materials-				
7001	100 mm mortice latch and lock (without handles)	each	1.00	150.00	150.00
7003	Pair of aluminium handles	each	1.00	195.00	195.00
	Labour-				
0111	Carpenter 1 st class	Day	0.17	151.50	25.76
9999	Sundries including carriage of materials	L.S.	4.55	1.00	4.55
	TOTAL				375.31
	Add for water charge @ 1%				3.75
	TOTAL				379.06
	Add for contractor's profit and overheads @ 15%				56.86
	Cost of 1 lock				435.92
	Say				435.90

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				
	Materials-				
7056	Aluminium channel (heavy duty) with and stop end as curtain rod	metre	2.00	35.00	70.00
9999	Labour	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	1.43	1.00	1.43
	TOTAL				74.16
	Add for water charge @ 1%				0.74
	TOTAL				74.90
	Add for contractor's profit and overheads @ 15%				11.24
	Cost of 2 m				86.14
	Cost of 1 m				43.07
	Say				43.05

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/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.5mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm dia-meter,40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.50mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing 450mm centre to centre and fixing of boards to either side of frame work by 25mm drive all screws on studs, floor and ceiling channels at the spacing of 300mm centre to centre, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specificatior and direction of engineer-in-charge all complete.

9.105.1: 67mm overall thickness partition with 8.5 mm thick double skin Glass reinforced Gypsum (GRG) board conforming to IS: 2095: part III

Code	Description	Unit	Quantity	Rate	Amount
	Materials for 6.00x3.65 = 21.9 sqm. (Partition Panel)				
7366	(i)Glass reinforced Gyp sum (GRG) board 8.5 mm thick	sqm	43.80	190.00	8322.00
7367	(ii) 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	48.00	576.00
7369	(iii) 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	55.00	2208.25
7020	(iv) Screw 20mm long (drive all scews) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 = 392	100 Nos	392.00	40.00	156.80
7019	(v) Dash fastner [(6.00/0.61)+1]x2=22	each	22.00	8.00	176.00
7048	(vi) Rawl plug [(3.65/0.45)+1]x2= 18	each	18.00	7.00	126.00
0869	(vii) Plaster of paris, (88/100)x21.9 = 19.27	kilogram	19.27	2.50	48.18
0763	(viii) Glue (22/100)x21.90=4.82	kilogram	4.82	50.00	241.00
7018	(ix) Paper tape (120m roll) (300/100)x21.90/120 = 0.584 Nos.	roll	0.584	120.00	70.08
7021	(x) Primer (36/100)21.90 = 7.88 litre	litre	7.88	76.00	598.88
1022	(xi) Galvanised steel bolts & nuts 6mm dia. 25mm Long 11x2x2=44	10 Nos	44.00	9.00	39.60
1211	(xii) G.I. Plain washer for seam bolts	100 Nos	44.00	21.00	9.24
9999	Sundries carriage	L.S.	52.00	1.00	52.00
9999	Sundries scaffolding	L.S.	130.00	1.00	130.00
	Labour for 21.90 sqm.				
0111	Carpernter 1st class 0.3x21.90	Day	6.57	151.50	995.36
0112	Carpenter 2nd class 0.13x21.90	Day	2.847	141.60	403.14
0131	Painter 0.05x21.90	Day	1.095	141.60	155.05
0114	Beldar 0.35x21.90	Day	7.665	135.25	1036.69
	TOTAL				15344.27
	Add for water charge @ 1 %				153.44
	TOTAL				15497.71
	Add for contractor's profit and overheads @ 15%				2324.66
	Cost for 21.90 sqm				17822.37
	Cost for 1 sqm.				813.81
	Say				813.80

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/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.5mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm dia meter 40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.50mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall wtih rawl plugs at spacing of 450mm centre to centre and fixing of boards to either side of frame work by 25mm, drive all screws on studs, floor and ceiling channels at the spacing of 300mm centre to centre, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specificatior and direction of engineer-in-charge all complete,

9.105.2: 75mm overall thickness partition with 12.5mm thick double skin plain Gypsum board conforming to IS: 2095: part I

Code	Description	Unit	Quantity	Rate	Amount
	Materials for 6.00x3.65 = 21.9 sqm. (Partition Panel)				
8717	(i) 12.5mm thick Plain Gypsum board -2x6.00x3.65=43.80sqm.	sqm	43.80	130.00	5694. 00
7367	(ii) 50mm floor and ceiling channel 2x6.00 = 12m	metre	12.00	48.00	576.00
7369	(iii) 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	55.00	2 208.25
7020	(iv) Screw 20mm long (drive all scews) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 = 392	100 Nos	392.00	40.00	156.80
7019	(v) Dash fastner [(6.00/0.61)+1]x2=22	each	22.00	8.00	176.00
7048	(vi) Rawl plug [(3.65/0.45)+ 1]x2= 18	each	18.00	7.00	126.00
0869	(vii) Plaster of paris, (88/100)x21.9 = 19.27	kilogram	19.27	2.50	48.18
0763	(viii) Glue (22/100)x21.90=4.82	kilogram	4.82	50.00	241.00
7018	(ix) Paper tape (120m roll) (300/100)x21.90/120 = 0.584 Nos.	roll	0.584	120.00	70.08
7021	(x) Primer (36/100)21.90 = 7.88 litre	litre	7.88	76.00	598.88
1022	(xi) Galvanised steel bolts & nuts 6mm dia. 25mm Long 11x2x2=44	10 Nos	44.00	9.00	39.60
1211	(xii) G.I. Plain washer for seam bolts	100 Nos	44.00	21.00	9.24
9999	Sundries carriage	L.S.	52.00	1.00	52.00
9999	Sundries scaffolding	L.S.	130.00	1.00	130.00
	Labour for 21.90 sqm.				
0111	Carpernter 1st class 0.3x21.90	Day	6.57	151.50	995.36
0112	Carpenter Ilnd class 0.13x21.90	Day	2.847	141.60	403.14
0131	Painter 0.05x21.90	Day	1.095	141.60	155.05
0114	Beldar 0.35x21.90	Day	7.665	135.25	1036.69
	TOTAL				12716.27
	Add for water charge @ 1%				127.16
	TOTAL				12843.43
	Add for contractor's profit and overheads @ 15%				1926.51
	Cost for 21.90 sqm				14769.94
	Cost for 1 sqm.				674.43
	Say				674.45

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/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.5mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm dia meter 40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.50mm thick "fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacingt of 450mm centre to centre and fixing of boards to either side of frame work by 25mm drive all screws on studs, floor and ceiling channels at the spacing of 300mm centre to centre, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specificatior and direction of enginner-in-charge all complete.

9.105.3: 66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure. Non Combustible & Spread of Flame (as per BS standard 476 Part IV & VII), Water, Termite & Fungus Resistant, Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg/ sqcm.

Code	Description	Unit	Quantity	Rate	Amount
	Materials for 6.00x3.65 = 21.9 sqm. (Partition Panel)				
8699	(i) 8 mm thick tapered edge calcium silicate board .	sqm	43.80	194.00	8 497.20
7367	(ii) 50mm floor and ceiling channel 2x6.00 = 12m	metre	12.00	48.00	576.00
7369	(iii) 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65= 40.15m	metre	40.15	55.00	2 208.25
7020	(iv) Screw 20mm long (drive all scews) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 = 392	100 Nos	392.00	40.00	156.80
7019	(v) Dash fastner [(6.00/0.61)+1]x2=22	each	22.00	8.00	176.00
7048	(vi) Rawl plug [(3.65/0.45)+1]x2= 18	each	18.00	7.00	126.00
0869	(vii) Plaster of paris, (88/100)x21.9 = 19.27	kilogram	19.27	2.50	48.18
0763	(viii) Glue (22/100)x21.90=4.82	kilogram	4.82	50.00	241.00
7018	(ix) Paper tape (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	120.00	70.08
7021	(x) Primer (36/100)21.90 = 7.88 litre	litre	7.88	76.00	598.88
1022	(xi) Galvanised steel bolts & nuts 6mm dia. 25mm Long 11x2x2=44	10 Nos	44.00	9.00	39.60
1211	(xii) G.I. Plain washer for seam bolts	100 Nos	44.00	21.00	9.24
9999	Sundries carriage	L.S.	52.00	1.00	52.00
9999	Sundries scaffolding	L.S.	130.00	1.00	130.00
	Labour for 21.90 sqm.				
0111	Carpernter 1st class 0.3x21.90	Day	6.57	151.50	995.36
0112	Carpenter IInd class 0.13x21.90	Day	2.847	141.60	403.14
0131	Painter 0.05x21.90	Day	1.095	141.60	155.05
0114	Beldar 0.35x21.90	Day	7.665	135.25	1 036.69
	TOTAL				15 519.47
	Add for water charge @ 1%				155.19
	TOTAL				15 674.66
	Add for contractor's profit and overheads @ 15%				2 351.20
	Cost for 21.90 sqm				18 025.86
	Cost for 1 sqm.				823.10
	Say				823.10

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/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.5mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm dia meter 40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.50mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing of 450mm centre to centre and fixing of boards to either side of frame work by 25mm drive all screws on studs, floor and ceiling channels at the spacing of 300mm centre to centre, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of Enginner-in-charges all complete

9.105.4: 66mm overall thickness partition using 8mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS: 14862, non combustible, non ignitable ,fire propagation index and surface spread of flame (as per BS 476 part IV, V, VI and VII), moisture, termite & fungus resistant, with suitable fibre cement screw.

Code	Description	Unit	Quantity	Rate	Amount
	Materials for 6.00x3.65 =21.9 sqm. (Partition Panel)				
0237	(i) 8 mm thick multipurpose non asbestos fibre cement board.	sqm	43.80	239.00	10468.20
7367	(ii) 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	48.00	576.00
7369	(iii) 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	55.00	2208.25
7020	(iv) Screw 20mm long (drive all scews) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 = 392	100 Nos	392.00	40.00	156.80
7019	(v) Dash fastner [(6.00/0.61)+1]x2=22	each	22.00	8.00	176.00
7048	(vi) Rawl plug [(3.65/0.45)+1]x2= 18	each	18.00	7.00	126.00
0869	(vii) Plaster of paris, (88/100)x21.9 = 19.27	kilogram	19.27	2.50	48.18
0763	(viii) Glue (22/100)x21.90=4.82	kilogram	4.82	50.00	241.00
7018	(ix) Paper tape (120m roll) (300/100)x21.90/120 = 0.584 No.	roll	0.584	120.00	70.08
7021	(x) Primer (36/100)21.90 = 7.88 litre	litre	7.88	76.00	598.88
1022	(xi) Galvanised steel bolts & nuts 6mm dia. 25mm Long 11x2x2=44	10 Nos	44.00	9.00	39.60
1211	(xii) G.I. Plain washer for seam bolts	100 Nos	44.90	21.00	9.24
9999	Sundries carriage	L.S.	52.00	1.00	52.00
9999	Sundries scaffolding	L.S.	130.00	1.00	130.00
	Labour for 21.90 sqm.				
0111	Carpernter 1st class 0.3x21.90	Day	6.57	151.50	995.36
0112	Carpenter IInd class 0.13x21.90	Day	2.847	141.60	403.14
0131	Painter 0.05x21.90	Day	1.095	141.60	155.05
0114	Beldar 0.35x21.90	Day	7.665	135.25	1036.69
	TOTAL				17490.47
	Add for water charge @ 1%				174.90
	TOTAL				17665.37
	Add for contractor's profit and overheads @ 15%				2649.81
	Cost for 21.90 sqm				20315.18
	Cost for 1 sqm.				927.63
	Say				927.65

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				
	Materials-				
7512	PTMT handle 125x34x24mm	Each	10.00	27.00	270.00
0639	Mild steel screws 25 mm	100 Nos	40.00	15.00	6.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.06	141.60	8.50
	TOTAL				287.23
	Add for water charge @ 1%				2.87
	TOTAL				290.10
	Add for contractor's profit and overheads @ 15%				43.52
	Cost of 10 Nos				333.62
	Cost of 1 No				33.36
	Say				33.35

9.106 : Providing and fixing PTMT handles with necessary screws etc. complete.
9.106.2 : 150x34x24 mm weighing not less than 26 gms.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
7513	PTMT handle 150x34x24mm	Each	10.00	30.00	300.00
0639	Mild steel screws 25 mm	100 Nos	40.00	15.00	6.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.06	141.60	8.50
	TOTAL				317.23
	Add for water charge @ 1 %			3.17	
	TOTAL				320.40
	Add for contractor's profit and overheads @ 15%				48.06
	Cost of 10 Nos				368.46
	Cost of 1 No				36.85
	Say				36.85

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				
	Materials-				
7514	PTMT butt hinges 75x60x10mm	Each	10.00	36.00	360.00
0638	Iron screws 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of materials	L.S.	1.82	1.00	1.82
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				408.21
	Add for water charge @ 1 %				4.08
	TOTAL				412.29
	Add for contractor's profit and overheads @ 15%				61.84
	Cost of lONos				474.13
	Cost of 1 No				47.41
	Say				47.40

9.107 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.
9.107.2 100x75x10 mm fitted with 5.5 mm dia MSBright Bar Rod weighing not less than 53gms.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
7515	PTMT butt hinges 100x75x 10mm	Each	10.00	48.00	480.00
0637	Iron screws 40 mm	100 Nos	80.00	30.00	24.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.14	141.60	19.82
0114	Beldar	Day	0.09	135.25	12.17
	TOTAL				538.72
	Add for water charge @ 1%				5.39
	TOTAL				544.11
	Add for contractor's profit and overheads 15%				81.62
	Cost of lONos				625.73
	Cost of 1 No				62.57
	Say				62.55

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				
	Materials-				
7516	PTMT Tower bolt 152x42x18mm	Each	10.00	60.00	600.00
0638	Mild steel screws 30 mm	100 Nos	60.00	24.00	14.40
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.08	141.60	11.33
	TOTAL				628.46
	Add for water charge @ 1 %				6.28
	TOTAL				634.74
	Add for contractor's profit and overheads @ 15%				95.21
	Cost of lONos				729.95
	Cost of 1 No				73.00
	Say				73.00

9.108 Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.
9.108.2 202x42x18 mm weighing not less than 78 gms.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for ten				
	Materials-				
7517	PTMT Tower bolt 202x42x 18mm	Each	10.00	72.00	720.00
0638	Mild steel screws 30 mm	100 Nos	80.00	24.00	19.20
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0112	Carpenter 2nd class	Day	0.10	141.60	14.16
	TOTAL				756.09
	Add for water charge @ 1%				7.56
	TOTAL				763.65
	Add for contractor's profit and overheads @ 15%				114.55
	Cost of lONos				878.20
	Cost of 1 No				87.82
	Say				87.80

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				
	Materials-				
7518	PTMT door catcher 72x42mm	Each	10.00	24.00	240.00
0639	Mild steel screws 25 mm	100 Nos	20.00	15.00	3.00
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour-				
0111	Carpenter 1st class	Day	0.03	151.50	4.54
	TOTAL				250.27
	Add for water charge @ 1%				2.50
	TOTAL				252.77
	Add for contractor's profit and overheads @ 15%				37.92
	Cost of 10 Nos				290.69
	Cost of 1 No				29.07
	Say				29.05

9.110 Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25mm fixed with nails and G.I wire to 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 1.00m x 2.10m = 2.10 sqm				
	MATERIALS				
	(I) 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				
0305	Bamboo 25 mm dia 2.5 metre long	Metre	48.30	3.84	185.47
9999	Carriage of Bamboo	L.S.	4.83	1.00	4.83
	Hollock wood 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				
2466	Hollock wood in scantling	10 cudm	3.94	217.00	85.50
204	Carriage of Timber	cum	0.00394	60.81	0.24
9999	Nails and wire	L.S.	20.25	1.00	20.25
	LABOUR				
0112	Carpenter 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S.	10.05	1.00	10.05
	TOTAL				375.55
	Add 1 % for water charges.				3.76
	TOTAL				379.31
	Add 15% for contractor's profit and overheads.				56.90
	Cost for 2.10 sqm				436.21
	Cost for 1 sqm				207.72
	Say				207.70

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				
	MATERIALS				
	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 cudm	6.88	410.00	282.08
2204	Carriage of Timber	cum	0.00688	60.81	0.42
0637	Iron screws	100 Nos	6.00	30.00	1.80
	Priming coat				
	Area 5.0 x (.05 +.05) = 0.50 sqm				
	Rate as per item no 13.50.1 of SH : Finishing	sqm	0.50	16.55	8.28
	Labour:-				
	For plaining, fixing & making design				
0111	Carpenter 1st class	Day	0.75	151.50	113.62
	TOTAL				406.20
	Add 1% for water charges				3.98
	TOTAL				410.18
	Add 15% for contractor's profit and overhead's				60.28
	Cost for 5 metre				470.46
	Cost for 1 metre				94.09
	Say				94.10

9.112 Providing and fixing 2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5mm fixed with wooden adhesive like fevicol etc and screws/ nails on the edges of the prelaminated particle board as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 m				
	MATERIALS				
8719	2nd class teak wood lipping/ moulded beadibg or Taj beading of size 18X5mm	metre	10.00	19.00	190.00
	LABOUR				
0112	Carpenter 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	0.25	135.25	33.81
	TOTAL				259.21
	Add 1 % for water charges				2.59
	TOTAL				261.80
	Add 15% for contractor's profit and overheads				39.27
	Cost for 10.00m				301.07
	Cost for 1.00m				30.11
	Say				30.10

9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (Best make of approved quality) as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 no.				
8716	100 mm mostice lock with 6 levers for aluminium door.	each	1.00	152.50	152.50
	LABOUR				
0111	Carpenter 1st class	Day	0.13	151.50	19.70
9999	Sundries(screws, carriage etc)	L.S.	2.60	1.00	2.60
	TOTAL				174.80
	Add 1% for water charges				1.75
	TOTAL				176.55
	Add 15% for contractor's profit and overheads				26.48
	Cost for 1 no				203.03
	Say				203.05

9.114 Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality.

9.114.1 Triple strip vertical type.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIALS				
8714	Magenatic catcher triple strip verticle type.	each	1.00	13.50	13.50
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.00	2.60
	TOTAL				16.10
	Add 1% for water charges				0.16
	TOTAL				16.26
	Add 15% for contractor's profit and overheads				2.44
	Cost for 1 No.				18.70
	Say				18.70

9.114 Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality.

9.114.2 Double strip (horizontal type).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIALS				
8715	Magenatic catcher double strip horizontal type.	each	1.00	10.00	10.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.00	2.60
	TOTAL				12.60
	Add 1% for water charges				0.13
	TOTAL				12.73
	Add 15% for contractor's profit and overheads				1.91
	Cost for 1 No.				14.64
	Say				14.65

9.115 Providing and fixing powder coated telescopic drawer channels 300mm 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.				
	MATERIALS				
8703	Telescopic drawer channels 300mm long.	set	10.00	92.00	920.00
9999	Carriage	L.S.	19.50	1.00	19.50
9999	Sundries including screws and fixing charges.	L.S.	100.10	1.00	100.10
	TOTAL				1 039.60
	Add 1 % for water charges				10.40
	TOTAL				1 050.00
	Add 15% for contractor's profit and overheads				157.50
	Cost for 10 sets				1 207.50
	Cost for 1 sets				120.75
	Say				120.75

9.116 Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by P/F 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.				
	MATERIALS				
8704	Stainless steel roller for sliding arrangment in racks/ cupboards/ cabinets shutter.	each	1.00	5.00	5.00
9999	Labour for fixing	L.S.	1.04	1.00	1.04
	TOTAL				6.04
	Add 1% for water charges				0.06
	TOTAL				6.10
	Add 15% for contractor's profit and overheads				0.92
	Cost for I No.				7.02
	Say				7.00

9.117 Providing and fixing factory made UPVC door frame made of UPVC extruded, section having an overall dimension, as below (tolerance +/- 1mm) with wall thickness 2.0mm+/- 02mm. corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joint mitred and plastic wilded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19X19mm and 1 mm +/- 0.1 mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge

9.117.1 Extruded section Profile size 48x40 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 5 metre				
	MATERIALS				
8010	48mmX40mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	112.00	560.00
	LABOUR				
0156	Carpenter (average)	Day	0.15	146.55	21.98
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S.	4.68	1.00	4.68
	TOTAL				606.95
	Add 1% for water charges				6.07
	TOTAL				613.02
	Add 15% for contractor's profit and overheads				91.95
	Cost of 5 metre				704.97
	Cost of 1.00 metre				140.99
	Say				141.00

9.117 Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimension as. below (tolerance +lmm) with wall thickness 2.0mm +/;0.2mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joint mitred and plastic wilded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and lmm +/- 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge

9.117.2 Extruded section Profile size 42x50 mm.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 5 metre				
	MATERIALS				
8705	50mmX42mmX 1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	117.00	585.00
	LABOUR				
0156	Carpenter (average)	Day	0.15	146.55	21.98
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S.	4.68	1.00	4.68
	TOTAL				631.95
	Add 1 % for water charges				6.32
	TOTAL				638.27
	Add 15% for contractor's profit and overheads				95.74
	Cost of 5 metre				734.01
	Cost of 1.00 metre				146.80
	Say				146.80

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 joined 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 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. (For W.C. and bathroom door shutter).

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 2.38 sqm				
	one door shutter 2.20x1.08m = 2.38 sqm				
	MATERIALS				
8001	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish i/c carriage	sqm	2.38	1 830.00	4355.40
	LABOUR				
0156	Carpenter (average)	Day	0.400	146.55	58.62

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				4488.48
	Add 1 % for water charges				44.88
	TOTAL				4533.36
	Add 15% for contractor's profit and overheads				680.00
	Cost of 2.38 sqm				5213.36
	Cost of 1.00 sqm				2190.49
	Say				2190.50

9.118 Providing and fixing to existing door frames.

9.118.2 30mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC profile section of size 30mm x 60mm and wall thickness 2mm ±0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75x220mm mitre and welded at the corners. The- stiles of the shutter reinforced by inserting galvanized M.S. tube of size 25x20mm and 1mm ± 0.1mm wall thickness. The lock rail made up of 'H' section, a UPVC profile section of size 30mm x 100mm and 2mm±0.2mm wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620mm, having overall thickness of 20 mm and 1 mm±0.1 mm wall thickness with 20 mm panel beading of suitable size /Glass(4mm thick plain glass)/louver section, louver frame of suitable size, as per manufactures specification and direction of Engineer-in-charge. (For W.C. and bathroom door Shutter)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 2.38 sqm.				
	one door shutter 2.20x1.08m = 2.38 sqm				
	MATERIALS				
8002	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.38	1 900.00	4 522.00
	LABOUR				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	Total				4 655.08
	Add 1% for water charges				46.55
	TOTAL				4 701.63
	Add 15% for contractor's profit and overheads.				705.24
	Cost of 2.38 sqm				5 406.87
	Cost of 1.00 sqm				2 271.79
	Say				2 271.80

9.118 Providing and fixing to existing door frames.

9.118.3 25mm thick PVC flush door shutters upto 737mm width of colour and shade as approved by Engineer-in-charge made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm ± 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An MS tube having dimensions 19mm x 19mm 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 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and drawing 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
	Detail of cost for 2.38 sqm				
	one door shutter 2.20x1.08m = 2.38 sqm				
	MATERIALS				
8706	25mm thick factory made PVC flash foor shutter.	sqm	2.38	1 975.00	4 700.50
	LABOUR				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				4833.58
	Add 1% for water charges				48.34
	TOTAL				4881.92
	Add 15% for contractor's profit and overheads				732.29
	Cost of 2.38 sqm				5614.21
	Cost of 1.00 sqm				2358.91
	Say				2358.90

9.119 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm 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 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one door frame of 5 metre				
	Materials-				
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	5.00	294.00	1470.00
	Labour-				
0156	Carpenter (average)	Day	0.15	146.55	21.98
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S.	7.80	1.00	7.80
	TOTAL				1520.07
	Add for water charge @ 1 %				15.20
	TOTAL				1535.27
	Add for contractor's profit and overheads @ 15%				230.29
	Cost of 5 metres				1765.56
	Cost of 1 metre				353.11
	Say				353.10

9.120 Providing and fixing to existing door frames.

9.120.1 30mm thick factory made solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, top & bottom rails. M.S .frame shall have a coat of steel primers of approved make and manufacture M.S. frame covered with 5mm thick heat moulded PVC 'C channel of

size 30mm thickness, 110mm width out of which 90mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming stiles; and 5mm thick, 110mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be tapered on the inner side to form top and bottom rail and 130mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet shall be provided as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm +2mm) thick x 15mm wide PVC sheet bending on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm 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, manufacture's specification & drawing.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 2.20x1.08m = 2.38 sqm				
	Materials-				
8003	Factory made shutter i/c carriage	sqm	2.38	1743.00	4148.34
8100	Powder coated M.S. butt hinges 100mm X 58mm X 1.9mm	10 Nos	4.00	66.00	26.40
0637	M.S. screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20mm	100 Nos	8.00	15.00	1.20
	Labour-				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				4323.42
	Add for water charge @ 1%				43.23
	TOTAL				4366.65
	Add for contractor's profit and overheads @ 15%				655.00
	Cost of 2.38 sqm				5021.65
	Cost per sqm				2109.94
	Say				2109.95

9.120 Providing and fixing to existing door frames.

9.120.2 30mm thick factory made solid both side prelam panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded prelam PVC 'C channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming stiles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, button and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5mm thick both side Prelam PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm 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.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 2.20x1.08m = 2.38 sqm				
	Materials-				
8004	Factory made PVC shutter i/c carriage	sqm	2.38	2148.00	5112.24
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	4.00	66.00	26.40
0637	M.S. screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20mm	100 Nos	8.00	15.00	1.20
	Labour-				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				5 287.32
	Add for water charge @ 1 %				52.87
	TOTAL				5 340.19
	Add for contractor's profit and overheads @ 15%				801.03
	Cost of 2.38 sqm				6141.22
	Cost per sqm				2580.34
	Say				2580.35

9.121 Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate shall be molded with fire resistant grade unsaturated polyester resin and chopped mat .Doorframe laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fibreglass from all sides. MS 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				
	Materials-				
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	5.00	333.00	1665.00
	Labour-				
0156	Carpenter (average)	Day	0.15	146.55	21.98
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S.	7.80	1.00	7.80
	TOTAL				1715.07
	Add for water charge @ 1%				17.15
	TOTAL				1732.22
	Add for contractor's profit and overheads @ 15%				259.83
	Cost of 5 metres				1992.05
	Cost of 1 metre				398.41
	Say				398.40

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 5mm thick FRP laminate for panels confirming to TADS 6: 1993 and / or IS: 14856 - 2000 including fixing to frames.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 2.20x1.08m = 2.38sqm				
	Materials-				
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	2.38	1580.00	3760.40
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	4.00	66.00	26.40
0637	M.S. screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20mm	100 Nos	8.00	15.00	1.20
	Labour-				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				3935.48
	Add for water charge @ 1%				39.35
	TOTAL				3974.83
	Add for contractor's profit and overheads @ 15%				596.22
	Cost of 2.38 sqm				4571.05
	Cost per sqm				1920.61
	Say				1920.60

9.122 Providing and fixing to existing door frames.

9.122.2 30mm thick fibreglass reinforced plastice (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyster resin, moulded to 3mm 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 : 2000, complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 2.20x1.08m = 2.38 sqm				
	Materials-				
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	2.38	1960.00	4664.80
8100	Powder coated M.S. butt hinges 100mm X58mmX 1.9mm	10 Nos	4.00	66.00	26.40
0637	M.S. screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20mm	100 Nos	8.00	15.00	1.20
	Labour-				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9,999	Sundries	L.S.	20.36	1.00	20.36
	TOTAL				4839.88
	Add for water charge @ 1 %				48.40
	TOTAL				4888.28

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15%				733.24
	Cost of 2.38 sqm				5 621.52
	Cost per sqm				2 361.98
	Say				2 362.00

9.123 Providing and fixing factory made door frame (single rebate) made of solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 60mm width & 30mm thickness and shall be fixed to wall as per instructions of engineer-in-charge using 100x8 sheet metal CSK screws.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one door frame of 5 metre				
	Materials-				
8710	Factory made solid PVC door frame 60 x30mm i/c carriage.	metre	5.00	223.00	1115.00
	Labour-				
0156	Carpenter (average)	Day	0.15	146.55	21.98
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S.	7.80	1.00	7.80
	TOTAL				1165.07
	Add for water charge @ 1 %				11.65
	TOTAL				1176.72
	Add for contractor's profit and overheads @ 15%				176.51
	Cost of 5 metres				1353.23
	Cost of 1 metre				270.65
	Say				270.65

9.124 Providing and fixing 28 mm thick door shutter made of solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 71mm width & 28mm thick as vertical & horizontal styles. Joints are made using solvent adhesive and GI 'C sections (39mm x 19mm x 0.6mm thick) or M S pipe (40mm x 20mm) stiffener frame insert & telescopic polymeric 'L' corners .The panel shall be filled with 3mm thick high - pressure compact laminate as per manufacturer's specifications and directions of the Engineer-in-charge, cover moulding shall be provided for covering fixing screws and elegant look.(for W.C. bathroom door shutter).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one shutter 2.20x1.08m = 2.38 sqm				
	Materials-				
8711	28mm factory made solid PVC panel door shutter i/c carriage.	sqm	2.38	1 975.00	4700.50
8100	Powder coated M.S. butt hinges 100mm X58mmX 1.9mm	10 Nos	4.00	66.00	26.40
0637	M.S. screws 40mm	100 Nos	48.00	30.00	14.40
0640	M.S. screws 20mm	100 Nos	8.00	15.00	1.20
	Labour-				
0156	Carpenter (average)	Day	0.40	146.55	58.62
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	20.36	1.00	20.36

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				4875.58
	Add for water charge @ 1 %				48.76
	TOTAL				4924.34
	Add for contractor's profit and overheads @ 15%				738.65
	Cost of 2.38 sqm				5662.99
	Cost per sqm				2379.41
	Say				2379.40

9.125 Providing and fixing PVC rigid foam sheet 1mm 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				
	Materials-				
8006	PVC rigid foam sheet1mm thick = 0.30 sqm				
	Add wastage @ 10% = 0.03 sqm				
	Total = 0.33 sqm	sqm	0.33	145.00	47.85
9999	Rubber adhesive	L.S.	21.84	1.00	21.84
	Labour-				
0111	Carpenter 1 st class	Day	0.11	151.50	16.66
0114	Beldar	Day	0.14	135.25	18.94
0130	Mistry	Day	0.02	151.50	3.03
	TOTAL				108.32
	Add for water charge @ 1 %				1.08
	TOTAL				109.40
	Add for contractor's profit and overheads @ 15%				16.41
	Cost of 0.30 sqm				125.81
	Cost per sqm				419.37
	Say				419.35

9.126 Providing and fixing 12mm 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 25mm to 40mm thick.

9.126.1 Marine plywood conforming to 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.				
	Materials:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm.				
8724	12mm thick marine plywood conforming to IS:710	sqm	0.80	740.00	592.00
9999	Carriage of Plywood	L.S.	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S.	4.42	1.00	4.42
	TOTAL				684.59

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				6.85
	TOTAL				691.44
	Add 15% for contractor's profit and overheads				103.72
	Cost of 0.67 sqm.				795.16
	Cost of 1 sqm.				1 186.81
	Say				1 186.80

9.126 Providing and fixing 12mm 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 25mm to 40mm thick.

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 panelling.. .200x 108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.67sqm.				
	Materials:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm.				
8725	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	0.80	690.00	552.00
9999	Carriage of Plywood	L.S.	1.82	1.00	1.82
	Labour:				
0111	Carpenter 1 st class	Day	0.57	151.50	86.35
9999	Sundries	L.S.	4.42	1.00	4.42
	TOTAL				644.59
	Add 1 % for water charges				6.45
	TOTAL				651.04
	Add 15% for contractor's profit and overheads				97.66
	Cost of 0.67 sqm.				748.70
	Cost of 1 sqm.				1117.46
	Say				1117.45

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 aproved quality

9.127.1 1.5 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5.00 sqm				
	MATERIALS				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8726	1.5mm thick decorative laminated sheet	sqm	5.50	405.00	2227.50
9999	Adhesive	L.S.	195.00	1.00	195.00
	LABOUR:-				
0111	Carpenter 1 st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries i/c nails etc.	L.S.	52.00	1.00	52.00

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				2617.87
	Add for water charges @ 1%				26.18
	TOTAL				2644.05
	Add for contractors profit and overheads @ 15%				396.61
	Cost for 5.00 sqm				3040.66
	Cost for 1 sqm				608.13
	Say				608.15

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 aproved quality

9.127.2 1.0 mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5.00 sqm				
	MATERIALS				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8727	1.0mm thick decorative laminated sheet	sqm	5.50	330.00	1815.00
9999	Adhesive	L.S.	195.00	1.00	195.00
	LABOUR:-				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries i/c nails etc.	L.S.	52.00	1.00	52.00
	TOTAL				2205.37
	Add for water charges @ 1 %				22.05
	TOTAL				2227.42
	Add for contractors profit and overheads @ 15%				334.11
	Cost for 5.00 sqm				2561.53
	Cost for 1 sqm				512.31
	Say				512.30

9.128 Providing and fixing factory made Fibreglass Reinforced plastics (F.R.P.) chajja 4mm 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 50x2mm thick M.S. flat with 12mm in built hole for grouting on the existing wall along with the 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: 11551 complete with protective Gelcoat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight,

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for a chajja 0.90 x 0.60 = 0.54 sqm				
	MATERIALS				
8713	Fiber glass reinforced plastic chajja including accessories.	sqm	0.54	3 520.00	1 900.80

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage	L.S.	26.00	1.00	26.00
9999	fixing charges including sundries.	L.S.	143.00	1.00	143.00
	TOTAL				2 069.80
	Add 1% for water charges				20.70
	Total				2 090.50
	Add 15% for contractor's profit and overheads				313.58
	Cost for 0.54 sqm				2 404.08
	Cost for 1 sqm				4 452.00
	Say				4 452.00

9.129 Providing and fixing cup board shutters 25mm thick, with prelaminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked exterior grade (Grade 1 Type II) having one side decorative lamination and other side balancing lamination including IInd class teak wood lipping of 25mm wide xl2 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 2.20x1.00m = 2.20sqm.				
	Materials				
7272	25 mm thick cup board shutter (prelaminated)	sqm	2.20	708.00	1557.60
9999	Carriage	L.S.	29.64	1.00	29.64
8678	lmm thick 35mm wide bright finished stainless steel piano hinges .	metre	4.40	30.00	132.00
0685	Screws 25 mm long	100 Nos	125.00	16.00	20.00
	Labour				
0111	Carpenter 1 st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
0130	Mistry	Day	0.07	151.50	10.60
7271	Add for wooden lipping 25 mm wide x 12 mm thick	metre	7.00	28.00	196.00
	TOTAL				2089.21
	Add 1 % for water charges				20.89
	TOTAL				2110.10
	Add 15% for contractor's profit and overheads				316.52
	Cost for2.20sqm.				2426.62
	Cost per sqm.				1103.01
	Say				1103.00

9.130 Providing and fixing cup board shutters with 25mm thick veneered particle board IS : 3097 marked exterior grade (Grade I) of approved make including IInd class teak wood lipping of 25mm 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 veering on other side.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one shutter 2.20x1.00m = 2.20sqm.				
	Materials				
7269	25 mm thick cup board shutter	sqm	2.20	390.00	858.00
0346	Extra for teak veneering on one side and commercial veneereing on other side	sqm	2.20	198.00	435.60

Code	Description	Unit	Quantity	Rate	Amount
9999	Carriage	L.S.	29.64	1.00	29.64
8678	lmm thick 35mm wide bright finished stainless steel piano hinges.	metre	4.40	30.00	132.00
0685	Screws 25 mm long	100 Nos	125.00	16.00	20.00
	Labour				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
0130	Mistry	Day	0.07	151.50	10.60
7271	Add for wooden lipping 25 mm wide x 12 mm thick	metre	7.00	28.00	196.00
	TOTAL				1825.21
	Add 1 % for water charges				18.25
	TOTAL				1843.46
	Add 15% for contractor's profit and overheads				276.52
	Cost for 2.20sqm.				2119.98
	Cost per sqm.				963.63
	Say				963.65

9.130 Providing and fixing cup board shutters with 25mm thick veneered particle board IS : 3097 marked exterior grade (Grade I) of approved make including IInd class teak wood lipping of 25mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges complete as per direction of Engineer-in-Charge.

9.130.2 With non decorative veneering on both sides.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one shutter 2.20x1.00m = 2.20sqm.				
	Materials				
7269	25 mm thick particle board	sqm	2.20	390.00	858.00
0347	Extra for commercial veneering on both sides	sqm	2.20	102.00	224.40
9999	Carriage	L.S.	29.64	1.00	29.64
8678	1mm thick 35mm wide bright finished stainless steel piano hinges.	metre	4.40	30.00	132.00
0685	Screws 25 mm long	100 Nos	125.00	16.00	20.00
	Labour				
0111	Carpenter 1 st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
0130	Mistry	Day	0.07	151.50	10.60
7271	Add for wooden lipping 25 mm wide x 12 mm thick	metre	7.00	28.00	196.00
	TOTAL				1 614.01
	Add 1% for water charges				16.14
	TOTAL				1 630.15
	Add 15% for contractor's profit and overheads				244.52
	Cost for 2.20sqm.				1 874.67
	Cost per sqm.				852.12
	Say				852.10

9.131 Providing and fixing factory made prelaminated 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 1 Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading alround 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 2.1x1.00 = 2.10 sqm.) Materials Prelaminated particle board = 2.10sqm. + Add for wastage @ 5% = 0.11 sqm. = 2.21sqm.				
7445	Prelaminated particle board	sqm	2.21	650.00	1436.50
7443	Aluminium single cleat of size 30x32x3	each	4.00	10.00	40.00
7444	Aluminium grip strip of size 50x12x2	each	8.00	7.00	56.00
0834	Edge sealing water resistant paint	litre	0.15	120.00	18.00
9999	Carriage of materials including loading and unloading	L.S.	19.50	1.00	19.50
9999	Sundries and screws etc.	L.S.	39.00	1.00	39.00
	Labour				
0112	Carpenter 2nd class	Day	0.27	141.60	38.23
0114	Beldar	Day	0.30	135.25	40.57
	TOTAL				1687.80
	Add 1 % for water charges				16.88
	TOTAL				1704.68
	Add 15% for contractor's profit and overheads				255.70
	Cost for 2.1 Osqm.				1960.38
	Cost per sqm.				933.52
	Say				933.50

9.132 Providing and fixing aluminum U beading of required size to prelaminated /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 = 1.10kg.				
7449	Aluminium 'U' Beading	kilogram	1.10	195.00	214.50
9999	Anodized 15 micron	L.S.	65.00	1.00	65.00
9999	Sundries including screws, fixing, carriage etc.	L.S.	13.00	1.00	13.00
	TOTAL				292.50
	Add 1 % for water charges				2.92
	TOTAL				295.42
	Add 15% for contractor's profit and overheads				44.31
	Cost per kg.				339.73
	Say				339.75

9.133 Providing and fixing, in position concealed G.I. section for wall panelling using board of required thickness fixed on the 'W profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully

threaded self-tapping drive all screws. Board is fixed to the 'Wprofile with 25 mm countersunk ribbed head screws @ 200mm 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 48mm wide fiber 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, Non combustible & spread of Flame (as per BS standard 476 Part IV & VII), Water, Termite & Fungus resistant, compressive strength 225 kg/ sq.cm, Bending strength 100 kg/sq.cm.

9.133.1.1 10mm thick.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3.66 mx 3.05 m =11.16 sqm.				
	MATERIALS				
	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	323.00	3 966.44
8720	Ceiling sections.	metre	19.66	34.00	668.44
8721	Perimeter channel	metre	9.60	20.00	192.00
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	1.50	63.00
8723	Counter sunk ribbed head screw 25mm.	cent	1.76	60.00	105.60
9999	Jointing compound	L.S.	20.80	1.00	20.80
7018	Joint tape roll	roll	0.19	120.00	22.80
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	1.00	52.00
9999	Carriage of materials	L.S.	26.00	1.00	26.00
	LABOUR:-				
0111	Carpenter 1st class	Day	3.80	151.50	575.70
0114	Beldar	Day	4.60	135.25	622.15
	TOTAL				6 314.93
	Add for water charges @ 1%				63.15
	TOTAL				6 378.08
	Add for contractors profit and overheads @ 15%				956.71
	Cost for 11.16 sqm				7 334.79
	Cost for 1 sqm				657.24
	Say				657.25

9.133 Providing and fixing, in position concealed G.I. section for wall panelling using board of required thickness fixed on the 'W profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self-tapping drive all screws. Board is fixed to the 'W^rofile with 25 mm countersunk ribbed head screws @ 200mm 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 48mm wide fiber tape to provide seamless finish.

9.133.2 Non -asbestos multipupose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS 14862 non combustible , non ignitable, fire propagation index and surface spread

of flame (as per BS 476 part IV, V, VI, and VII) moisture , termite & fungus resistant 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.				
	MATERIALS				
	Multipurpose non asbestos fibre cement board 8mm thick.= 11.16 sqm				
	Add wastage @ 10% =1.12 sqm.				
	Total = 12.28 sqm				
0237	8 mm thick multipurpose non asbestos fibre cement board.	sqm	12.28	239.00	2934.92
8720	Ceiling sections.	metre	19.66	34.00	668.44
8721	Perimeter channel	metre	9.60	20.00	192.00
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	1.50	63.00
8723	Counter sunk ribbed head screw 25mm.	cent	1.76	60.00	105.60
9999	Jointing compound	L.S.	20.80	1.00	20.80
7018	Joint tape roll	roll	0.19	120.00	22.80
9999	Sundries i/c rawl plug, scaffolfing etc.	L.S.	52.00	1.00	52.00
9999	Carriage of materials	L.S.	26.00	1.00	26.00
	LABOUR:-				
0111	Carpenter 1st class	Day	3.80	151.50	575.70
0114	Beldar	Day	4.60	135.25	622.15
	TOTAL				5283.41
	Add for water charges @ 1 %				52.83
	TOTAL				5336.24
	Add for contractors profit and overheads @ 15%				800.44
	Cost for 11.16 sqm				6136.68
	Cost for 1 sqm				549.88
	Say				549.90

9.133 Providing and fixing, in position concealed G.I. section for wall panelling using board of required thickness fixed on the 'W profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self-tapping drive allscrews. Board is fixed to the 'W'profile with 25 mm countersunk ribbed head screws @ 200mm 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 48mm wide fiber tape to provide seamless finish.

9.133.3 Gypsum board conforming to IS: 2095- 1996: 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.				
	MATERIALS				
	Glass fibre reinforced gypsum board 12.5 mm thick.= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm.				

Code	Description	Unit	Quantity	Rate	Amount
	Total = 12.28 sqm				
8717	12.5 mm thick Glass fibre reinforced Gypsum board.	sqm	12.28	130.00	1596.40
8720	Ceiling sections.	metre	19.66	34.00	668.44
8721	Perimeter channel	metre	9.60	20.00	192.00
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	1.50	63.00
8723	Counter sunk ribbed head screw 25mm.	cent	1.76	60.00	105.60
9999	Jointing compound	L.S.	20.80	1.00	20.80
7018	Joint tape roll	roll	0.19	120.00	22.80
9999	Sundries i/c rawl plug, scaffolfing etc.	L.S.	52.00	1.00	52.00
9999	Carriage of materials	L.S.	26.00	1.00	26.00
	LABOUR:-				
0111	Carpenter 1st class	Day	3.80	151.50	575.70
0114	Beldar	Day	4.60	135.25	622.15
	TOTAL				3944.89
	Add for water charges @ 1%				39.45
	TOTAL				3984.34
	Add for contractors profit and overheads @ 15%				597.65
	Cost for 11.16 sqm				4581.99
	Cost for I sqm				410.57
	Say				410.55

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 coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one quintal				
	Materials				
	Steel = 1.00q				
	Add wastage @ 5% = 0.05q				
	= 1.05q				
1007	Steel	quintal	1.05	3100.00	3255.00
2205	Carriage	tonne	0.105	47.29	4.97
	Labour:				
0116	Fitter (Grade I)	day	0.50	151.50	75.75
0103	Blacksmith 2nd class	day	0.75	141.60	106.20
0114	Beldar	day	1.00	135.25	135.25
	(A) Priming cost-(Rate vide	sqm	3.00	12.65	37.95
	item no. 13.50.3 finishing)				
9999	Sundries	L.S	20.67	1.00	20.67
	TOTAL				3635.75
	Add 1% for water charges on all except 'A'				35.98
	TOTAL				3671.77
	Add 15% for contractor's profit and				
	overheads on all except 'A"				545.07
	Cost of 1 qunital				4216.84
	Cost of 1 kg.				42.17
	Say				42.15

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				
	Materials-				
	(i) Principal rafter (T-iron)				
	100x 100x 10mm @ 15kg/m = 142.50Kg+				
	Struts (angles)40x40x6mm				
	2xl.35=2.70m @ 3.5kg/m = 9.45kg				
	= 15l.95kg+				
	Add wastage @ 5% = 7.60kg				
	= 159.55kg. = 1.60q				
1007	Principal rafter (T-iron)	quintal	1.60	3100.00	4960.00
	(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				
	2x1.84 = 3.68m @3.9kg/m = 14.35kg.				
	= 50.65kg+				
	Add wastage @ 5% = 2.53kg.				
	= 53.18kg. =0.53q				

Code	Description	Unit	Quantity	Rate	Amount
1009	Ties (flats) 50x12mm (iii) Gusset plates 10mm thick 1x0.74x0.35m = 0.259sqm.+ shoe 4x0.46x0.46 = 0.845sqm. = 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. = 0.93 sqm. Say 1.00 sqm. 1.00 sqm. @ 94.4kg/m = 94.40kg. = 180.95kg. Add wastage @ 5% = 9.05kg. = 190.00kg or 1.90q	quintal	0.53	2875.00	1523.75
1010	Gusset plates 10mm thick (iv) 16mm dia. 50mm long rivets = 56 nos.+ Add wastage @ 5 % = 2.8 nos. = 58.8 nos.	quintal	1.90	3400.00	6460.00
1020	16mm dia. 50mm long rivets (v) 20mm dia. holding down bolts 4 Nos.x460mm = 1840mm + Add wastage @ 5% = 92mm = 1932 mm	quintal	0.0684	3500.00	239.40
1221	20mm dia. Holding down bolts	quintal	0.0529	3800.00	201.02
2205	Carriage of steel-(0.160+0.053+0.091 +0.099+0.007+0.005) =0.415 tonne	tonne	0.415	47.29	19.63
	Labour-				
0116	Fitter (Grade I)	Day	2.70	151.50	409.05
0103	Blacksmith 2nd class	Day	3.60	141.60	509.76
0139	Beldars (Special)	Day	5.40	138.45	747.63
0114	Beldar	Day	3.60	135.25	486.90
0100	Bandhani	Day	0.44	138.45	60.92
	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. = 5.68 sqm.				
9999	(A) (Rate as per item 13.50.3 S.H. finishing)	sqm	5.68	12.65	71.85
	Sundries	L.S	80.73	1.00	80.73
	TOTAL				15 770.64
	Add for water charges @ 1% on all except 'A'				156.99
	TOTAL				15 927.63
	Add for contractor's profit and overheads @ 15% on all except 'A'				2 378.37
	Quantity of net steel (151.95+50.65+180.95+6.5+5.04) = 395.09				

Code	Description	Unit	Quantity	Rate	Amount
	kg = 3.95 quintal Cost for 3.95 quintal Cost of per kg. Say				 18 306.00 46.34 46.35

10.3 : Providing and fixing in position collapsible steel shutters with vertical channels 20xl0x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm 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 2.4mxl.5m = 3.6sqm. Materials- M.S. channels 18 Nos. on both sides 20xl0x2mm @ 0.56kg/m 2x18x2.4 = 86.40m+ Add wastage @ 10% = 8.64m = 95.04m				
1007	95.04m@0.56kg/m =53.22kg=0.53q 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. = 12.705Kg. SayO.l3q	quintal	0.53	3 100.00	1 643.00
1007	M.S. Tee 20mmx5mm flat iron diagonals 4 Nos. 4x32x0.5334 = 68.275m 68.275m @ 0.8kg/m = 54.62kg+ Add wastage @ 10% = 5.46kg = 60.08kg = 0.60q	quintal	0.13	3100.00	403.00
1008	Flat iron diagonals	quintal	0.60	2900.00	1 740.00
2205	Carriage-(0.053+0.013+0.060=0.126 tonne)	tonne	0.126	47.29	5.96
9999	Cost of rivets fixing hooks and washers	L.S.	269.10	1.00	269.10
9999	Cost of locking arrangements and handles	L.S.	67.34	1.00	67.34
4013	Pulleys 40mm dia.	each	10	19.00	190.00
	Priming coat- Channel - 36x0.076x2.4 = 6.57sqm.+ Tee-0.16x3.3=0.53sqm.+ Flats-0.05x68 = 3.40sqm. = 10.50sqm.				
	(A) (Rate as per item No. 13.50.3) Labour-	sqm	10.5	12.65	132.82
0116	Fitter (Grade I)	Day	3.00	151.50	454.50
0102	Blacksmith 1st class	Day	6.00	151.50	909.00
0103	Blacksmith 2nd class	Day	6.00	141.60	849.60
0123	Mason 1st class	Day	0.50	151.50	75.75
0124	Mason 2nd class	Day	0.5	141.60	70.80
0114	Beldar	Day	8.00	135.25	1082.00

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	161.46	1.00	161.46
	TOTAL				8054.33
	Add for water charges @ 1% on all except 'A				79.22
	TOTAL				8 133.55
	Add for contractor's profit and overheads @ 15%on all except'A'				1 200.11
	Cost of 3.6sqm.				9 333.66
	Cost per sqm.				2 592.68
	Say				2 592.70

10.4 : Providing and fixing 1mm thick M.S. sheet sliding-shutters with frame and diagonal braces of 40x40x6mm angle 3mm M.S. gusset plates at the junction and corners 25mm dia pulley, 40x40x6mm 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. Materials- (i) M.S. sheet lmm thick 5.76sqm. @ 7.85kg/sqm. = 45.2I6kg.+ Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 q				
1013	M.S. Sheet 2x5.76= 11.52+ (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 - 15.31kg. or 0.153q	quintal	0.497	3475.00	1727.08
1010	Gusset plates (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 = 4.9m+ Top and bottom guides 2x4.8 = 9.6m Top guide supports 7x0.8 = 2.1m = 36.0m 36m @3.5kg. per m. = 126kg.+ Add wastage® 10%= 12.6kg. = 138.6kg. or 1.39q	quintal	0.153	3400.00	520.20
1007	Angle iron (iv)Channel 25x25x6mm @ 3.05kg/m Bottom-2.4m : 2.4x3.05	quintal	1.39	3100.00	4309.00

Code	Description	Unit	Quantity	Rate	Amount
	Channel 40x40x6mm @ 5.56kg/m 0.5x5.56 = 2.78kg. = 10.1kg.+ Add wastage @ 10% = 1.101 kg. = 11.11kg. or 0.11q				
1007	Channel	quintal	0.11	3100.00	341.00
2205	Carriage-(0.0497+0.015+0.139+0.11 =0.2157 tonne)	tonne	0.216	47.29	10.21
9999	(v) Pully guide blocks including drilling holes	L.S.	269.10	1.00	269.10
0969	(vi) 25mm dia. Pully	each	8.00	18.00	144.00
9999	(vii) Handles and locking arrangements	L.S.	167.75	1.00	167.75
9999	(viii) Bolts and rivets	L.S.	269.10	1.00	269.10
9999	(ix)Cement concrete	L.S.	13.52	1.00	13.52
	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 = 17.76 Say 18.0sqm				
	(A) (Rate as per item 13.50.3 of S.H. finishing)	sqm	18.00	12.65	227.70
	Labour-				
0116	Fitter (Grade 1)	Day	2.00	151.50	303.00
0102	Blacksmith 1st class	Day	3.00	151.50	454.50
0103	Blacksmith 2nd class	Day	4.00	141.60	566.40
0114	Beldar	Day	4.00	135.25	541.00
0123	Mason 1st class	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
9999	Sundries	L.S.	161.46	1.00	161.46
	TOTAL				10042.61
	Add for water charges @ 1% on all except 'A'				98.15
	TOTAL				10140.76
	Add for contractor's profit and overheads @ 15% on all except'A'				1486.96
	Cost of 5.76 sqm.				11627.72
	Cost per sqm.				2018.70
	Say				2018.70

10.5 : Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm 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 a double leaf door of size 2.4mx2.4m=5.76sqm. Materials- (i) M.S. sheet lmm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 q				
1013	M.S. Sheet 2x5.76= 11.52+ (ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+	quintal	0.497	3 475.00	1727.08

Code	Description	Unit	Quantity	Rate	Amount
	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 = 15.31kg. or 0.153q				
1013	Gusset plates (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 =26.73m 26.73m @ 3.5kg. per m. = 93.56kg=0.936q	quintal	0.153	3 475.00	531.67
1007	Angle iron	quintal	0.936	3 100.00	2 901.60
2205	Carriage-(0.0497+0.0153+0.0936 tonne) = 0.1586 t	tonne	0.1586	47.29	7.50
1036	(iv) Pintles including welded pin	each	4.00	28.00	112.00
1222	M.S. cleats with bolts an nuts to rest on pintles	each	4.00	75.00	300.00
1019	Hooks	each	2.00	22.00	44.00
9999	Locking arrangements and handles	L.S.	167.70	1.00	167.70
9999	Rivets	L.S.	269.10	1.00	269.10
	Priming coat- M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89				
	(A) Rate As per items No. 13.50.3.	sqm	15.41	12.65	194.94
	Labour-				
0 116	Fitter (Grade I)	Day	2.00	151.50	303.00
0102	Blacksmith 1st class	Day	3.00	151.50	454.50
0103	Blacksmith 2nd class	Day	4.00	141.60	566.40
0123	Mason 1st Class	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	5.00	135.25	676.25
9999	Sundries	L.S.	161.46	1.43	161.46
	TOTAL				8 434.79
	Add for water charges @ 1% on all except 'A'				82.40
	TOTAL				8517.19
	Add for contractor's profit and overheads @ 15% on all except 'A'				1 248.34 9 765.53
	Cost of 5.76 sqm.				1695.40
	Cost per sqm.				1695.40

10.5 : Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm 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 a double leaf door of size 2.4mx2.4m=5.76sqm. Materials-				

Code	Description	Unit	Quantity	Rate	Amount
	(i) M.S. sheet lmm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 q				
1013	M.S. Sheet 2x5.76= 11.52+	quintal	0.497	3 475.00	1 727.08
	(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 = 15.31kg. or 0.153q				
1013	Gusset plates	quintal	0.153	3 475.00	531.67
	(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 =26.73m 26.73m @ 3.5kg. per m. = 93.56kg=0.936q				
1007	Angle iron	quintal	0.936	3 100.00	2 901.60
2205	Carriage-(0.0497+0.0153+0.0936 tonne) = 0.1586 t	tonne	0.1586	47.29	7.50
1036	(iv) Pintles including welded pin	each	4.00	28.00	112.00
1222	M.S. cleats with bolts an nuts to rest on pintles	each	4.00	75.00	300.00
1019	Hooks	each	2.00	22.00	44.00
9999	Locking arrangements and handles	L.S.	167.70	1.00	167.70
9999	Rivets	L.S.	269.10	1.00	269.10
	Priming coat- M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89				
	(A) Rate As per items No. 13.50.3.	sqm	15.41	12.65	194.94
	Labour-				
0 116	Fitter (Grade I)	Day	2.00	151.50	303.00
0102	Blacksmith 1st class	Day	3.00	151.50	454.50
0103	Blacksmith 2nd class	Day	4.00	141.60	566.40
0123	Mason 1st Class	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	5.00	135.25	676.25
9999	Sundries	L.S.	161.46	1.43	161.46
	TOTAL				8 434.79
	Add for water charges @ 1% on all except ‘A’				82.40
	TOTAL				8517.19
	Add for contractor’s profit and overheads @ 15% on all except ‘A’				1 248.34 9 765.53
	Cost of 5.76 sqm.				1695.40
	Cost per sqm.				1695.40

10.5 : Providing and fixing lmm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.

10.5.2 : Using flats 30x6mm for diagonal braces and central cross piece.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a double leaf door of size 2.40m x 2.40m= 5.76 sqm Materials- (i) M.S. sheet lmm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg. Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 q				
1013	M.S. Sheet (ii) Gussets plates-3.00mm thick vide (ii) in item 10.4 = 0.5910sqm. at mid height = 4x0.0528 = 0.2112sqm. = 0.8022sqm. Add wastage @ 10% = 0.0802sqm. =0.8824sqm. @ 23.55 kg/sqm =20.78 kg = 0.2078 qtl	quintal	0.497	3 475.00	1727.08
1010	Gussets plates-3.00mm thick (iii) Angle iron:40x40x6mm @3.5kg/m Sides-4x2.40 = 9.6m Top & bottom-4xl.20=4.8m = 14.40m Add wastage @ 10% = 1.44m = 15.84m 15.84m @ 3.5kg. per m..= 55.44kg =0.554qtl	quintal	0.2078	3 400.00	706.52
1007	Angle iron (iv) Flats 30x6mm @1.4kg/m 4x2.45=9.80m+ 2xl.20=2.40m = 12.20m+ Add wastage @ 10% = 1.22m = 13.42m 13.42m @ 1.4kg. per m. = 18.788kg. = 0.188q	quintal	0.554	3100.00	1717.40
1008	Flats	quintal	0.188	2 900.00	545.20
2205	Carriage of (i) (ii) and (iv)-0.0497+0.0208+0.0554+0.0188=0.1447 tonne	tonne	0.1447	47.29	6.84
1036	Pintles including welded pin	each	4.00	28.00	112.00
1222	M.S. Cleats with bolts and nuts to rest on pintles	each	4.00	75.00	300.00
1019	Hooks	each	2.0	22.00	44.00
9999	Locking arrangements and handles	L.S.	167.70	1.00	167.70
9999	Rivets	L.S.	269.10	1.00	269.10
	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 = 14.70sqm.				
	(A) Rates as per Item No. 13.50.3	sqm	14.70	12.65	185.96
	Labour-				
0116	Fitter (Grade I)	Day	2.00	151.50	303.00
0102	Blacksmith 1st class	Day	3.00	151.50	454.50
0103	Blacksmith 2nd class	Day	4.00	141.60	566.40

Code	Description	Unit	Quantity	Rate	Amount
0123	Mason 1st Class	Day	0.06	151.50	9.09
0124	Mason 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	5.00	135.25	676.25
9999	Sundries	L.S.	161.46	1.00	161.46
	TOTAL				7 961.00
	Add for water charges @ 1% on all except 'A'				77.75
	TOTAL				
	Add for contractor's profit and overheads @				8038.75
	15% on all except 'A'				1177.92
	Cost of 5.76 sqm.				9216.67
	Cost per sqm.				1 600.12
	Say				1600.10

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 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.

10.6.1: 80xl.25mm M.S. laths with 1.25 mm thick top cover.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a shutter of size 3mx2.5m = 7.5sqm.				
	Materials-				
0 973	Cost of Rolling shutter	sqm	7.50	767.00	5752.50
0 974	Top Cover	metre	2.50	400.00	1000.00
0 975	Coiled type spring	each	1.00	170.00	170.00
9999	Carriage	L.S.	53.82	1.00	53.82
	Labour-				
0116	Fitter (Grade 1)	Day	2.55	151.50	386.32
0114	Beldar	Day	2.55	135.25	344.89
0123	Mason 1st Class	Day	0.12	151.50	18.18
0124	Mason 2nd class	Day	0.12	141.60	16.99
9999	Sundries	L.S.	60.58	1.00	60.58
	TOTAL				7803.28
	Add for water charges @ 1 %				78.03
	TOTAL				7881.31
	Add for contractor's profit and overheads @ 15%				1182.20
	Cost of 7.5sqm.				9063.51
	Cost per sqm.				1208.47
	Say				1208.45

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 27.5cm long wire springs grade No.2 and M.S. top coypr of required thickness for rolling shutters.

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 shutter of size 3mx2.5m = 7.5sqm.				
	Materials-				
7045	Cost of Rolling shutter	sqm	7.50	615.00	4 612.50
7047	Top Cover	metre	2.50	228.00	570.00
0975	Coiled type spring	each	1.00	170.00	170.00
9999	Carriage	L.S.	53.82	1.00	53.82
	Labour-				
0116	Fitter (Grade I)	Day	2.55	151.50	386.32
0114	Beldar	Day	2.55	135.25	344.89
0 123	Mason 1st Class	Day	0.12	151.50	18.18
0 124	Mason 2nd class	Day	0.12	141.60	16.99
9999	Sundries	L.S.	60.58	1.00	60.58
	TOTAL				6 233.28
	Add for water charges @ 1%				62.33
	TOTAL				6 295.61
	Add for contractor's profit and overheads @ 15%				944.34
	Cost of 7.5sqm.				7 239.95
	Cost per sqm.				965.33
	Say				965.35

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 27.5cm long wire springs grade No.2 and M.S. top'cover of required thickness for rolling shutters.

10.6.3 : 80x0.90 mm M.S. laths with 0.90 mm thick top cover.

Code	Description	Unit	Quantity	Rate	Amount
	Cost of Rolling shutter Details of cost for a shutter of size 3mx2.5m = 7.5sqm.				
	Materials-				
7044	Cost of Rolling shutter	sqm	7.50	576.00	4320.00
7046	Top Cover	metre	2.50	205.00	512.50
0975	Coiled type spring	each	1.00	170.00	170.00
9999	Carriage	L.S.	60.58	1.00	60.58
	Labour-				
0116	Fitter (Grade I)	Day	2.55	151.50	386.32
0114	Beldar	Day	2.55	135.25	344.89
0123	Mason 1st Class	Day	0.12	151.50	18.18
0124	Mason 2nd class	Day	0.12	141.60	16.99
9999	Sundries	L.S.	60.58	1.00	60.58
	TOTAL				5883.28

Code	Description	Unit	Quantity	Rate	Amount
	Add for water charges @ 1 %				58.83
	TOTAL				5942.11
	Add for contractor's profit and overheads @ 15%				891.32
	Cost of 7.5sqm.				6833.43
	Cost per sqm.				911.12
	Say				911.10

10.7 : Providing and fixing ball bearing for rolling shutters

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
0976	Ball bearing	each	1.00	280.00	280.00
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				306.91
	Add for water charges @ I %				3.07
	TOTAL				309.98
	Add for contractor's profit and overheads@ 15%				46.50
	Cost of 1 no.				356.48
	Say				356.50

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.				
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and upto 16.80 sq.m area of door	sqm	1.00	400.00	400.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				413.52
	Add for water charges @ 1 %				4.14
	TOTAL				417.66
	Add for contractor's profit and overheads @ 15%				62.65
	Cost of 1 sqm.				480.31
	Say				480.30

10.8: Extra for providing mechanical device chain and crank operation for operating rolling shutters.

10.8.2: Exceeding 16.80 sqm in area.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one sqm.				
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16,80 sq.m area of door	sqm	1	450.00	450.00
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				463.52
	Add for water charges @ 1%				4.64
	TOTAL				468.16

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15%				70.22
	Cost of 1 sqm.				538.38
	Say				538.40

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.				
	Materials-				
7068	Extra for providing grilled rolling shutter manufactured out of 8mm dia. M.S. bar instead of laths	sqm	1.50	185.00	277.50
	TOTAL				277.50
	Add for water charges @ 1 %				2.78
	TOTAL				280.28
	Add for contractor's profit and overheads @ 15%				42.04
	Cost of 1.5sqm.				322.32
	Cost per sqm.				214.88
	Say				214.90

10.10: Fixing standard steel glazed doors, windows and ventilators in walls with 15x3mm lugs 10 cm long embedded in cement concrete blocks 15xl0xl0cm of 1:3:6 (I cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, 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 with lugs, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg)				
	Materials-				
	(A) Cement concrete blocks 15x10x10cm = 0.009 cum (Rate as per item No. 4.2.5 of S.H. C.C.)	cum	0.009	3112.70	28.01
	Labour-				
0102	Blacksmith 1st class	Day	0.17	151.50	25.76
0123	Mason 1st Class	Day	0.08	151.50	12.12
0124	Mason 2nd class	Day	0.08	141.60	11.33
0114	Beldar	Day	0.50	135.25	67.62
0119	Glazier	Day	0.17	141.60	24.07
9999	Putty and sundries	L.S.	134.55	1.00	134.55
	TOTAL				303.46
	Add for water charges @ 1% on all except 'A'				2.75
	TOTAL				306.21

Code	Description	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads @ 15% on all except 'A'				41.73
	Cost of 15 kg				347.94
	Cost per kg				23.20
	Say				23.20

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 KIIB and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and rivetted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x 10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots complete as per approved design.

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).				
	Materials-				
4014	Readymade steel door with necessary hinges, lugs and glazing clips but excluding other fittings and their fixing to hold glass panes etc. 2.075xl.l75m = 2.44 sqm.	sqm	2.44	1 406.00	3 430.64
2406	Float glass panes 4 mm thick (Area 80% of opening	sqm	1.95	248.00	483.60
9999	Carriage of steel door and glass panes	L.S.	80.73	1.00	80.73
	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				
	(A)Rate as per item no 10.10 of SH: Steel work	kg	30.00	23.20	696.00
	(B)Apply steel primer (2.44x 1.00 for both sides =2.44 sqm (Rate as per code No. 13.50.3 of SH finishing)	sqm	2.44	12.65	30.87
	TOTAL				4721.84
	Add for water charges @ 1% on all items except (A+B)				39.95
	TOTAL				4761.79
	Add for contractor's profit and overhead @ 15% on all except (A+B)				605.24
	Cost for 30 kg.				5367.03
	Cost of 1 kg.				178.90
	Say				178.90

10.12: Extra for providing and fixing steel beading of 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	Cost of 1 metre beading	metre	1.00	15.00	15.00
	Applying priming coat	L.S.	0.46	1.00	0.46
	Fixing charges	L.S.	3.01	1.00	3.01
	TOTAL				18.47
	Add water charges @ 1%				0.18
	TOTAL				18.65
	Add contractor's profit and				2.80
	overhead @ 15%				21.45
	say				21.45

10.13: Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs, 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as requird including fixing.of necessary butt hinges and screws and applying a priming coat of approved steel primer.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 17.5Kg.				
	Materials				
	Tee iron 40x40x6mm = 2m+2m+lm = 5 metres				
	5 metres @3.5Kg/m = 17.5kg.+				
	Add wastage @ 5% = 0.87Kg.				
	= 18.37 kg. Say 0.18 qunital				
1007	Tee iron	quintal	0.18	3 100.00	558.00
	M.S. bars 10mm = lxlm = 1 metre				
	1 metre @ 0.60kg/m = 0.60Kg.+				
	Add wastage @ 5% = 0.03Kg.				
	= 0.63 Kg. Say = 0.006 qunital				
1002	M.S. bars	quintal	0.006	3 100.00	18.60
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ O.35kg/m = 0.21 Kg+				
	Add wastage @ 5% = 0.01 Kg.				
	= 0.22 kg.				
1008	M.S. fiat	quintal	0.002	2 900.00	5.80
	Cement concrete block 1:3:6-				
	6x15x10x10cm= 0.009 cum				
	(A)(Rate as per item no.4.2.5 of SH:4)	cum	0.009	3 112.70	28.01
0 595	Butt hinges-100x58x 1.90mm	10 Nos	6.00	54.00	32.40
9999	For screws and nuts and bolts	L.S.	35.88	1.00	35.88
9999	For applying steel primer	L.S.	17.94	1.00	17.94
9999	Carriage of material	L.S.	5.33	1.00	5.33
	Labour-				
0103	Blacksmith 2nd class	Day	0.10	141.60	14.16
0116	Fitter (Grade 1)	Day	0.15	151.50	22.72
0114	Beldar	Day	0.20	135.25	27.05

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	8.97	1.00	8.97
	TOTAL				774.86
	Add for water charges @ 1% on all except 'A'				7.47
	TOTAL				782.33
	Add for contractor's profit and overheads @ 15% on all except'A'				113.15
	Cost for 17.5 Kg.				895.48
	Cost for 1 Kg.				51.17
	Say				51.15

10.14 Providing and fixing pressed steel door frames confirming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm 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

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 metre				
	Materials-				
4006	Pressed steel frame =2+2+lm=5m	metre	5.00	170.00	850.00
7027	Butt hinges-100x58x1.90mm	10 Nos	6.00	80.00	48:00
1007	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q	quintal	0.03	3100.00	93.00
9999	Carriage of material	L.S.	5.33	1.00	5.33
	Labour-				
0116	Fitter (Grade I)	Day	0.15	151.50	22.72
0114	Beldar	Day	0.20	135.25	27.05
9999	Sundries	L.S.	8.97	1.00	8.97
	Steel primer-500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm				
	(A) Rate as per item no I3.50.3 of SH : Finishing	sqm	2.69	12.65	34.03
	TOTAL				1 089.10
	Add for water charges @ 1% on all except A				10.55
	TOTAL				1 099.65
	Add for contractor's profit and overheads @ 15% on all except A				159.84
	Cost for 5m				1 259.49
	Cost for 1 m				251.90
	Say				251.90

10.14 Providing and fixing pressed steel door frames confirming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm 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:

10.14.2 Profile C

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 metre				
	Materials-				
4007	Pressed steel frame =2+2+lm=5m	metre	5.00	187.00	935.00
7027	Butt hinges-100x58x1.90mm	10 Nos	6.00	80.00	48.00
1007	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q	quintal	0.03	3100.00	93.00
9999	Carriage of material	L.S.	5.33	1.00	5.33
	Labour-				
0116	Fitter (Grade I)	Day	0.15	151.50	22.72
0114	Beldar	Day	0.2	135.25	27.05
9999	Sundries	L.S.	8.97	1.00	8.97
	Steel primer-500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				
	(A) Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	12.65	34.03
	TOTAL				1174.10
	Add for water charges @ 1% on all except 'A'				11.40
	TOTAL				1185.50
	Add for contractor's profit and overheads @ 15% on all except 'A'				172.72
	Cost for 5 m				1358.22
	Cost for 1 m				271.64
	Say				271.65

10.14 Providing and fixing pressed steel door frames confirming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of I.25tnm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm 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:

10.14.3 Profile E

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 metre				
	Materials-				
4008	Pressed steel frame =2+2+lm=5m	metre	5.00	214.00	1 070.00
7027	Butt hinges-100x58x1.90mm	10 Nos	6.00	80.00	48.00
1007	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q	quintal	0.03	3 100.00	93.00
9999	Carriage of material	L.S.	5.33	1.00	5.33
	Labour-				
0116	Fitter (Grade I)	Day	0.15	151.50	22.72
0114	Beldar	Day	0.20	135.25	27.05

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	8.97	1.00	8.97
	Steel primer-500x2(2x 1.2+2x6.0+1x12.50cm)=2.69 sqm				
	(A)Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	12.65	34.03
	TOTAL				1309.10
	Add for water charges @ 1% on all except 'A'				12.75
	TOTAL				1321.85
	Add for contractor's profit and overheads @ 15% on all except 'A'				193.17
	Cost for 5m				1515.02
	Cost for 1 m				303.00
	Say				

10.15 Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with L-Type section made of 1.60mm thick M.S. Sheet, joints mitred and welded and grinded finish,with profiles of required size with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 7.13Kg. Materials				
	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.				
4011	Total = 7.491 kg Say 7.49 kg	kg	7.49	53.00	396.97
	M.S. bars 10mm = lxlm = 1 metre				
	1 metre @ 0.60kg/m = 0.60Kg.				
	Add wastage @ 5% = 0.03 Kg.				
	= 0.63 Kg. Say = 0.006 qunital				
1002	M.S. bars	quintal	0.006	3100.00	18.60
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ 0.35kg/m = 0.21 Kg				
	Add wastage @ 5% = 0.01 Kg. "				
	= 0.22 kg.				
1008	M.S. flat	quintal	0.002	2900.00	5.80
	Cement concrete block 1:3:6- 6x15x10x10cm= 0.009 cum				
	(A)(Rate as per item no 4.2.5 of SH:4)	cum	0.009	3112.70	28.01
595	Butt hinges-100x58x1.90mm	10 Nos	6	54.00	32.40
9999	For screws and nuts and bolts	L.S.	35.88	1.00	35.88
9999	For applying steel primer	L.S.	17.94	1.00	17.94
9999	Carriage of material	L.S.	5.33	1.00	5.33
	Labour-				
0103	Blacksmith 2nd class	Day	0.04	141.60	5.66

Code	Description	Unit	Quantity	Rate	Amount
0116	Fitter (Grade I)	Day	0.06	151.50	9.09
0114	Beldar	Day	0.08	135.25	10.82
9999	Sundries	L.S.	3.64	1.00	3.64
	TOTAL				570.14
	Add for water charges @ 1% on all except 'A'				5.42
	TOTAL				575.56
	Add for contractor's profit and overheads @ 15% on all except 'A'				82.13
	Cost for 7.13 Kg.				657.69
	Cost for 1 Kg.				92.24
	Say				92.25

10.16 Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including 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. Materials- 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. = 124.90Kg. say 125 kg				
4009	Hot finished welded tubes	kilogram	125 .00	38.00	4 750.00
2205	Carriage of tubes	tonne	0.125	47.29	5.91
	Priming coat 50mm dia. tube 16.60x0.157m = 1.61 sqm. 40mm dia. tube 9.50x0.125m = 1.91 sqm. = 2.80 sqm.				
	(A)(Rate as per item 13.50.3 of S.H. finishing)	sqm	2.80	12.65	35.42
	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties:- 2x22/7x6.03=37.90cm.+ Members:-2x4x2x22/7x4.83=242.87cm = 356.57cm say 357cm				
1215	Welding	cm	357.00	1.00	357.00
	Labour- For cutting, assembling & erection				
0102	Blacksmith 1st class	Day	1.50	151.50	227.25
0100	Bandhani	Day	0.75	138.45	103.84
0114	Beldar	Day	5.50	135.25	743.88
9999	Sundries	L.S.	80.73	1.00	80.73
	TOTAL				6 304.03
	Add for water charges @ 1% on all except 'A'				62.69

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				6 366.72
	Add for contractor's profit and overheads @ 15% on all except 'A'				949.70
	Cost for 119 Kg.				7 316.42
	Cost for 1 Kg.				61.488
	Say				61.50

10.16 Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.

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.				
	Materials				
	50mm dia. tube				
	Tie beam- I x 8.0m = 8.00m +				
	Principal rafter 2x4.30m = 8.60m = 16.60m				
	16.60m @ 5.10kg./ 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.				
	= 124.90kg. say 125 Kg.				
4010	Mild steel tubes hot finished seamless type	kilogram	125.00	42.00	5 250.00
2205	Carriage of tubes	tonne	0.125	47.29	5.91
	Priming coat				
	50mm dia. tube 16.60x0.157 m = 1.61 sqm.				
	40mm dia. tube 9.50x 10125m = 1.91 sqm.				
	=2.80 sqm.				
	(A) Rate as per item no 13.50.3 of SH : Finishing	sqm	2.80	12.65	35.42
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties :- 2x22/7x6.03=37.90cm.+				
	Members :- 2x4x2x22/7x4.83 = 242.87cm				
	= 356.57 cm say 357 cm				
1215	Welding	cm	357.00	1.00	357.00
	LABOUR				
0102	Blacksmith 1st class	Day	1.50	151.50	227.25
0100	Bandhani	Day	0.75	138.45	103.84
0114	Beldar	Day	5.50	135.25	743.88
9999	Sundries	L.S.	80.73	1.00	80.73
	TOTAL				6804.03
	Add for water charges @ 1% on all except 'A'				67.69
	TOTAL				6871.72
	Add for contractor's profit and overheads @ 15% on all except 'A'				1025.45
	Cost for 119 Kg.				7897.17
	Cost for 1 Kg.				66.36
	Say				66.35

10.16 Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.

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. Materials- 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. = 124.90Kg. say 125 kg.				
4011	Electric resistance or Induction on butt welded tubes	Kilogram	125.00	53.00	6 625.00
2205	Carriage of tubes	tonne	0.125	47.29	5.91
	Priming coat 50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. =2.80 sqm.				
	(A) Rate as per item no 13.50.3 of SH : Finishing	sqm	2.80	12.65	35.42
	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties :- 2x22/7x6.03=37.90cm.+ Members :- 2x4x2x22/7x4.83 = 242.87cm = 356.57 cm say 357 cm				
1215	Welding	cm	357	1.00	357.00
	LABOUR				
0102	Blacksmith 1st class	Day	1.50	151.50	227.25
0100	Bandhani	Day	0.75	138.45	103.84
0114	Beldar	Day	5.50	135.25	743.88
9999	Sundries	L.S.	80.73	1.00	80.73
	TOTAL				8 179.03
	Add for water charges @ 1% on all except 'A'				81.44
	TOTAL				8 260.47
	Add for contractor's profit and overheads @ 15% on all except 'A'				1 233.76
	Cost for 119 Kg.				9 494.23
	Cost for 1 Kg.				79.78
	Say				79.80

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, 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 Materiats- 16mm dia. M.S. bar 1m @ 1.58 kg/m				

Code	Description	Unit	Quantity	Rate	Amount
	1x1.58 = 1.58Kg+				
	Add wastage @ 5% = 0.08 Kg.				
	= 1.66 Kg.				
	Say 1.70kg. or 0.017q				
1003	M.S. bar	quintal	0.017	3 050.00	51.85
	Labour-				
0103	Blacksmith 2nd class	Day	0.04	141.60	5.66
0114	Beldar	Day	0.04	135.25	5.41
9999	Sundries (Carriage, fixing and painting etc.)	L.S.	1.82	1.00	1.82
	TOTAL				64.74
	Add for water charges @ 1%				0.65
	TOTAL				65.39
	Add for contractor's profit and overheads @ 15%				9.81
	Cost for I clamp				75.20
	Say				75.20

10.18 Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1:5mm 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 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing,

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of one box clamp				
	Materials-				
4012	Circular C.I. Box including bottom and top lids	each	1.00	35.00	35.00
	12mm dia. M.S. bar 80cm @ 0.9kg/m - 0.72kg+				
	Add wastage @ 5% - 0.036				
1002	0.756 kg. Say 0.008 q	quintal	0.008	3100.00	24.80
	Labour-				
0103	Blacksmith 2nd class	Day	0.03	141.50	4.25
0114	Beldar	Day	0.03	135.50	4.06
9999	Sundries (Carriage, fixing and painting etc.)	L.S.	1.82	1.00	1.82
	TOTAL				69.93
	Add for water charges @ 1%				0.70
	TOTAL				70.63
	Add for contractor's profit and overheads @ 15%				10.59
	Cost for 1 box clamp				81.22
	Say				81.20

10.19 Providing and fixing M.S. round holding down with nuts and wahser plates completes.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for one bolt 16mm dia. and 1200mm long.				
	Materials-				
1035	l .2m @ 1.58kg/m = 1.895 kg = 0.019q	quintal	0.019	4300.00	81.70
1010	Plate-100xl00x6mm @ 47kg/sqm. Wt. = 0.47kg. = 0.005q	quintal	0.005	3400.00	17.00
	Labour-				
0103	Blacksmith 2nd class	day	0.03	141.60	4.25
9999	Carriage and labour for fixing	L.S	4.55	1.00	4.55
	TOTAL				107.50
	Add for water charges @ 1 %				1.08
	TOTAL				108.58
	Add for contractor's profit and overheads @ 15%				16.29
	Costof0.024q				124.87
	Cost of 1 kg.				52.03
	Say				52.05

10. 20 Providing and fixing bolts including nuts and washers complete.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 0.10q of nuts and washers				
	Materials-				
1034	Bolts, nuts and washers	quintal	0.10	4300.00	430.00
2205	Carriage	tonne	0.01	47.29	0.47
	Labour-				
0103	Blacksmith 2nd class	day	0.38	141.60	53.81
0114	Beldar	day	0.38	135.25	51.40
9999	Sundries	L.S	4.55	1.00	4.55
	TOTAL				40.23
	Add for water charges @ 1 %				5.40
	TOTAL				545.63
	Add for contractor's profit and overheads @ 15%				81.84
	Cost of 0.l0q				627.47
	Cost of 1 kg.				62.75
	Say				62.75

10.21 Providing and fixing M.S. rivets of sizes in position

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 0.10q of rivets				
	Materials-				
1020	Rivets				
2205	Carriage	quintal	0.10	3500.00	350.00
	Labour-	tonne	0.01	47.29	0.47
0116	Fitter (Grade I)				
0139	Beldar special	day	0.83	151.50	125.74
9999	Sundries	day	0.83	138.45	114.91
	TOTAL	L.S.	10.79	1.00	10.79
	Add for water charges @ 1 %				601.91
	TOTAL				6.02
	Add for contractor's profit and overheads				607.93
	@				91.19
	15%				
	Costof 0.l0q				699.12
	Cost of 1 kg.				69.91
	Say				69.90

10.22 Welding by gas or electric plant including transportion of plant at site etc. complete.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for one cm.				
1214	Welding by gas electric plant including transportation of welding plant at site etc. complete	cm	1.00	1.00	1.00
9999	Sundries	L.S.	0.26	1.00	0.26
	TOTAL				1.26
	Add for water charges @ 1 %				0.01
	TOTAL				1.27
	Add for contractor's profit and overheads @ 15%				0.19
	Cost of 1 cm.				1.46
	Say				1.45

10.23 Providing and fixing bright finished brass casement window fasterners or peg stays to windows/ventilators with necessary welding and machine screws etc. complete.

Code	Discription	Unit	Quantity	Rate	Amount
	Details for ten (10 x 0.20 = 2.00 kg)				
	Materials-				
0423	Brass casement window fastener	each	10.00	26.00	260.00
9999	Fixing charges including welding and materials etc.	L.S	125.58	1.00	125.58
9999	Carriage of materials	L.S	1.00	3.64	3.64
	TOTAL				389.22
	Add for water charges @ 1 %				3.89
	TOTAL				393.11
	Add for contractor's profit and overheads @ 15%				58.97
	Cost of 2.00kg window fasteners				452.08
	Cost of 1 kg window fastener				226.04
	Say				226.05

10.24 Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete.

Code	Discription	Unit	Quantity	Rate	Amount
	Details for ten				
	Materials-				
0428	Brass casement spring catch	10 Nos.	10.00	109.00	109.00
9999	Fixing charges including welding and materials etc.	L.S	125.58	1.00	125.58
9999	Carriage of materials	L.S	3.64	1.00	3.64
	TOTAL				238.22
	Add for water charges @ 1%				2.38
	TOTAL				240.60
	Add for contractor's profit and overheads @15%				36.09
	Cost of 10 window spring catch				276.69
	Cost of 1 window catch				27.67
	Say				27.65

10.25 Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.

10.25.1 In stringers, treads, landing etc. of stair cses including use of chequered plate wherever required, all complete.

Code	Discription	Unit	Quantity	Rate	Amount
	Consider a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide.				
	Materials-				
	(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 = 3.161q				
1007	Unequal angles	quintal	3.161	3100.00	9799.10
	(iii) plate for tread 8mm thick				
	14x7.5= 105.00kg+				
	Add wastage @ 5% = 5.25kg.				
	= 110.25kg. Say 1.103q				
1010	Plate for tread	quintal	1.103	3400.00	3750.20
	(iv) G. pipe for railing 40mm				
	2xl2.69m = 25.38m+				
	Add wastage @ 5% = 1.27m = 26.65m				
1549	G.I. Pipe for railing	metre	26.65	160.00	4264.00
	(v) M.S. round bars 16mm dia.				
	15x0.75x2xl.58 = 35.55kg.+				
	Add wastage @ 5% = 1.78kg.				
	= 37.33 Kg. Say O.373q				
1003	M.S. round bars	quintal	0.373	3050.00	1137.65
	Carriage of steel				
2205	(3.I61 + 1.103+0.373)=4.637q = 0.4637 tonne	tonne	0.4637	47.29	21.93
2271	Carriage of g.I. Pipe approx. wt.	tonne	0.0991	47.29	4.69

Code	Discription	Unit	Quantity	Rate	Amount
	3.72x26.65=99.14kg.				
1215	Welding charge (electric) 23.20m	cm	2320.00	1.00	1220.00
	Labour:				
0102	Blacksmith 1st class	day	1.85	151.50	280.28
0114	Beldar	day	1.25	135.25	169.06
0100	Bandhani	day	0.60	138.45	83.07
	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.)				
	(A) (Rate as per item no. 13.50.3)	sqm	48.29	12.65	610.87
9999	Sundries	L.S.	1.00	110.89	110.89
	TOTAL				22551.74
	Add for water charges @ 1% on all except 'A'				219.41
	TOTAL				22771.15
	Add for contractor's profit and overheads @ 15% on all except 'A'				3324.04
	Cost of 5.331 qunital				26095.19
	Cost per kg				48.95
	say				48.95

10.25 Steel work welded in built up section / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer usin'g structural steel etc. as required. 10.25.2 In grating, frames, guard bar, ladder, railings, brackets, gates and similar works.

10.25.2 In grating, frames, guard bar, railing, brackets, gates and similar works.

Code	Description	Unit	Quantity	Rate	Amount
	Details of Imxlm framed guard bar grating. (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.	quintal	0.145	2900.00	420.50
1008	M.S. Flat (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	M.S. bar	quintal	0.084	3100.00	260.40
2205	Carriage of steel	tonne	0.0229	47.29	1.08
1215	Welding charges (electric) 60cm	Cm	60.00	1.00	60.00
	Labour				
0102	Blacksmith 1st class	Day	0.70	151.50	106.05
0114	Beldar	Day	0.50	135.25	67.62
0100	Bandhani	Day	0.25	138.45	34.61
	Applying priming coat 0.65 sqm				
'A'	(Rate as per item no. 13.50.3	Sqm	0.60	12.65	7.59
9999	Sundries	L.S.	4.55	1.00	4.55
	Total				962.40
	Add for water charges @ 1% on all except 'A'				9.55
	Total				971.95
	Add for contractor's profit and overheads @ 15% on all except 'A'				144.65
	Costof0.218qunital				1116.60
	Cost per kg				51.22
	say				51.20

10.26 Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.

10.26.1 M.S. tube

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m				
	Materials-				
4009	M.S. tube 40mm nominal bore (medium) = 5.40m @ 3.6lkg/m= 19.49kg Add wastage @ 5% =0.097 Total = 20.46 kg.	kilogram	20.46	38.00	777.48
2205	Carriage of tube	tonne	0.0205	47.29	0.97
	Priming coat 40mm dia.Tube-5.4x22/7x0.0483= 0.82 sqm				
(A)	Rate as per item no 13.50.3 SH Finishing	sqm	0.82	12.65	10.37
	Welding charges (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.00	1.00	72.00
	Labour for cutting assembling & erection				
0102	Blacksmith 1st class	day	0.24	1515.50	36.36
0114	Beldar	day	0.90	135.25	121.72
0100	Bandhani	day	0.12	138.45	16.61
9999	Sundries	L.S.	12.48	1.00	12.48
	TOTAL				1047.99
	Add for water charges @ 1% on all except 'A'				10.38
	TOTAL				1058.37
	Add for contractor's profit and overheads @ 15% on all except'A'				155.64
	Cost of 19.49				1214.01
	Cost per kg.				62.29
	Say				62.30

10.26 Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.

10.26.2 E.R.W. tubes.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m				
	Materials-				
4011	E.R.W. tube 40mm nominal bore = 5.40m @ 3.28kg/m= 17.31kg Add wastage @ 5% = 0.88 kg Total = 18.59 kg	kilogram	18.59	53.00	985.20
2205	Carriage of tube	tonne	0.0186	47.29	0.88
	Priming coat 40mm dia.Tube-5.4x22/7x0.0483 = 0.82 sqm				
(A)	Rate as per item no 13.50.3 SH Finishing	sqm	0.82	12.65	10.37
1215	Welding charges (joints of hand rail and	cm	72.00	1.00	72.00

Code	Discription	Unit	Quantity	Rate	Amount
	ballustards) 18x4x1.00 = 72cm				
	Labour for cutting assembling & erection				
0102	Blacksmith 1st class	day	0.24	151.50	36.36
0114	Beldar	day	0.90	135.25	121.72
0100	Bandhani	day	0.12	138.45	16.61
9999	Sundries	L.S.	12.48	1.00	12.48
	TOTAL				1255.69
	Add for water charges @ 1% on all except 'A'				12.45
	TOTAL				1268.14
	Add for contractor's profit and overheads @ 15% on all except 'A'				188.67
	Cost of 17.71 Kg.				1456.81
	Cost per kg.				82.23
	Say				82.25

10.26 Providing and fixing hand rail of approved size by selding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.

10.26.3 G.I.pipes.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail =5.40m				
	Materials-				
1549	G.I. pipe 40mm nominal bore = 5.40m	metre	5.67	160.00	907.20
	Add wastage @ 5% = 0.27m				
	Total = 5.67m				
2271	Carriage of pipe (5.67m @ 3.72 kg/m = 21.09kg)	tonne	0.0211	47.29	1.00
	Priming coat 40mm				
	dia.Tube-5.4x22/7x0.0483 = 0.82 sqm				
(A)	Rate as per item no 13.50.3 SH Finishing	sqm	0.82	12.65	10.37
1215	Welding charges (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.00	1.00	72.00
	Labour for cutting assembling & erection				
0102	Blacksmith 1st class	day	0.24	151.50	36.36
0114	Beldar	day	0.90	135.25	121.72
0100	Bandhani	day	0.12	138.45	16.61
9999	Sundries	L.S.	12.48	1.00	12.48
	TOTAL				1177.74
	Add for water charges @ 1% on all except 'A'				11.67
	TOTAL				1189.41
	Add for contractor's profit and overheads @ 15 % on all except'A'				176.86
	Cost of 20.09 Kg.				1366.27
	Cost per kg.				68.01
	Say				68.00

SUB HEAD : 11.0

FLOORING

11.1 Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S. bricks:

11.1.1 1:4 (1 cement: 4 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
2602	Bricks of class designation 75	1000 Nos	565.00	1900.00	1073.50
2201	Carriage of bricks	1000 Nos	565.00	141.88	80.16
	Cement mortar 1:4	cum	0.434	2578.45	1119.05
	(Rate asper item No.3.9)				
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.02	47.29	0.95
	Labour:-				
0124	Mason 2nd class	Day	1.08	141.60	152.93
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	1.62	135.25	219.10
0101	Bhisti	Day	0.27	138.45	37.38
	TOTAL				2806.88
	Add 1% for water charges				28.07
	TOTAL				2834.95
	Add 15% for contractor's profit and overheads				425.24
	Cost of 10 sqm.				3 260.19
	Cost of 1 sqm.				326.02
	Say				326.00

11.1 Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S. bricks:

11.1.2 1:6 (1 cement: 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
2602	Bricks of class designation 75	1000 Nos	565.00	1900.00	1 073.50
2201	Carriage of bricks	1000 Nos	565.00	141.88	80.16
	Cement mortar 1:6	cum	0.434	1987.30	862.49
	(Rate as per item No. 3.11)				
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.02	47.29	0.95
	Labour:-				
0124	Mason 2nd class	Day	1.08	141.60	152.93
0114	Beldar	Day	0.25	135.25	33.81
0115	Coolie	Day	1.62	135.25	219.10
0101	Bhisti	Day	0.27	138.45	37.38
	TOTAL				2550.32
	Add 1% for water charges				25.50
	TOTAL				2 575.82
	Add15% for contractor's profit and overheads				386.37
	Cost of 10 sqm.				2962.19
	Cost of 1 sqm.				296.22
	Say				296.20

11.2 Dry brick on edge flooring in required pattern with bricks of class designation 75 on a bed of 12 mm mud mortar including filling joints with Jamuna sand (with F.P.S. bricks) complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
2602	Bricks of class designation 75	1000 Nos	645.00	1900.00	1225.50
2201	Carriage of bricks	1000 Nos	645.00	141.88	91.51
0983	Fine sand	cum	0.15	320.00	48.00
	Carriage of fine sand	cum	0.15	53.21	7.98
	Mud Mortar	cum	0.15	156.85	2.53
	(Rate as per item No. 3.18)				
	Labour:-				
0124	Mason 2nd class	Day	0.90	141.60	127.44
0115	Coolie	Day	1.98	135.25	267.80
0101	Bhisti	Day	0.05	138.25	6.92
	TOTAL				1798.68
	Add 1% for water charges				17.99
	TOTAL				1816.67
	Add 15% for contractor's profit and overheads				272.50
	Cost of 10 sqm.				2089.17
	Cost of 1 sqm.				208.92
	Say				208.90

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 40mm thick with 20mm nominal size stone aggregate.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
0295	20mm nominal size stone ballast	cum	0.267	700.00	186.90
0297	10mm nominal size stone ballast	cum	0.089	700.00	62.30
2202	Carriage of stone ballast	cum	0.356	53.21	18.94
0982	Coarse sand	cum	0.178	600.00	106.80
2203	Carriage of sand	cum	0.178	53.21	9.47
0367	Cement for slurry	tonne	0.17	4500.00	765.00
2209	Carriage of cement	tonne	0.17	47.29	8.04
	Laboun-				
0124	Mason 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	1.40	135.25	189.35
0101	Bhisti	Day	1.04	138.45	143.99
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
9999	Sundries	L.S.	40.43	1.00	40.43
	TOTAL				1661.04
	Add 1% for water charges				16.61
	TOTAL				1677.65
	Add 15% for contractor's profit and overheads				251.65
	Cost of 10 sqm.				1929.30
	Cost of 1 sqm.				192.93
	Say				192.95

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 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50kg of cement or as per manufacturers 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.				
	Materials:-				
0295	20mm ballast	cum	0.267	700.00	186.90
0297	10mm ballast	cum	0.089	700.00	62.30
2202	Carriage of stone ballast	cum	0.356	53.21	18.94
0982	Coarse sand	cum	0.178	600.00	106.80
2203	Carriage of coarse sand	cum	0.178	53.21	9.47
0298	Stone aggregate 6mm	cum	0.115	750.00	86.25
2202	Carriage of stone ballast aggregate 6mm	cum	0.115	53.21	6.12
0367	Cement	tonne	0.211	4500.00	949.50
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.231	47.29	10.92
7954	Hardening compound	liter	2.44	29.00	70.76
9999	Carriage of hard crete	L.S.	2.73	1.00	2.73
	Laboun				
0124	Mason 2nd class	Day	2.15	141.60	304.44
0114	Beldar	Day	1.60	135.25	216.40
0115	Coolie	Day	1.88	135.25	254.27
0101	Bhisti	Day	0.27	138.45	37.38
9999	Sundries	L.S.	53.82	1.00	53.82
	TOTAL				2467.00
	Add 1% for water charges				24.67
	TOTAL				2491.67
	Add 15% for contractor's profit and overheads				373.75
	Cost of 10 sqm.				2865.42
	Cost of 1 sqm.				286.54
	Say				286.55

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 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2(1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume. Hardening compound is mixed @ 2 litre per 50kg 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.				
	Materials:-				
0295	20mm ballast	cum	0.334	700.00	233.80
0297	10mm ballast	cum	0.111	700.00	77.70
2202	Carriage of ballast	cum	0.445	53.21	23.68
0982	Coarse sand	cum	0.222	600.00	133.20
2203	Carriage of sand	cum	0.222	53.21	11.81
0298	Stone aggregate 6mm	cum	0.115	750.00	86.25
2202	Carriage of stone aggregate	cum	0.115	53.21	6.12
0367	Cement	tonne	0.243	4500.00	1093.50

Code	Description	Unit	Quantity	Rate	Amount
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.263	47.29	12.44
7254	Hardening compound	litre	2.44	29.00	70.76
9999	Carriage of handening compound	L.S.	2.73	1.00	2.73
	Labour				
0124	Mason 2nd class	Day	2.15	141.60	304.44
0114	Beldar	Day	1.86	135.25	251.57
0115	Coolie	Day	1.88	135.25	254.27
0101	Bhisti	Day	0.27	138.45	37.38
9999	Sundries	L.S.	53.82	1.00	53.82
	TOTAL				2743.47
	Add 1% for water charges				27.43
	TOTAL				2770.90
	Add 15% for contractor's profit and overheads				415.64
	Cost of 10 sqm.				3186.54
	Cost of 1 sqm.				318.65
	Say				318.65

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.				
	Materials:-				
	Cement mortar 1:3 = 0.205 cum+				
	Add for rounding corners = 0.030 cum				
	= 0.235				
	Cement mortar 1:3 (1 Cement: 3 Coarse sand) (Rate as per item No. 3.8)	cum	0.235	3169.00	744.86
0367	cement for floating cost	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.02	47.29	0.95
	Labour:-				
0124	Mason 2nd class	Day	1.88	141.60	266.21
0115	Coolie	Day	1.88	135.25	254.27
0101	Bhisti	Day	0.54	138.45	74.76
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				1450.81
	Add 1 % for water charges				14.51
	TOTAL				1465.32
	Add 15% for contractor's profit and overheads				219.80
	Cost of 10 sqm.				1685.12
	Cost of 1 sqm.				168.51
	Say				168.50

11.7 Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 grated stone aggregate 20 mm nominal size) including finishing complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one cum.				
	Materials:-				
	(A) Cement concrete 1:2:4 (Rate as per item No. 4.2.3)	cum	1.00	3 579.10	3579.10
	Extra labour for laying in floors etc.				
0124	Mason 2nd class	Day	0.35	141.60	49.56

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	Day	0.18	135.25	24.34
0101	Bhisti	Day	0.05	138.45	6.92
9999	Sundries	L.S.	19.76	1.00	19.76
	TOTAL				3 679.68
	Add for water charges @1% on all except 'A'				1.01
	TOTAL				3 680.69
	Add for contractor's profit and overheads @ 15% on all except 'A'				15.24
	Cost of 1 Cum.				3 695.93
	Say				3 695.95

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 2nd class	Day	0.36	141.60	50.98
0114	Beldar	Day	0.36	135.25	48.69
9999	Chequered plate etc.	L.S.	13.52	1.00	13.52
	TOTAL				113.19
	Add 1% for water charges				1.13
	TOTAL				114.32
	Add 15% contractor's profit and overheads				17.15
	Cost of 10 sqm.				131.47
	Cost of 1 sqm.				13.15
	Say				13.15

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from lmm to 4mm 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				
	Materials				
	For under layer of 34mm thick				
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	0.227	700.00	158.90
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.076	700.00	53.20
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.303	53.21	16.12
0982	Coarse sand (zone III)	cum	0.151	600.00	90.60
2203	Carriage of Coarse sand	cum	0.151	53.21	8.03
0367	Cement	tonne	0.109	4500.00	490.50
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of Cement	tonne	0.129	47.29	6.10
	For top layer 6mm thick				
0785	Marble chips	quintal	0.872	115.00	100.28
2268	Carriage of Marble chips	cum	0.051	53.21	2.71

Code	Description	Unit	Quantity	Rate	Amount
0367	Portland Cement	tonne	0.0405	4500.00	182.25
2209	Carriage of white Cement	tonne	0.0405	47.29	1.92
0784	Marble powder	cum	0.007	800.00	5.60
0874	Dark shade pigmeny/3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg.	kilogram	2.84	42.00	119.28
9999	Carriage of pigment & marble powder etc.	L.S.	3.64	1.00	3.64
	Labour:-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Skilled Beldar (for floor rubbing etc.)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine for rubbing of floors	Day	1.60	200.00	320.00
9999	Sundries	L.S.	161.46	1.00	161.46
	Total				2632.18
	Add for water charges @ 1% on 'A'				26.32
	Total				2658.50
	Add for contractor's profit and overheads @ 15% on A+B				398.78
	Cost of 10 sqm				3057.28
	Cost of 1 sqm				305.73
	Say				305.75

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from lmm to 4mm 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 :

11.9.2 Light shade pigment with white cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.0 sqm				
	(A)Rate as per item no 11.9.1 of SH: Flooring	sqm	10	305.75	3057.50
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for light shade pigment	kilogram	2.84	65.00	184.60
0874	Deduct for dark shade pigment	kilogram	2.84	42.00	(-)119.28
	Addd difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0405	9700.00	392.85
0367	Deduct for grey cement	tonne	0.0405	4500.00	(-)182.25
	Total				3333.62
	Add 1 % for water charges except on 'A'				2.76
	Total				3336.38
	Add 15%-for contractor's profit and overhead except on 'A'				41.39
	Cost of 10 sqm				3377.77
	Cost of 1 sqm				337.78
	Say				337.80

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from lmm to 4mm 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 :

11.9.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	(A) Rate as per item no 11.9.1 of SH: Flooring	sqm	10	305.75	3057.50
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0876	Green or blue medium shade pigment	kilogram	2.84	45.00	127.80
0874	Deduct for dark shade pigment	kilogram	2.84	42.00	(-) 119.28
	Add difference of cost due to using white Cement instead of grey cement				
0368	Add for White Cement	tonne	0.0203	9700.00	196.91
0367	Deduct for grey cement	tonne	0.0203	4500.00	(-) 91.35
	Total				3592.84
	Add 1 % for water charges except on 'A'				1.14
	Total				3058.64
	Add 15% for contractor's profit and overhead except on 'A'				17.28
	Cost of 10 sqm				3075.92
	Cost of 1 sqm				307.59
	Say				307.60

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from lmm to 4mm 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 :

11.9.4 White cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Materials				
	For under layer of 34mm thick				
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	0.227	700.00	158.90
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.076	700.00	53.20
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.303	53.21	16.12
0982	Coarse sand (zone III)	cum	0.151	600.00	90.60
2203	Carriage of Coarse sand	cum	0.151	53.21	8.03
0367	Cement	tonne	0.109	4500.00	490.50
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of Cement	tonne	0.129	47.29	6.10

Code	Description	Unit	Quantity	Rate	Amount
	For top layer 6mm thick				
0785	Marble chips	quintal	0.958	115.00	110.17
2268	Carriage of Marble chips	cum	0.056	53.21	2.98
0368	White Cement	tonne	0.0405	9700.00	392.85
2209	Carriage of white Cement	tonne	0.0405	47.29	1.92
0784	Marble powder	cum	0.007	800.00	5.60
	Labour:-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Skilled Beldar (for floor rubbing etc.)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine for rubbing of floors	Day	1.60	200.00	320.00
9999	Sundries	L.S.	161.46	1.00	161.46
	Total				2 730.02
	Add for water charges @ 1 %				27.30
	Total				2 757.32
	Add for contractor's profit and overheads @)15%				413.60
	Cost of 10 sqm				3 170.92
	Cost of 1 sqm				317.09
	Say				317.10

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from lmm to 4mm 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 :

11.9.5 Light shade pigment with ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqmit				
	(A) Rate as per item no 11.9.1 of SH: Flooring	sqm	10	305.75	3057.50
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for light shade pigment	kilogram	2.84	65.00	184.60
	Deduct for dark shade pigment	kilogram	2.84	42.00	(-) 119.28
	Total				3122.82
	Add 1% for water charges Except on A:				0.65
	Total				3123.47
	Add 15%for contractor's profit and overheads Except on A:				9.90
	Cost of 10 sqm				3133.37
	Cost of 1 sqm				313.33
	Say				313.35

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 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4mm 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

11.9.6 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	(A)Rate as per item no 11.9.1 of SH: Flooring less cost of dark shade pigment	sqm	10	305.75	3057.50
0874	Deduct for dark shade pigment	kilogram	2.84	42.00	-119.28
9999	Deduct for carriage of pigment	L.S.	7.38	1.00	-7.38
	Total				2930.84
	Add 1% for water charges except on 'A'				-1.27
	Total				2929.57
	Add 15% for contractor's profit and overheads except on 'A'				-19.19
	Cost of 10 sqm				2910.38
	Cost of 1 sqm				291.04
	Say				291.05

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 3lmm thick cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Material				
	For under layer of 31mm thick				
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	0.21	700.00	147.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.07	700.00	49.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	53.21	14.90
0982	Coarse sand (zone III)	cum	0.14	600.00	84.00
2203	Carriage of Coarse sand	cum	0.14	53.21	7.45
0367	Cement	tonne	0.1005	4 500.00	452.25
0367	Cement for slurry	tonne	0.02	4 500.00	90.00
2209	Carriage of Cement	tonne	0.1205	47.29	5.70
	For top layer 9mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	1115.00	161.00
2268	Carriage of Marble chips	cum	0.082	53.21	4.36
0367	Portland Cement	tonne	0.0578	4 500.00	260.10
2209	Carriage of white Cement	tonne	0.0578	47.29	2.73
0784	Marble powder -	cum	0.012	800.00	9.60

Code	Description	Unit	Quantity	Rate	Amount
0874	Dark shade pigment 3.5kg/ 50kg of cement = 57.80x3.5/50=4.05kg.	kilogram	4.05	42.00	170.01
9999	Carriage of pigment & marble powder etc.	L.S.	5.46	1.00	5.46
	Labour-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Skilled Beldar (for floor rubbing etc.)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine for rubbing of floors	Day	1.60	200.00	320.00
9999	Sundries	L.S.	134.55	1.00	134.55
	Total				2613.79
	Add for water charges @ 1%				26.14
	Total				2639.93
	Add for contractor's profit and overheads @ 15%				395.99
	Cost of 10 sqm				3035.92
	Cost of 1 sqm				303.59
	Say				303.60

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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.

11.10.2 Light shade pigment with white cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	(A) Rate as per item no 11.10.1SH: Flooring	sqm	10	303.60	3036.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for light shade pigment	kilogram	4.05	65.00	263.25
0874	Deduct for dark shade pigment	kilogram	4.05	42.00	(-)170.10
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0578	9 700.00	560.66
0367	Deduct for grey cement	tonne	0.0578	4 500.00	(-) 260.10
	Total				3429.71
	Add 1 % for water charges except on 'A'				3.94
	Total				3433.65
	Add 15% for contractor's profit and overhead except on 'A'				59.06
	Cost of 10 sqm				3492.71
	Cost of 1 sqm				349.27
	Say				349.25

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 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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.**

11.10.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	(A) Rate as per item no11.10.1 of SH: Flooring	sqm	10	303.60	3036.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0876	Green or blue medium shade pigment	kilogram	4.05	45.00	182.25
0874	Deduct for dark shade pigment	kilogram	4.05	42.00	(-)170.10
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0289	9700.00	280.33
0367	Deduct for grey cement	tonne	0.0289	4500.00	(-)130.05
	Total				3198.43
	Add 1% for water charges except on 'A'				1.62
	Total				3200.05
	Add15% tor contractor's profit and overhead except on 'A'				24.61
	Cost of 10 sqm				3224.66
	Cost of 1 sqm				322.47
	Say				322.45

11.10 10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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.

11.10.4 White cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Materials				
	For under layer of 31mm thick				
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	0.21	700.00	147.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.07	700.00	49.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	53.21	14.90
0982	Coarse sand (zone III)	cum	0.14	600.00	84.00
2203	Carriage of Coarse sand	cum	0.14	53.21	7.45
0367	Cement	tonne	0.1005	4500.00	452.25
0367	Cement for slurry	tonne	0.02	4500.00	90.00

Code	Description	Unit	Quantity	Rate	Amount
2209	Carriage of Cement	tonne	0.1205	47.29	5.70
	For top layer 9mm thick				
0788	Marble chips large size above 4 mm	quintal	1.40	115.00	161.00
	White &				
2268	black	cum	0.082	53.21	4.36
0368	Carriage of Marble chips	tonne	0.0578	9700.00	560.66
2209	White Cement	tonne	0.0578	47.29	2.73
0784	Carriage of white Cement	cum	0.012	800.00	9.60
	Marble powder				
0124	Labour:-	Day	1.79	141.60	253.46
0114	Mason 2nd class	Day	1.99	135.25	269.15
0101	Beldar	Day	1.04	138.45	143.99
0139	Bhisti	Day	1.00	138.45	138.45
0127	Skilled Beldar (for floor rubbing etc.)	Day	0.03	151.50	4.54
0002	Mixer operator	Day	0.03	400.00	12.00
0013	Mixer	Day	1.60	200.00	320.00
9999	Machine for rubbing of floors	L.S.	161.46	1.00	161.46
	Sundries				2 891.70
	Total				28.92
	Add for water charges @ 1%				2 920.62
	Total Add for contractor's profit				438.09
	andoverheads @ 15%				3 358.71
	Cost of 10 sqm				335.87
	Cost of 1 sqm				335.85
	Say				

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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.

11.10.5 Light shade pigment with ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	(A) Rate as per item no. 11.10.1 of SH: Flooring	sqm	10	303.60	3036.00
	Add difference of cost due to using light				
	shade pigment instead of dark shade pigment				
0875	Add for light shade pigment	kilogram	2.84	65.00	184.60
0847	Deduct for dark shade pigment	kilogram	2.84	42.00	(-)119.28
	Total ,				3101.32
	Add 1% for water charges expect on 'A'				0.65
	Total				3101.97
	Add 15% for contractor's profit and overheads				9.90
	Cost of 10 sqm				3111.87
	cost of 1 sqm				311.19
	Say				311.20

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm 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.

11.10.6 Ordinary cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Materials				
	For under layer 31mm thick				
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	0.21	700.00	147.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.07	700.00	49.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	53.21	14.90
0982	Coarse sand (zone III)	cum	0.14	600.00	84.00
2203	Carriage of Coarse sand	cum	0.14	53.21	7.45
0367	Cement	tonne	0.1005	4500.00	452.25
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of Cement	tonne	0.1205	47.29	5.70
	For top layer 9mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.41	115.00	161.00
2268	Carriage of Marble chips	cum	0.082	53.21	4.36
0368	White Cement	tonne	0.0578	9700.00	560.66
2209	Carriage of White Cement	tonne	0.0578	47.29	2.73
0784	Marble powder	cum	0.012	800.00	9.60
	Labour:-				253.46
0124	Mason 2nd class	Day	1.79	141.60	269.15
0114	Beldar	Day	1.99	135.25	143.99
0101	Bhisti	Day	1.04	138.45	138.45
0139	Skilled Beldar (for floor rubbing etc.)	Day	1.00	138.45	4.54
0127	Mixer operator	Day	0.03	151.50	12.00
0002	Mixer	Day	0.03	400.00	320.00
0013	Machine for rubbing of floors	Day	1.60	200.00	134.55
9999	Sundries	L.S.		1.00	2564.23
	Total				25.64
	Add for water charges @ 1 %				2589.87
	Total				38.48
	Add for contractor's profit and overheads @ 15%				
	Cost of 10 sqm				2978.35
	Cost of 1 sqm				297.84
	Say				297.85

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	For under layer 0128mm thick				
0296	12.5mm stone aggregate	cum	0.19	700.00	133.00
0297	10mm stone aggregate	cum	0.06	700.00	42.00
2202	Carriage of stone aggregate	cum	0.25	53.21	13.30
0982	Coarse sand	cum	0.125	600.00	75.00
2203	Carriage of coarse sand	cum	0.125	53.21	6.65
0367	Cement	tonne	0.0897	4500.00	403.65
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.1097	47.29	5.19
	For top layer 12mm thick				
0788	Marble chips 7mm to 10mm size	quintal	1.734	115.00	199.41
2268	Carriage of marble chips	cum	0.102	53.21	5.43
0368	Cement	tonne	0.081	9700.00	364.50
2209	Carriage of cement	tonne	0.081	47.29	3.83
0784	Marble powder	cum	0.017	800.00	13.60
0874	Dark shade pigment @ 3.5kg/50kg of cement = 81x3.5/50=5.67kg	kilogram	5.67	42.00	238.14
9999	Carriage of pigment and marble powder etc.	L.S	6.24	1.00	6.24
	Labour:-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries	L.S.	156.13	1.00	156.13
	TOTAL				2897.66
	Add 1% for water charges				28.98
	TOTAL				2926.64
	Add 10% for contractor’s profit and overheads				439.00
	Cost of 10 sqm.				3365.64
	Cost of 1 sqm.				336.56
	Say				336.55

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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 :

11.11.2 Light shade pigment with white cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Cost same as per item No 11.11.1	sqm	10.00	336.55	3 365.50
	(A) Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Light shade pigment	kilogram	5.67	65.00	368.55
0874	Deduct for Dark shade pigment	kilogram	5.67	42.00	(-)238.14
	Add Difference of cost due to using white cement instead of grey cement				
0368	Add for White cement	tonne	0.081	9700.00	785.70
0367	Deduct for Grey cement	tonne	0.081	4500.00	(-)364.50
	TOTAL				3917.11
	Add 1 % for water charges except on 'A'				5.52
	TOTAL				3922.63
	Add 15 %Tor contractor's profit and overheads except on 'A'				83.57-
	Cost of 10 sqm.				4006.20
	Cost of 1 sqm.				400.62
	Say				400.60

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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 :

11.11.3 Medium shade pigment with 50% white cement and 50% ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	(A) Cost same as per item No 11.11.1	sqm	10.00	336.55	3 365.50
	Add difference of cost due to using Medium shade pigment instead of dark shade pigment				
0876	Add for Medium shade pigment	kilogram	5.67	45.00	255.15
0874	Deduct for Dark shade pigment	kilogram	5.67	42.00	(-)238.14
	Add Difference of cost due to using white cement instead of grey cement				
0368	Add for White cement	tonne	0.0405	9700.00	392.85
0367	Deduct for Grey cement	tonne	0.0405	4500.00	(-)182.25
	TOTAL				3 593.11
	(B) Add 1% for water charges except on 'A'				2.28
	TOTAL				3 595.39
	Add 15% for contractor's profit and overheads				34.48
	except on 'A'				3 629.87
	Cost of 10 sqm.				362.99
	Cost of 1 sqm.				363.00
	Say				

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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 :

11.11.4 White cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	For under layer of 128mm thick				
0296	12.5mm stone aggregate	cum	0.19	700.00	133.00
0297	10mm stone aggregate	cum	0.06	700.00	42.00
2202	Carriage of stone aggregate	cum	0.25	53.21	13.30
0982	Coarse sand	cum	0.125	600.00	75.00
2203	Carriage of coarse sand	cum	0.125	53.21	6.65
0367	Cement	tonne	0.0897	4500.00	403.65
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.1097	47.29	5.19
	For top layer 12mm thick				
0788	Marble chips 7mm to 10mm size	quintal	1.916	115.00	220.34
2268	Carriage of marble chips	cum	0.1128	53.21	6.00
0368	Cement	tonne	0.081	9700.00	785.70
2209	Carriage of cement	tonne	0.081	47.29	3.83
0784	Marble powder	cum	0.017	800.00	13.60
	Labour:-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries	L.S.	134.55	1.00	134.55
	TOTAL				3074.40
	Add 1% for water charges				30.74
	TOTAL				3105.14
	Add 15% for contractor's profit and overheads				465.77
	Cost of 10 sqm.				3570.91
	Cost of 1 sqm.				357.09
	Say				357.10

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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 :

11.11.5 Light shade pigment with ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm. (A) Cost same as per item No 11.11.1 Add difference of cost due to using Light	sqm	10.00	336.55	3 365.5

Code	Description	Unit	Quantity	Rate	Amount
	shade pigment instead of dark shade				
0876	pigment	kilogram	5.67	65.00	368.55
0874	Add for Light shade pigment	kilogram	5.67	42.00	(-)238.14
	Deduct for Dark shade pigment				3495.91
	TOTAL				1.30
	Add 1% for water charges except on 'A'				3497.21
	TOTAL 15				19.76
	Add 15% for contractor's profit and overheads				
	except on 'A'				
	Cost of 10 sqm.				3516.97
	Cost of 1 sqm.				351.70
	Say				351.70

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 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm 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 :

11.11.6 Ordinary cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	For under layer 28mm thick				
0296	12.5mm stone aggregate	cum	0.19	700.00	133.00
0297	10mm stone aggregate	cum	0.06	700.00	42.00
2202	Carriage of stone aggregate	cum	0.25	53.21	13.30
0982	Coarse sand	cum	0.125	600.00	75.00
2203	Carriage of coarse sand	cum	0.125	53.21	6.65
0367	Cement	tonne	0.0897	4500.00	403.65
0367	Cement for slurry	tonne	0.02	4500.00	90.00
2209	Carriage of cement	tonne	0.1097	47.29	5.19
	For top layer 12mm thick				
0788	Marble chips 7mm to 10mm size	quintal	1.916	115.00	220.34
2268	Carriage of marble chips	cum	0.1128	53.21	6.00
0368	Cement	tonne	0.081	4500.00	364.50
2209	Carriage of cement	tonne	0.081	47.29	3.83
0784	Marble powder	cum	0.017	800.00	13.60
	Labour:-				
0124	Mason 2nd class	Day	1.79	141.60	253.46
0114	Beldar	Day	1.99	135.25	269.15
0101	Bhisti	Day	1.04	138.45	143.99
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0127	Mixer operator	Day	0.03	151.50	4.54
0002	Mixer	Day	0.03	400.00	12.00
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries	L.S.	134.55	1.00	134.55
	TOTAL				2653.20
	Add 1% for water charges				26.53
	TOTAL				2679.73
	Add 15% for contractor's profit and overheads				401.96
	Cost of 10 sqm.				3081.69
	Cost of 1 sqm.				308.17
	Say				308.15

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	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	For under layer of 12mm thick				
	Cement mortar 1:3 = 0.144"+ Extra for. rounding = 0.03 =0.174 cum (Rate as per item No.3.8)	cum	0.174	3169.60	551.51
	Top layer 6mm thick				
0785	Marble chips	quintal	0.872	115.00	100.28
2268	Carriage of marble chips	cum	0.051	53.21	2.71
0367	Cement	tonne	0.0405	4500.00	182.25
2209	Carriage of cement	tonne	0.0405	47.29	1.92
0784	Marble powder	cum	0.007	800.00	5.60
0874	Dark shade pigment @ 3.5kg/50kg of cement =40.5x3.5/50=2.84kg.	kilogram	2.84	42.00	119.28
9999	Carriage of pigment & marble powder etc.	L.S.	3.64	1.00	3.64
	Labour:-				
0124	Mason 2nd class	Day	3.00	141.60	424.80
0114	Beldar	Day	3.00	135.25	405.75
0101	Bhisti	Day	1.00	138.45	138.45
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.00	138.45	969.15
9999	Sundries	L.S.	201.89	1.00	201.89
	TOTAL				3107.23
	Add 1% for water charges				31.07
	TOTAL				3138.30
	Add 15% for contractor's profit and overheads				470.74
	Cost of 10 sqm.				3 609.04
	Cost of 1 sqm.				360.90
	Say				360.90

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):

11.12.1.2 Light shade pigment with white cement.

Code	Discription	Unit	Quantity	Rate	Amount
	(A) Details of cost for 10 sqm.				
	Cost same as per item No. 11.12.1.1	cum	10.00	360.90	3 609.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Light shade pigment	kilogram	2.84	65.00	184.60
0874	Deduct for Dark shade pigment	kilogram	2.84	42.00	(-)119.28

Code	Description	Unit	Quantity	Rate	Amount
	Add Difference of cost due to using white cement instead of grey cement				
0368	Add for White cement	tonne	0.0405	9 700.00	392.85
0367	Deduct for Grey cement	tonne	0.0405	4 500.00	(-)182.25
	TOTAL				3884.92
	Add 1 % for water charges except on 'A'				2.76
	TOTAL				3887.68
	Add 10% for contractor's profit and overheads except on 'A'				41.80
	Cost of 15%				3929.48
	Cost of 1 sqm.				392.95
	Say				392.95

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):

11.12.1.2 Light shade pigment with white cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	(A) Cost same as per item No.11.12.1.1	cum	10	360.90	3 609.00
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				
0876	Add for Medium shade pigment	kilogram	2.84	45.00	127.80
0874	deduct for Dark shade pigment	kilogram	2.84	42.00	(-)119.28
	Add Difference of cost due to using white cement instead of grey cement				
0368	Add for White cement	tonne	0.0203	9700.00	196.91
0367	Deduct for Grey cement	tonne	0.0203	4500.00	(-)91.35
	TOTAL				3723.08
	Add 1 % for water charges except on 'A'				1.14
	TOTAL				3724.22
	Add 10% for contractor's profit and overheads except on 'A"				17.28
	Cost of 15%				3741.50
	Cost of 1 sqm.				374.15
	Say				374.15

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):

11.12.1.4 White cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	For under layer of 12mm thick				
	Cement mortar 1:3 = 0.144+Extra for rounding = 0.03 =0.174 (Rate as per item no. 3.8)	cum	0.174	3169.60	551.51
	Top layer 6mm thick				
0785	Marble chips	quintal	0.958	115.00	110.17
2268	Carriage of marble chips	cum	0.056	53.21	2.98
0368	White cement	tonne	0.0405	9 700.00	392.85
2209	Carriage of white cement	tonne	0.0405	47.29	1.92
0784	Marble powder	cum	0.007	800.00	5.60
	Labour:-				
0124	Mason 2nd class	Day	3.00	141.60	424.80
0114	Beldar	Day	3.00	135.25	405.75
0101	Bhisti	Day	1.00	138.45	138.45
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.00	138.45	969.15
9999	Sundries	L.S	201.89	1.00	201.89
	TOTAL				3 205.07
	Add 1 % for water charges				32.05
	TOTAL				3 237.12
	Add 15% for contractor's profit and overheads				485.57
	Cost of 10 sqm.				3 722.69
	Cost of 1 sqm.				372.27
	Say				372.25

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):

11.12.1.5 Light shade pigment with ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	(A) Cost same as per item No 11.12.1.1.	sqm	10	360.90	3 609.00
	Add difference of cost due to using Light shade pigment instead of dark shade pigment				
0875	Add for Light shade pigment	kilogram	2.84	65.00	184.60
0874	Deduct for Dark shade pigment	L.S.	2.84	42.00	(-)119.28
	TOTAL				3674.32
	Add 1 % for water charges except on 'A'				0.65
	TOTAL				3674.97
	Add 40% for contractor's profit and overheads except on 'A'				9.90
	Cost of 15%				3684.87
	Cost of 1 sqm.				368.49
	Say				368.50

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):

11.12.1.6 Ordinary cement without any pigment.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	(A) Cost same as per item No. 11.12.1.1	sqm	10.00	360.90	3 609.00
	Less cost of dark shade pigment				
0874	Deduct for dark shade pigment	kilogram	2.84	42.00	(-)119.28
9999	Deduct for Carriage of pigment	L.S.	7.38	1.00	7.38
	TOTAL				3482.34
	Add 1% for water charges except on 'A'				1.27
	TOTAL				3481.07
	Add 15% for contractor's profit and overheads except on 'A'				19.19
	Cost of 15% sqm				3461.88
	Cost of 1 sqm.				346.19
	Say				346.20

11.12 Providing and fixing glass strips in joints of terrazo/ cement concrete floors.

11.13.1 40 mm wide and 4 mm thick.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre length				
	Materials-				
	Glass strips = 10m				
	Add 10% for wastage = 1m				
	Total = 11m				
1149	Glass strips	metre	11.00	6.00	66.00
9999	Carriage of glass	L.S	2.73	1.00	2.73
	Labour-				
0124	Mason 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	0.25	135.25	33.81
9999	Sundries	L.S	13.52	1.00	13.52
	TOTAL				151.46
	Add 1% for water charges				1.51
	TOTAL				152.97
	Add 15% for contractor's profit and overheads				22.95
	Cost of 10 meter				175.92
	Cost of 1 meter				17.59
	Say				17.60

11.14 Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width including cost of forming, nosing etc.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Labour-				
0124	Mason 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	0.30	135.25	40.57
0115	Coolie	Day	0.30	135.25	40.57
	TOTAL				123.62
	Add 1 % for water charges				1.24

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				124.86
	Add 15% for contractor's profit and overheads				18.73
	Cost of 10 Sqm.				143.59
	Cost of 1sqm,				14.36
	Say				14.35

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 1mm to 4mm nominal size by volume) and under layer 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) rubbing, polishing and ceme-nt slurry etc. complete :

11.15.1 18 mm thick crazy marble stone white, black or as specified.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Under layer 25mm thick of cement				
	(A) Concrete 1:2:4 -10x0.025=0.25 cum	cum	0.25	3695.95	923.99
	(Rate same as in item no. 11.7)				
0367	Cement slurry for subgrade and under large cement	tonne	0.04	4500.00	180.00
2209	Carriage of cement	tonne	0.04	47.29	1.89
	Labour for applying cement slurry				
0114	Beldar	Day	0.50	135.25	67.62
	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				
2710	0.872x0.14/0.051 = 2.40q	quintal	2.40	105.00	252.00
0368	White cement	tonne	0.0405	9700.00	392.85
0784	Marble powder	cum	0.007	800.00	5.60
0875	Light shade pigment @ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg	kilogram	2.84	65.00	184.60
0785	Marble chips	quintal	0.872	115.00	100.28
2268	Carriage of marble chips	cum	0.051	53.21	2.71
2209	Carriage of cement	tonne	0.0405	47.29	1.92
9999	Carriage of pigment & marble powder	L.S.	3.64	1.00	3.64
2216	Carriage of marble stone pieces	tonne	0.24	47.29	11.35
	Labour for finishing, polishing and fixing-				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
9999	Sundries including carborandum etc.	L.S.	134.55	1.00	134.55
0101	Bhisti	Day	0.54	138.45	74.76
0013	Machine	Day	4.00	200.00	800.00
	TOTAL				4 282.31
	Add for water charges @ 1% on all except (A)				33.58
	TOTAL				4 315.89
	Add for contractor's profit and overheads @ 15% on all except (A)				508.78
	Cost of lOSqm.				4 824.67
	Cost of lsqm.				482.47
	Say				482.45

11.16 Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm 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 with precast tiles on 20mm thick bed of cement mortar 1:4(1 cement :4 coarse sand):

11.16.1 Light shade using white cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1201	Terrazo tiles including 10% wastage	sqm	11.00	198.00	2178.00
9999	Carriage of tiles	L.S	40.43	1.00	40.43
0367	Cement mortar 1:4 (1 Cement : 4 Coarse sand) (Rate as per item No. 3.9)	cum	0.224	2578.45	577.57
0367	Grey cement for slurry @ 4.4Kg/sqm.	tonne	0.044	4500.00	198.00
0368	White cement for grouting	tonne	0.044	9700.00	426.80
2209	Carriage of cement	tonne	0.088	47.29	4.16
0875	Light shade pigment	kilogram	3.08	65.00	200.20
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S	161.98	1.00	161.98
	TOTAL				4881.10
	Add 1% for water charges				48.81
	TOTAL				4 929.91
	Add 15%'for contractor's profit and overheads				739.49
	Cost of 10 sqm.				5 669.40
	Cost of 1 sqm.				566.94
	Say				566.95

11.16 Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm 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 with precast tiles on 20mm thick bed of cement mortar 1:4(1 cement :4 coarse sand):

11.16.2 Medium shade using 50%white cement and 50% ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1202	Terrazo tiles including 10% wastage	sqm	11.00	175.00	1 925.00
9999	Carriage of tiles	L.S	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement: 4 Coarse sand) (Rate as per item No. 3.9)	tonne	0.224	2578.45	577.57
	Grey cement (i) for slurry @ 4.4Kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg. Total =66kg or 0.066 tonne				
0367	Grey cement	tonne	0.066	4500.00	297.00
0368	50% white cement for grouting	tonne	0.022	9700.00	213.40
2209	Carriage of cement	tonne	0.088	47.29	4.16
0876	Medium shade pigment	kilogram	3.08	45.00	138.60
	LABOUR				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special	Day	1.00	138.45	138.45

Code	Description	Unit	Quantity	Rate	Amount
	Rate)				
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.0	320.00
9999	Sundries including carborandum stone etc.	L.S	161.98	1.00	161.98
	TOTAL				4452.10
	Add 1% for water charges				44.52
	TOTAL				4496.62
	Add 15% for contractor's profit and overheads				674.49
	Cost of 10 sqm.				5171.11
	Cost of 1 sqm.				517.11
	Say				517.10

11.16 Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm 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 with precast tiles on 20mm thick bed of cement mortar 1:4(1 cement :4 coarse sand):

11.16.3 Dark shade using ordinary cement.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for l0 sqm.				
	Materials-				
1203	Terrazo tiles including 10% wastage	sqm	170.00	170.00	1870.00
9999	Carriage of tiles	L.S	1.00	1.00	40.43
	Cerrusnt.mortar l:4(lCement: 4 Coarse sand) Rate as per item No. 3.9	cum	2578.45	2578.45	577.57
	Ordinary cement for(i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total - 88kg or 0.088 tonne				
0367	Ordinary cement	tonne	0.088	4 500.00	396.00
2209	Carriage of cement	tonne	0.088	47.29	4.16
0874	Dark shade pigment	kilogram	3.08	42.00	129.36
	LABOUR				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S	161.98	1.00	161.98
	TOTAL				4273.46
	Add 1% for water charges				42.73
	TOTAL				4316.19
	Add 15% for contractor's profit and overheads				647.43
	Cost of 10 sqm.				4963.62
	Cost of 1 sqm.				496.36
	Say				496.35

11.16 Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm 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 with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand):

11.16.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1203	Terrazo tiles including 10% wastage	sqm	11.00	170.00	1870.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1Cement: 4 Coarse sand)				
	Rate as per item no. 3.9	cum	0.224	2578.45	577.57
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total = 88kg or 0.088 tonne				
0367	Ordinary cement	tonne	0.088	4500.00	396.00
2209	Carriage of cement	tonne	0.088	47.29	4.16
0874	Dark shade pigment	kilogram	3.08	42.00	129.36
	LABOUR				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.00	161.98
874	Less for dark shade pigment [3.08+2.84(for tiles)]	kilogram	5.92	42.00	-248.64
	TOTAL				4 024.82
	Add 1 % for water charges				40.25
	TOTAL				4065.07
	Add 15% for contractor's profit and overheads				609.76
	Cost of 10 sqm.				4674.83
	Cost of 1 sqm.				467.48
	Say				467.50

11.17 Extra if terrazo tiles are laid in treads of steps not exceeding 30 pccm in width.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Labour-				
0124	Mason 2nd class	Day	0.22	141.60	31.15
0115	Coolie	Day	0.22	135.25	29.76
0139	Beldar for rubbing and polishing (Special Rate)	Day	0.65	138.45	89.99
	TOTAL				150.90
	Add 1% for water charges				1.51
	TOTAL				152.41
	Add 15% for contractor's profit and overheads				22.86
	Cost of 10 sqm.				175.27
	Cost of 1 sqm.				17.53
	Say				17.55

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 using white cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1201	Terrazo tiles including 10% wastage	sqm	11.00	198.00	2178.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1 :3 (1Cement: 3 Coarse sand) Rate as per item No. 3.8	cum	0.144	3169.60	456.42
	White cement tor slurry	cum	0.144		
0368	For buttering tiles bed sides =44 kg. + For grouting =22 kg. Total = 66 kg.	tonne	0.066	9700.00	640.20
2209	Carriage of cement	tonne	0.066	47.29	3.12
0875	Light shade pigment 66x3.5/50 = 4.62	kilogram	4.62	65.00	300.30
	Labour-				
0124	Mason 2nd class	Day	3.25	141.60	460.20
0115	Coolie	Day	3.25	135.25	439.56
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.60	138.45	1052.22
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.00	161.46
	TOTAL				5731.91
	Add 1% for water charges				57.32
	TOTAL				5789.23
	Add 15% for contractor's profit and overheads				868.38
	Cost of 10 sqm.				6657.61
	Cost of 1 sqm.				665.76
	Say				665.75

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:

11.18.2 Medium shades using 50% white cement and 50% ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1202	20mm thick terrazo tiles (medium shades) including wastage & breakage	sqm	11.00	175.00	1925.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:3(1 Cement: 3 Coarse sand) Rate as per item no. 3.8	cum	0.144	3169.60	456.42
0368	50% white cement for slurry	tonne	0.033	9700.00	320.10
0367	50% grey cement for slurry	tonne	0.033	4500.00	148.50
2209	Carriage of cement	tonne	0.066	47.29	3.12
0876	Medium shade pigment	Kilogram	4.62	45.00	207.90
	Labour-				
0124	Mason 2nd class	Day	3.25	141.60	460.20

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	3.25	135.25	439.55
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.60	138.45	1052.22
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.00	161.46
	TOTAL				5214.91
	Add 1% for water charges				52.15
	TOTAL				5267.06
	Add 15% for contractor's profit and overheads				790.06
	Cost of 10 sqm.				6057.12
	Cost of 1 sqm.				605.71
	Say				605.70

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:

11.18.3 Dark shade using ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials-				
1203	20mm thick terrazo tiles (dark shades) including wastage & breakage	sqm	11.00	170.00	1870.00
9999	Carriage of tiles	L.S.	15.55	1.00	40.43
	Cement mortar. 1:3 (1 Cement: 3 Coarse sand) Rate as per item No. 3.8	cum	0.144	3169.60	456.42
0367	Grey cement for slurry	tonne	0.066	4500.00	297.00
2209	Carriage of cement	tonne	0.066	47.29	3.12
0874	Dark shade pigment	kilogram	4.62	42.00	194.04
	Labour-				
0124	Mason 2nd class	Day	3.25	141.60	460.20
0115	Coolie	Day	3.25	135.25	439.56
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.6	138.45	1 052.22
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.00	161.46
	TOTAL				4 974.45
	Add 1 % for water charges				49.74
	TOTAL				5 024.19
	Add 15% for contractor's profit and overheads				753.63
	Cost of 10 sqm.				5 777.82
	Cost of 1 sqm.				577.78
	Say				577.80

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:

11.18.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1203	20mm thick terrazo tiles (dark shades)	sqm	11.00	170.00	1870.00

Code	Description	Unit	Quantity	Rate	Amount
	including wastage & breakage				
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cemept mortar 1:3 (1 Cement: 3 Coarse sand) Rate as per item No. 3.8	cum	0.144	3169.60	456.42
0367	Grey cement for sturry	tonne	0.066	4500.00	297.00
2209	Carriage of cement	tonne	0.066	47.29	3.12
0874	Dark shade pigment	kilogram	4.62	42.00	194.04
	Labour-				
0124	Mason 2nd class	Day	3.25	141.60	460.20
0115	Coolie	Day	3.25	135.25	439.56
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.60	138.45	1052.22
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.00	161.46
0874	Less for dark shade pigment [3.08+2.84(for tiles)]	kg	5.92	42.00	-248.64
	TOTAL				4725.81
	Add 1% for water charges				47.26
	TOTAL				4773.07
	Add 15% for contractor's profit and overheads				715.96
	Cost of 10 sqm.				5489.03
	Cost of 1 sqm.				548.90
	Say				548.90

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):

1.19.1 Light shade using white cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1227	Terrazo tiles including 10% wastage	sqm	11.00	230.00	2530.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement,; 4 Coarse sand)	cum	0.224	2578.45	577.57
0367	Grey cement for slurry @ 4.4kg/sqm.	tonne	0.044	4500.00	198.00
0368	White cement for grouting	tonne	0.044	9700.00	426.80
2209	Carriage of cement	tonne	0.088	47.29	4.16
0875	Light shade pigment	kilogram	3.08	65.00	200.20
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.00	161.98
	TOTAL				5 233.10
	Add 1% for water charges				52.33
	TOTAL				5 285.43
	Add 15% for contractor's profit and overheads				792.81
	Cost of 10 sqm.				6 078.24
	Cost of 1 sqm.				607.82
	Say				607.80

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):

11.19.2 Medium shade using 50% white cement, 50% ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1228	Terrazo tiles including 10% wastage	sqm	11.00	200.00	2200.00
9999	Carriage of tiles	L.S	40.43	1.00	40.43
	Rate as per item No. 3.9				
	Cement mortar 1:4(1 Cemet: 4 Coarse sand)	cum	0.224	2578.45	577.57
	Grey cement (i) for slurry @ 4.4kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg. Total =66kg or 0.066 tonne				
0367	Grey cement	tonne	0.066	4500.00	297.00
0368	50% white cement for grouting	tonne	0.022	9700.00	213.40
2209	Carriage of cement	tonne	0.088	47.29	4.16
0876	Medium shade pigment	kilogram	3.08	45.00	138.60
	Labour and sundries				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.00	161.98
	TOTAL				4727.10
	Add 1% for water charges				47.27
	TOTAL				4774.37
	Add 15% for contractor's profit and overheads				716.16
	Cost of 10 sqm.				5490.53
	Cost of 1 sqm.				549.05
	Say				549.05

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 tck bed of cement mortar 1:4(1 cement :4 coarse sand):

11.19.3 Dark shade using ordinary cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for lOsqm.				
	Materials-				
1229	Terrazo tiles including 10% wastage	sqm	11.00	170.00	1870.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement: 4 Coarse sand)	cum	0.224	2578.45	577.57
	Rate as per item No. 3.9				
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total = 88kg or 0.088 tonne				
0367	Ordinary cement	tonne	0.088	4500.00	396.00
2209	Carriage of cement	tonne	0.088	47.29	4.16
0874	Dark shade pigment	kilogram	3.08	42.00	129.36
	Labour & sundries				
0124	Mason 2nd class	Day	1.60	141.60	226.56

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	2.00	135.25	270.50
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.00	161.98
	TOTAL				4273.46
	Add 1 % for water charges				42.73
	TOTAL				4316.19
	Add 15% for contractor's profit and overheads				647.43
	Cost of 10 sqm.				4963.62
	Cost of 1 sqm.				496.36
	Say				496.35

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):

11.19.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
1229	Terrazo tiles including 10% wastage	sqm	11.00	170.00	1870.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cemet: 4 Coarse sand) Rate as per item No. 3.9	cum	0.224	2578.45	577.57
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total = 88kg or 0.088 tonne				
0367	Ordinary cement	tone	0.088	4500.00	396.00
2209	Carriage of cement	tone	0.088	47.29	4.16
0874	Dark shade pigment	Kilogram	3.08	42.00	129.36
	Labour & sundries				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.56
0139	Beldar for rubbing and polishing (Special Rate)	Day	1.00	138.45	138.45
0101	Bhisti	Day	1.00	138.45	138.45
0013	Machine	Day	1.60	200.00	320.00
9999	Sundries including carborandum stone etc.	L.S.	162.59	1.00	162.59
0874	Less for dark shade pigment [3.08+2.84(for tiles)]	Kilogram	5.92	42.00	-248.64
	TOTAL				4025.43
	Add 1 % for water charges				40.25
	TOTAL				4065.68
	Add 15% for contractor's profit and overheads				609.85
	Cost of 10 sqm.				4675.53
	Cost of 1 sqm.				467.55
	Say				467.55

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 using white cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
7070	Chequerred C.C. tiles including 10% wastage	sqm	11.00	415.00	4565.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement: 4 Coarse sand) Rate as per item no. 3.9	cum	0.22	2578.45	567.26
0367	Grey cement slury @ 4.4kg @sqm,	tonne	0.044	4500.00	198.00
0368	White cement for grouting	tonne	0.048	9700.00	465.60
2209	Carriage of cement	tonne	0.092	47.29	4.35
0875	Light shade pigment	kilogram	3.08	65.00	200.20
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhisti	Day	1.00	138.45	138.45
	TOTAL				6676.35
	Add 1% for water charges				66.76
	TOTAL				6743.11
	Add 15% for contractor's profit and overheads				1011.47
	Cost of 10 sqm.				7754.58
	Cost of 1 sqm.				775.46
	Say				775.45

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).

11.20.2 Medium shade using 50% white cement 50% Grey cement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
7237	Chequered cement concrete tiles i/c10% wastage	sqm	11.00	305.00	3355.00
9,999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement: 4Coarse sand) Rate as per item no. 3.9	cum	0.22	2578.45	567.26
0367	Grey cement for slurry @ 4.4Kg/sqm. = 44 kg. + grey cement for grouting 2.4kg/sqm. = 24 kg. Total = 68 kg.	tonne	0.068	4500.00	306.00
0368	White cement for grouting @ 2.4kg/sqm. = 24 kg.	tonne	0.024	9700.00	232.80
2209	Carriage of cement	tonne	0.092	47.29	4.35
0876	Medium shade pigment	Kilogram	3.08	45.00	138.60
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhisti	Day	1.00	138.45	138.45
	TOTAL				5279.95
	Add 1% for water charges				52.80
	TOTAL				5332.75
	Add 15% for contractor's profit and overheads				799.91
	Cost of 10 sqm.				6132.66
	Cost of 1 sqm.				613.27
	Say				613.25

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).

11.20.3 Dark shade using ordinary Cement

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
7236	Chequered cement concrete tiles 10% wastage	sqm	11.00	193.00	2123.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4(1 Cement: 4Coarse sand)	cum	0.22	2578.45	567.26
	Rate as per item no. 3.9				
0367	Grey cement for slurry @ 4.4Kg/sqm. = 44 kg. + For grouting = 48 kg. Total=92 kg. say 0.092 tonne	tonne	0.092	4500.00	414.00
2209	Carriage of cement	tonne	0.092	47.29	4.35
0874	Dark shade pigment	Kilogram	3.08	42.00	129.36
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhisti	Day	1.00	138.45	138.45
	TOTAL				3913.91
	Add 1% for water charges				39.14
	TOTAL				3953.05
	Add 15% for contractor's profit and overheads				592.26
	Cost of 10 sqm.				4546.01
	Cost of 1 sqm.				454.60
	Say				454.60

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).

11.20.4 Ordinary cement without any pigment.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
7236	Chequerred C.C. tiles including 10% wastage	sqm	11.00	193.00	2 123.00
9999	Carriage of tiles	L.S.	40.43	1.00	40.43
	Cement mortar 1:4 (1 Cement 4 Coarse sand) (Rate as per item No.3.9)	cum	0.22	2 578.45	567.26
0367	Grey cement for slurry @ 4.4kg/sqm. = 44 kg For grouting = 48 kg. Total = 92 Kg. Say 0.092 tonne	tonne	0.092	4 500.00	414.00
2209	Carriage of cement	tonne	0.092	47.29	4.35
0874	Dark shade pigment	kilogram	3.08	42.00	129.36
	Labour-				
0124	Mason 2nd class	Day	1.60	141.60	226.56
0115	Coolie	Day	2.00	135.25	270.50
0101	Bhisti	Day	1.00	138.45	138.45
0874	Less for dark shade pigment [3.08+2.84(for tiles)]	kilogram	5.92	42.00	-248.64
	TOTAL				3665.27

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				36.65
	TOTAL				3701.92
	Add 15% for contractor's profit and overheads				555.29
	Cost of 10 sqm.				4257.21
	Cost of 1 sqm.				425.72
	Say				425.70

11.21 : Providing and fixing 10mm 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. Materials- Acid proof tiles of size 300x300mm, 10mm thick =11.11 nos+ Add wastage and breakage @ 2.5% = 0.28 nos. = 11.39 nos. Say 12 nos.				
7077	Acid proof tiles	10 Nos	12	460.00	552.00
9999	Carriage	L.S.	6.24	1.00	6.24
	10mm thick cement motar 1:4 (1 Cement: 4 Coarse sand) (Rate as per item No 3.9)	cum	0.012	2 578.45	30.94
9999	Mortar for pointing in acid/alkali resistant cement	L.S.	40.43	1.00	40.43
0367	Cement for slurry over bed @ 3.3kg per sqm.	tonne	0.0033	4 500.00	14.85
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid proof cement	tonne	0.0079	7 400.00	58.46
0367	Less Ordinary Cement	tonne	0.0079	4 500.00	-35.55
	Labour-				
0123	Mason 1 st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.00	26.91
	TOTAL				751.63
	Add 1% for water charges				7.52
	TOTAL				759.15
	Add 15% for contractor's profit and overheads				113.87
	Cost of 1 sqm.				873.02
	Say				873.00

11.21 Providing and fixing 10mm 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.

11.21.2 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.				
	Materials-				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11nos.+				
	Add wastage and breakage @ 2.5% = 0.28 nos.				
	= 11.39 nos. Say 12 nos.				
7077	Acid proof tiles size 300x300mm, 10mm thick	10 Nos	12.00	460.00	552.00
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	12mm .thick.Cement mortar, 1:4	cum	0.014	2578.45	36.10
	(Rate as per item No 3.9)				
	Difference of cost for using^acid proof cement instead of ordinary cement				
7024	Acid proof cement	tonne	0.0086	7400.00	63.64
0367	Less Ordinary Cement	tonne	0.0086	4500.00	-38.70
9999	Mortar for pointing in acid proof cement	L.S.	40.43	1.00	40.43
7024	Acid proof cemen for slurry over plaster 3.3kg/sqm.	tonne	0.0033	7 400.00	24.42
	Labour-				
0123	Mason 1st class	Day	0.25	151.50	37.88
0115	Coolie	Day	0.25	135.25	33.81
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.00	26.91
	TOTAL				782.73
	Add 1% for water charges				7.83
	TOTAL				790.56
	Add 15% for contractor's profit and overheads				118.58
	Cost of 1 sqm.				909.14
	Say				909.15

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 lsqm.				
	Materials-				
2751	8mm thick marble tiles (polished) Raj nagar including wastage	sqm	1.061	294.00	311.93
9999	Carriage of tiles	L.S.	3.90	1.00	3.90
	12mm thick cement mortar 1:3(1 Cement: 3 Coarse sand)	cum	0.014	3 169.60	44.37
	(Rate as per items No. 3.8)				
9999	Mortar for pointing in white cement	L.S.	25.35	1.00	25.35
0367	Cement for slurry @ 3.3kg/sqm.	tonne	0.0033	4 500.00	14.85
9999	Pigment	L.S.	2.08	1.00	2.08
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0123	Mason 1st class	Day	0.25	151.50	37.88
0115	Coolie	Day	0.25	135.25	33.81
9999	Sundries including carriage of cement etc.	L.S.	16.90	1.00	16.90
	TOTAL				491.07
	Add 1% for water charges				4.91
	TOTAL				495.98
	Add .15% for contractor's profit and overheads				74.40
	Cost of 1 sqm.				570.38
	Say				570.40

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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. Materials- 18mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm.				
6001	Makrana white 2nd quality 18 mm thick marble slab	sqm	11.50	1 722.00	19 803.00
	Base mortar 1:4 (1 Cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 Kg. Total = 50 Kg.	cum	0.05	4 500.00	225.00
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91
	Labour- (for finishing, polishing and fixing)				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				22711.58
	Add 1% for water charges				227.12
	TOTAL				22 938.70
	Add 15% for contractor's profit and overheads				3 440.80
	Cost of 10 sqm.				26 379.50
	Cost of 1 sqm.				2 637.95
	Say				2 637.95

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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 :

11.23.2 : Raj Nagar plain.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15%= 1.50sqm.				
	Total = 11.50sqm.				
7071	Raj nagar plain 18 mm thick marble slab	sqm	11.5	415.00	4772.50
	Base mortar 1:4 (1 Cement: 4 Coarse sand) (Rate as per item No. 3.9)	cum	0.224	2578.45	577.57
0367	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.05	4500.00	225.00
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91
	Labour-				
	(for finishing, polishing and fixing)				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				7681.08
	Add 1% for water charges				76.81
	TOTAL				7757.89
	Add .15% for contractor's profit and overheads				1163.68
	Cost of 10 sqm.				8921.57
	Cost of 1 sqm.				892.16
	Say				892.15

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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 :

11.23.3 : Agaria White

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm.				
7850	Marble Stone Slab 18mm thick (Agaria White Spot less)	sqm	11.50	1 000.00	11 500.00
	Base mortar 1:4 cement: 4 Coarse sand) (Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cement for slurry @4.4 kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.05	4 500.00	225.00
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91

Code	Description	Unit	Quantity	Rate	Amount
	Labour-				
	(for finishing, polishing and fixing)				
0123	Mason 1 st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				14 408.58
	Add 1 % for water charges				144.09
	TOTAL				14 552.67
	Add 15% for contractor's profit and overheads				2 182.90
	Cost of 10 sqm.				16 735.57
	Cost of 1 sqm.				1 673.56
	Say				1 673.55

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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 :

11.23.4 : Black Zebra.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm.				
6019	Makrana Dhobi Doongri 18mm thick marble slab	sqm	11.5	415.00	4 772.50
	Base mortar 1:4, (1 Cement: 4 Coarse sand) (Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cement for slurry @ 4.4kg/sqm. (I) for bedding = 44 kg+ (ii) for jointing = 6 Kg.	tonne	0.05	4 500.00	225.00
	Total = 50 Kg.				
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91
	Labour-				
	(for finishing, polishing and fixing)				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				7 681.08
	Add 1% for water charges				76.81
	TOTAL				7 757.89
	Add 15% for contractor's profit and overheads				1 163.68
	Cost of 10 sqm.				8 921.57
	Cost of 1 sqm.				892.16
	Say				892.15

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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 :

11.23.5 : Udaipur green marble

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm.				
6010	Udaipur green marble 18 mm thick marble slab	sqm	11.50	580.00	6 670.00
	Base mortar 1:4(1 Cement : 4 Coarse sand) (Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cement for slurry @ 4.4kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.05	4 500.00	225.00
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91
	Labour-				
	(for finishing, polishing and fixing)				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				9 578.58
	Add 1% for water charges				95.79
	TOTAL				9 674.37
	Add 15% for contractor's profit and overheads				1451.16
	Cost of 10 sqm.				11 125.53
	Cost of 1 sqm.				1 112.55
	Say				1 112.55

11.23 : Marble stone flooring with 18mm thick marble stone (sample of marble shall be 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 :

11.23.6: Pink plain marble.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials-				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm.				
6007	Pink plain marble 18mm thick marble slab	sqm	11.50	546.00	6 279.00
	Base mortar 1:4(1 : Cement: 4coarse sand) (Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cemen for slurry @4.4Kg/sqm(i)for bedding = 44 kg+ (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.05	4 500.00	225.00
9999	Carriage of marble slab	L.S.	26.91	1.00	26.91
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
	(for finishing, polishing and fixing)				
0123	Mason 1st class	Day	1.20	151.50	181.80
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.00	134.55
	TOTAL				9187.58
	Add 1 % for water charges				91.88
	TOTAL				9279.46
	Add 15% for contractor's profit and overheads				1 391.92
	Cost of 10 sqm.				10 671.38
	Cost of 1 sqm.				1 067.14
	Say				1 067.15

11.24 : Extra for prefinished nosing to treads of steps of marble stone.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10m				
	Labour-				
0126	Mason (Ornamental) marble stone	Day	2.00	151.50	303.00
0114	Beldar	Day	1.50	135.25	202.88
0139	Beldar for rubbing and polishing (Special Rate)	Day	2.50	138.45	346.12
9999	Sundries	L.S.	53.82	1.00	53.82
	TOTAL				905.82
	Add 1 % for water charges				9.06
	TOTAL				914.88
	Add ,15% for contractor's profit and overheads				137.23
	Cost for 10m				1 052.11
	Cost for lm				105.21
	Say				105.20

11.25 : Extra for marble stone flooring in treads of steps and risers using single length upto 2.00 metre .

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Labour-				
0123	Mason 1st class	Day	1.95	151.50	295.42
0114	Beldar	Day	1.40	135.25	189.35
0115	Coolie	Day	0.75	135.25	101.44
0139	Beldar for rubbing and polishing (Special Rate)	Day	3.18	138.45	440.27
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				1 053.39
	Add 1 % for water charges				10.53
	TOTAL				1 063.92
	Add 15% for contractor's profit and overheads				159.59
	Cost for 10sqm.				1 223.51
	Cost for lsqm.				122.35
	Say				122.35

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 10sqm.				
	Materials-				
1168	25mm thick Kota stone slabs polished including 15% wastage	sqm	11.50	239.00	2 748.50
2216	Carriage of slabs	tonne	0.67	47.29	31.68
	Cement mortar 1:4(Rate as per item No. 3.9)	cum	0.224	2 578.45	577.57
0367	Cement for slurry-(i) for bedding = 44kg+ (ii) for joints = 20 kg. Total = 64 kg. or 0.064 tonne	tonne	0.064	4 500.00	288.00
2209	Carriage of cement	tonne	0.064	47.29	3.03
0874	Dark shade pigment	kilogram	4.50	42.00	189.00
	Labour-				
0124	Mason 2nd class	Day	1.20	141.60	169.92
0114	Beldar	Day	1.00	135.25	135.25
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	5.00	138.45	692.25
0013	Machine	Day	4.00	200.00	800.00
9999	Sundries	L.S.	208.13	1.00	208.13
	TOTAL				5 978.58
	Add 1% for water charges				59.79
	TOTAL				6 038.37
	Add 15% for contractor's profit and overheads				905.76
	Cost for 10sqm.				6 944.13
	Cost for 1 sqm.				694.41
	Say				694.40

11.27 : Kota stone slabs 25 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 10sqm.				
	Materials-				
1168	25mm thick Kota stone slabs polished including 15% wastage	sqm	11.50	239.00	2 748.50
2216	Carriage of slabs	tonne	0.67	47.29	31.68
	Cement mortar 1:3 (1 Cement: 3 Coarse sand) (Rate as per item No. 3.8)	cum	0.144	3 169.60	456.42
0367	Cement for slurry	tonne	0.064	4 500.00	288.00
2209	Carriage of cement	tonne	0.064	47.29	3.03
0874	Pigment dark shade	kilogram	4.50	42.00	189.00
	Labour-				
0124	Mason 2nd class	Day	3.00	141.60	424.80
0114	Beldar	Day	3.00	135.25	405.75
0115	Coolie	Day	1.00	135.25	135.25
0139	Beldar for rubbing and polishing (Special Rate)	Day	7.00	138.45	969.15

Code	Description	Unit	Quantity	Rate	Amount
9,999	Sundries	L.S.	174.98	1.00	174.98
	TOTAL				5 826.56
	Add 1% for water charges				58.27
	TOTAL				5 884.83
	Add 15% for contractor's profit and overheads				882.72
	Cost for 10sqm.				6 767.55
	Cost for 1sqm.				676.76
	Say				676.75

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 10sqm.				
	Materials				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	11.00	120.00	1 320.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement mortar 1:5 (1 Cement: 5 Coarse sand) (Rate as per item No. 3.10)	cum	0.25	2 260.15	565.04
	(i) for bedding = 0224 cum (ii) for joining = 0.026 cum. Total=0.250cum.				
	Labour-				
0123	Mason 1 st class	Day	3.10	151.50	469.65
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	0.55	135.25	74.39
0101	Bhisti	Day	0.27	138.45	37.38
9999	Sundries	L.S.	10.79	1.00	10.79
	TOTAL				2 663.61
	Ada tor water charges @ 1%				26.64
	TOTAL				2 690.25
	Add for contractor's profit and overheads @ 15%				403.54
	Cost for 10 sqm.				3 093.79
	Cost for 1sqm.				309.38
	Say				309.40

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.

11.28.2 : White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials				
	White sand stone				
	Finished work =10 sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	140.00	1 540.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement mortar 1:5 (1 cement :5 Course sand	cum	0.25	220.15	565.04

Code	Description	Unit	Quantity	Rate	Amount
	(Rate as per item No. 3.10)				
	(i) for bedding).224cum+ (ii) for joining = 0.026 cum. Total=0.250cum.				
	Labour-				
0123	Mason 1st class	Day	3.10	151.50	469.65
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	0.55	135.25	74.39
0101	Bhisti	Day	0.27	138.45	37.38
9999	Sundries	L.S.	10.79	1.00	10.79
	TOTAL				2 883.61
	Add for water charges @ 1%				28.84
	TOTAL				2 912.45
	Add for contractor's profit and overheads @ 15%;				436.87
	Cost for 10 sqm.				3 349.32
	Cost for 1sqm.				334.93
	Say				334.95

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.				
	Materials				
	Finished work 10 sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.00	120.00	1 320.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement mortar 1:5 (1 Cement: 5 Coarse sand) Rate as per item No.3.10	cum	0.25	2 260.15	565.04
	(i) for bedding = 0.224 cum+(ii) for joining = 0.026 cum. Total=0.250cum.				
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing Rate as per item No.3.12	cum	0.023	3 959.25	91.06
	Labour-				
0123	Mason 1st class	Day	3.90	151.50	590.85
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	1.40	135.25	189.35
0101	Bhisti	Day	0.55	138.45	76.15
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				3 045.72
	Add for water charges @ 1%				30.46
	TOTAL				3 076.18
	Add for contractor's profit and overheads @				461.43
	Cost for 10 sqm.				3 537.61
	Cost for 1 sqm.				353.76
	Say				353.75

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.

11.29.2: White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials				
	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	140.00	1 540.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement mortar 1:5(1 Cement: 5 Coarse sand) Rate as per item No.3.10 (i) for bedding = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.	cum	0.25	2 260.15	565.04
	Cement mortar 1:2(1 Cement: 2 stone dust for pointing) (Rate as per item No.3.12)	cum	0.023	3 959.25	91.06
	Labour-				
0123	Mason 1st class	Day	3.90	151.50	590.85
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	1.40	135.25	189.35
0101	Bhisti	Day	0.55	138.45	76.15
9999	Sundries	L.S.	26.91	1.00	26.91
	TOTAL				3 265.72
	Add for water charges @ 1%				32.66
	TOTAL				3 298.38
	Add for contractor's profit and overheads @ 15%				494.76
	Cost for 10 sqm.				3 793.14
	Cost for 1 sqm.				379.31
	Say				379.30

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 3mm 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 10sqm.				
	Materials				
	Finished work 10 sqm				
	Add wastage 10% = 1.00 sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	11.00	120.00	1320.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement Mortar 1:5 (1 Cement: 5 Coarse sand) Rate as per item No.3.10 (i) for bedding = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.	cum	0.25	2260.15	565.04
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing Rate as per item No.3.12	cum	0.023	3959.25	91.06
	Labour-				

Code	Description	Unit	Quantity	Rate	Amount
0123	Mason 1st class	Day	3.90	151.50	590.85
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	1.40	135.25	189.35
0101	Bhisti	Day	0.55	138.45	76.15
9999	Sundries	L.S.	26.91	1.00	26.91
	Labour for rubbing of stone				
0139	Beldar for rubbing (special rate)	Day	0.618	138.45	85.56
0013	Machine	Day	0.988	200.00	197.60
	TOTAL				3328.88
	Add for water charges @ 1%				33.29
	TOTAL				3362.17
	Add for contractor's profit and overheads @ 15%				504.33
	Cost for 10 sqm.				3866.50
	Cost for 1 sqm.				386.65
	Say				386.65

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 3mm 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

11.30.2: White sand stone

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Materials				
	Finished work 10 sqm				
	Add wastage 10%= 1.00 sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	140.00	1540.00
9999	Carriage	L.S.	34.06	1.00	34.06
	Cement Mortar 1:5(1 Cement: 5 Coarse sand) Rate as per item No. 3.10 (i) for bedding = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.	cum	0.25	2260.15	565.04
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing Rate as per item No. 3.12	cum	0.023	3959.25	91.06
	Labour-				
0123	Mason 1 st class	Day	3.90	151.50	590.85
0100	Bandhani	Day	1.10	138.45	152.30
0115	Coolie	Day	1.40	135.25	189.35
0101	Bhisti	Day	0.55	138.45	76.15
9999	Sundries	L.S.	26.91	1.00	26.91
	Labour for rubbing of stone				
0139	Beldar for rubbing (special rate)	Day	0.618	138.45	85.56
0013	Machine	Day	0.988	200.00	197.60
	TOTAL				3 548.88
	Add for water charges @ 1%				35.49
	TOTAL				3 584.37
	Add for contractor's profit and overheads@ 15%				537.66
	Cost for 10sqm.				4 122.03
	Cost for 1sqm.				412.20
	Say				412.20

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 10m				
	Labour-				
0126	Stone mason (ornamental)	Day	1.5	151.50	227.25
	TOTAL				227.25
	Add 1 % for water charges				2.27
	TOTAL				229.52
	Add 15% for contractor's profit and overheads				34.43
	TOTAL				263.95
	Cost for 10 sqm.				236.95
	Cost for lsqm.				26.40
	Say				26.40

11.32 : Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre .

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Labour-				
0124	Mason 2nd class	Day	0.20	141.60	28.32
0114	Beldar	Day	0.20	135.25	27.05
	TOTAL				55.37
	Add 1 % for water charges				0.55
	TOTAL.				55.92
	Add 15% for contractor's profit and overheads				8.39
	Cost for 10 sqm.				64.31
	Cost for 1 sqm.				6.43
	Say				6.45

11.33 : 25mm 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.				
	Materials-Second class indian teak wood				
	No of joints = 4000/138 = 28.97 = (29-l) = 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 indian teak wood	10 cudm	298.10	410.00	12222.10
1231	Extra for selected planks	10 cudm	298.10	72.00	2146.32
2204	Carriage of timber	cum	0.29810	60.81	18.13
0682	Iron screws 50 mm (slotted counters sunk head type)	100 Nos	200	40.00	80.00
	Labour-				
1111	Carpenter 1 st class	Day	2.68	151.50	406.02
1114	Beldar	Day	1.35	135.25	182.59
9999	Sundries for glue etc.	L.S.	33.28	1.00	33.28
	TOTAL				15088.44
	Add 1% for water charges				150.88
	TOTAL				15239.32
	Add 15 % for contractor's profit and overheads				2285.90
	Cost for 10 sqm.				17525.22
	Cost for 1 sqm.				1752.52
	Say				1752.50

11.33 : 25mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with :

11.33.2: Second class deodar wood

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2.5x4=10 sqm. Materials- First class deodar wood planks No of joints = 4000/138 = 28.97 = (29-l) = 28nos Qty of wood required 2.5(4+0.336)x0.025 = 0.271 cum Add wastage @ 10 % = 0.027 cum = 0.2981 cum = 298.10 cudm -				
1194	First class deodar wood planks	10 cudm	298.10	335.00	9 986.35
2500	Extra for selected planks	10 cudm	298.10	59.00	1 758.79
2204	Carriage of timber	cum	0.2981	60.81	18.13
682	Iron screws 50 mm (slotted counters sunk head type)	100 Nos	200	40.00	80.00
	Labour-				
0111	Carpenter 1 st class	Day	2.16	151.50	327.24
0114	Beldar	Day	1.08	135.25	146.07
9999	Sundries for glue etc.	L.S.	26.91	1.00	26.91
	TOTAL				12 343.49
	Add 1 % for water charges				123.43
	TOTAL				12 466.92
	Add 15% for contractor's profit and overheads				1 870.04
	Cost for 10 sqm.				14 336.96
	Cost for 1 sqm.				1 433.70
	Say				1 433.70

11.34 : 38mm thick wood block flooring of first class teak wood laid over 25mm thick levelling 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) upto half depth, planed, levelled smooth and finished complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for l sqm. Bitumen blown type i) For bed layer @ 2.45kg/sqm. = 2.45kg+ ii) For dipping blocks L.S. = 2.00Kg. = 4.45kg.				
0313	Bitumen blown type	tonne	0.0044	25000.00	110.00
2211	Carriage of bitumen	tonne	0.0044	53.21	0.23
	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	1st class teak wood in scanting for wooden blocks	10 cudm	41.80	492.00	2 056.56
2204	Carriage of timber	cum	0.0418	60.81	2.54
	Labour-				
0111	Carpenter 1st class	Day	1.75	151.50	265.12
0114	Beldar	Day	2.25	135.25	304.31

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	1.50	135.25	202.88
0130	Mistry	Day	0.10	151.50	15.15
9999	Sundries such as fuel, kerosene oil, sand paper	L.S.	80.73	1.00	80.73
	TOTAL				3 037.52
	Add 1% for water charges				30.38
	TOTAL				3 067.90
	Add 10% for contractor's profit and overheads				460.18
	Cost for 1 sqm.				3 528.08
	Say				3 528.10

11.35 : Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm 10cm long forked at end 60cm apart (minimum three lugs to be provided) including necessay 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 (15.39+0.2kg= 15.63kg)				
	Materials-				
	angle iron 50x50x5 mm +3m				
	Add wastage @ 5% +0.15m				
	Total = 3.15m @ 5.13kg per m +16.16 kg				
	Say 0.162 qutl				
1007	Angle iron	quintal	0.162	3100.00	502.20
	Lugs 10x5 mm flat +6x0.10+0.60.@0.40 kg per m = 0.24 kg				
	Add wastage @ 5% = 0.012 kg				
1008	M.S. flats (Total 0.252 kg or 0.0025 qtl)	quintal	0.0025	2900.00	7.25
2205	Carriage of steel	tonne	0.016	47.29	0.76
1215	Welding charges 6cm (lugs) by electrical plant	cm	6.00	1.00	6.00
9999	Sundries	L.S.	9.10	1.00	9.10
	Labour-				
0103	Blacksmith 2nd class	Day	0.09	141.60	12.47
0123	Mason 1st class	Day	0.45	151.50	68.18
0114	Beldar	Day	0.25	135.25	33.81
	(A) Priming coat 1x3x0.60 sqm				
	(Rate as per item no 13.50.3)	sqm	0.06	12.65	7.59
	TOTAL				647.63
	Add for water charges @ 1% on all except on (A)				6.40
	TOTAL				654.03
	Add for contractor's profit and overheads @15% on all except on (A)				96.97
	Cost for 15.63 kg				751.00
	Cost per 1 kg				48.05
	Say				48.05

11.36 : Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture 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 @ 3.3kg 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 sqm				
	Materials-				
	Ceramic Glazed tiles = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm = 1.025 sqm				
7800	Tiles	Sqm.	1.025	268.00	274.70
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand (Rate as per item No. 3.8)	cum	0.014	3 169.60	44.37
9999	Mortar for pointing in white cement	L.S.	40.43	1.00	40.43
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1 st class	Day	0.25	151.50	37.88
0115	Coolie	Day	0.25	135.25	33.81
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				479.19
	Add for water charges @ 1 %				4.79
	TOTAL				483.98
	Add for contractor's profit and overheads @ 15%				72.60
	Cost for 1 sqm				556.58
	Say				556.60

11.37 : Providing and laying Ceramic glazed floor tiles 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				
	Materials-				
	Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm = Total 1.025 sqm				
7801	Tiles	Sq.m.	1.025	320.00	328.00
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	2578.45	0.024	61.88
9999	Mortar for pointing in white cement	L.S.	1.00	20.20	20.20
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	4500.00	0.0033	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				515.43
	Add for water charges @ 1%				5.15
	TOTAL				520.58
	Add for contractor's profit and overheads @ 15%				78.09
	Cost for 1 sqm				598.67
	Say				598.65

11.38 : Providing and laying Ceramic glazed floor tiles 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 20mm 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				
	Materials-				
	Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm = Total 1.025 sqm				
7802	Tiles	Sq.m.	1.025	347.00	355.67
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.024	2 578.45	61.88
9999	Mortar for pointing in white cement	L.S.	20.20	1.00	20.20
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1 st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				543.10
	Add for water charges @ 1 %				5.43
	TOTAL				548.53
	Add for contractor's profit and overheads @15%				82.28
	Cost for 1 sqm				630.81
	Say				630.80

11.39 : Providing and laying rectified Glazed Ceramic floor tiles 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 20mm 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				
	Materials-				
	Rectified glazed Ceramic floor tiles 300x300mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
7803	Total = 1.025 sqm	sqm	1.025	462.00	473.55
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.024	2 578.45	61.88
9999	Mortar for pointing in white cement	L.S.	13.47	1.00	13.47
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				654.25
	Add for water charges @ 1%				6.54
	TOTAL				660.79
	Add for contractor's profit and overheads @ 15 %				99.12
	Cost for 1 sqm				759.91
	Say				759.90

11.40 : Providing and laying rectified Glazed Ceramic floor tiles 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				
	Materials-				
	Rectified Glazed Ceramic floor tiles 200x300 mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
7804	Total = 1.025 sqm	sqm	1.025	496.00	508.40
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand).	cum	0.024	2 578.45	61.88
9999	Mortar for pointing in white cement	L.S.	13.47	1.00	13.47
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				689.10
	Add for water charges @ 1 %				6.89
	TOTAL				695.99
	Add for contractor's profit and overheads @ 15%				104.40
	Cost for 1 sqm				800.39
	Say				800.40

11.41 : Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm 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 50x50 cm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
	Materials-				
	Porcelain floor tiles 50x50 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
8620	Total = 1.025 sqm	sqm	1.025	645.00	661.13
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)(Rate as per item No. 3.9)	cum	0.024	2 578.45	61.88
9999	Mortar for pointing in white cement	L.S.	3.64	1.00	3.64
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				832.00
	Add for water charges @ 1%				8.32

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				840.32
	Add for contractor's profit and overheads @ 15%				126.05
	Cost for 1 sqm				966.37
	Say				966.35

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4(1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.

11.41.2 Size of Tile 60x60 cm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
	Materials-				
	Porcelain floor tiles 60x60 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
8621	Total = 1.025 sqm	sqm	1.025	700.00	717.50
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	2578.45	61.88
	(Rate as per item no. 3.90)				
9999	Mortar for pointing in white cement	L.S.	3.64	1.00	3.64
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4500.00	14.85
	Labour:				
0123	Mason $^{1\ st}$ class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				888.37
	Add for water charges @ 1 %				8.88
	TOTAL				897.25
	Add for contractor's profit and overheads @ 15%				134.59
	Cost for 1 sqm				1031.84
	Say				1031.85

11.41 : Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.

11.41.3 : Size of Tile 80x80 cm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
	Materials-				
	Porcelain floor tiles 80x80 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				

Code	Description	Unit	Quantity	Rate	Amount
8622	Total = 1.025 sqm	sqm	1.025	1076.00	1102.90
9999	Carriage of tiles	L.S.	2.40	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.024	2 578.45	61.88
9999	Mortar for pointing in white cement	L.S.	2.60	1.00	2.60
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4 500.00	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				1272.73
	Add for water charges @ 1%				12.73
	TOTAL				1285.46
	Add for contractor's profit and overheads @ 15%				192.82
	Cost for 1 sqm				1478.28
	Say				1478.30

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.

11.41.4: Size of Tile 100x100 cm

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
	Materials-				
	Porcelain floor				
	tiles 100x100 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
8623	Total = 1.025 sqm	sqm	1.025	1290.00	1322.25
9999	Carriage of tiles	L.S.	6.24	1.00	6.24
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand). (Rate as per item No. 3.9)	cum	0.024	2578.45	61.88
9999	Mortar for pointing in white cement	L.S.	2.60	1.00	2.60
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.003	4500.00	14.85
	Labour:				
0123	Mason 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries including carriage of cement etc	L.S.	26.91	1.00	26.91
	TOTAL				1492.08
	Add for water charges @ 1 %				14.92
	TOTAL				1507.00
	Add for contractor's profit and overheads @ 15%				226.05
	Cost for 1 sqm				1733.05
	Say				1733.05

11.42: Deduet for not using 20mm 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				
	MATERIALS				
	Cement Mortar. 1:4 (1 cement: 4 coarse sand). (Rate as per item No. 3.9)	cum	0.024	2578.45	61.88
9999	Mortar foer pornting in whicte cement	L.S.	40.43	1.00	40.45
0367	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	4500.00	14.85
	LABOUR:-				
0123	Mason (brick layer) 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.00	26.91
	Total				201.42
	Add for water charges @ 1%				2.01
	Total				203.43
	Add for contractor profit and overhead @ 15%				30.51
	Cost for 1 sqm				233.94
	Say				233.95

11.43: Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sqm of tile area, in average 3mm thickness.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm				
	MATERIALS				
8731	High polymer modified quickset tile adhesive.	per kg	5.00	13.75	68.75
9999	Mortar for pointing in white cement	L.S.	40.43	1.00	40.43
	LABOUR:-				
0123	Mason (brick layer) 1st class	Day	0.20	151.50	30.30
0115	Coolie	Day	0.20	135.25	27.05
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.00	26.91
	Total				193.44
	Add for water charges @ 1%				1.93
	Total				195.37
	Add for contractor profit and overhead @ 15%				29.31
	Cost for 1 sqm				224.68
	Say				224.70

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 and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets 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.

12.1.1 1.00mm thick with zinc coating not less than 275gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	Considering a roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal Details of cost for area of roof. 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Materials: C.G.S. sheets 2x27 =54 nos. of size 2.5x0.9 metre @19.35 Kg each =1044.90Kg. 2x27=54 nos. of size 2.8xO.9@21.67kg. each = 1170.18Kg. Total = 2215.08Kg.+ Add 5% Wastage = 110.75Kg. = 2325.83 Kg. 23.26 quintals				
3050	(a) C.G.S. sheets	quintal	23.26	3 650.00	84899.00
2302	(b) Carriage of sheet	tonne	2.326	47.29	110.00
	(c) 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.				
1022	Bolts and nuts	10 Nos	884.00	9.00	795.60
	(d) 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	G.I., J or L hooks	10 Nos	810.00	58.00	4698.00
1207	(e) Limpet washers (total of seam and J bolts) 884+810=1694	100 Nos	1694.00	20.00	338.80
1208	(f) Bitumen washers	100 Nos	1694.00	18.00	304.92
9999	(g) Carriage of bolts and washers	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	53.82	1.00	53.82
	Labour:				
0130	Mistry	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	15.50	141.60	2194.80
0114	Beldar	Day	15.50	135.25	2096.38
4202	Zink chromate yellow primer	litre	2.53	58.00	146.74
9999	Carriage of material	L.S.	0.52	1.00	0.52
0131	Painter	Day	1.13	141.60	160.01
0115	Coolie	Day	1.13	135.25	152.83
9999	Brushes, sand papers i/c sundries	L.S.	50.57	1.00	50.57
0845	Ready mixed paint on new work	litre	3.75	95.00	356.25
9999	Carriage of paint	L.S.	6.76	1.00	6.76
0131	Painter	Day	2.53	141.60	358.25

Code	Description	Unit	Quantity	Rate	Amount
0115	Coolie	Day	2.53	135.25	342.18
9,999	Brushes and Sandpapers	L.S.	31.98	1.00	31.98
9,999	Sundries	L.S.	38.09	1.00	38.09
	TOTAL				97359.36
	Add 1% for water charges				973.59
	TOTAL				98332.95
	Add 15% for contractor's profit and overheads				14749.94
	Cost of 184.518 Sqm.				113082.89
	Cost of 1 Sqm.				612.86
	Say				612.85

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 and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets 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.

12.1.2 0.80mm thick with zinc coating not less than 275gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	Considering a roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal Details of cost for area of roof. 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Length 26(laps)xO.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 = 5.1 m Materials: 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 l.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. = 1901.72Kg				
3050	(a) Sheets	quintal	19.02	3650.00	69423.00
2302	(b) Carriage of sheet	tonne	1.902	47.29	89.95
	(c) G.I. seam bolts and nuts 60cm				

Code	Description	Unit	Quantity	Rate	Amount
	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	Bolts and nuts (d) 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	9.00	795.60
1023	G.I. J or L hooks	10 Nos	810.00	58.00	4698.00
1207	(e) Limpet washers (total of seam and J bolts) 884+810=1694	100 Nos	1694.00	20.00	338.80
1208	(f) Bitumen washers	100 Nos	1694.00	18.00	304.92
9999	(g) Carriage of bolts and washers	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	53.82	1.00	53.82
	Labour:				
0130	Mistry	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	15.50	141.60	2194.80
0114	Beldar	Day	15.50	135.25	2096.38
4202	Zink chromate yellow primer	litre	2.53	58.00	146.74
9999	Carriage of material	L.S.	0.52	1.00	0.52
0131	Painter	Day	1.13	141.60	160.01
0115	Coolie	Day	1.13	135.25	152.83
9999	Brushes, sand papers i/c sundries	L.S.	50.57	1.00	50.57
0845	Ready mixed paint on new work	litre	3.75	95.00	356.25
9,999	Carriage of paint	L.S.	6.76	1.00	6.76
0131	Painter	Day	2.53	141.60	358.25
0115	Coolie	Day	2.53	135.25	342.18
9999	Brushes and Sandpapers	L.S.	31.98	1.00	31.98
9999	Sundries	L.S.	38.09	1.00	38.09
	TOTAL				81863.31
	Add 1 % for water charges				818.63
	TOTAL				82681.94
	Add 15% for contractor's profit and overheads				12402.29
	Cost of 184.518 Sqm.				95084.23
	Cost of 1 Sqm.				515.31
	Say				515.30

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 and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets 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.

12.1.3 0.63 mm thick with zinc coating not less than 275gm/sqm

Code	Description	Unit	Quantity	Rate	Amount
	Considering a roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal Details of cost for area of roof. 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Length				

Code	Description	Unit	Quantity	Rate	Amount
	26(laps)xO.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 Materials: C.G.I.Sheets 0.8mm thick 2x27=54nos. @12.82Kg.each = 692.28 Kg(X) 2.5mxO.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mxO.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. = 1541.11HKg				
3050	(a) Sheets	quintal	15.41	3650.00	56246.50
2302	(b) Carriage of sheet	tonne	1.54	47.29	72.83
	(c) 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	Bolts and nuts	10 Nos	884.00	9.00	795.60
	(d) 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	G.I. J or L hooks	10 Nos	810.00	58.00	4698.00
1207	(e) Limpet washers (total of seam and J bolts) 884+810= 1694	100 Nos	1694.00	20.00	338.80
1208	(f) Bitumen washers	100 Nos	1694.00	18.00	304.92
9999	(g) Carriage of bolts and washers	L.S.	26.91	1.00	29.91
9999	Sundries	L.S.	53.82	1.00	53.82
	Labour:				
0130	Mistry	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	15.50	141.60	2194.80
0114	Beldar	Day	15.50	135.25	2096.38
4202	Zink chromate yellow primer	litre	2.53	58.00	146.74
9999	Carriage of material	L.S.	0.52	1.00	0.52
0131	Painter	Day	1.13	141.60	160.01
0115	Coolie	Day	1.13	135.25	152.83
9999	Brushes, sand papers i/c sundries	L.S.	50.57	1.00	50.57
0845	Ready mixed paint on new work	litre	3.75	95.00	356.25
9999	Carriage of paint	L.S.	6.76	1.00	6.76

Code	Description	Unit	Quantity	Rate	Amount
0131	Painter	Day	2.53	141.60	358.25
0115	Coolie	Day	2.53	135.25	342.18
9,999	Brushes and Sandpapers	L.S.	31.98	1.00	31.98
9,999	Sundries	L.S.	38.09	1.00	38.09
	TOTAL				68669.69
	Add 1 % for water charges				686.70
	TOTAL				69356.39
	Add 15% for contractor's profit and overheads				10403.46
	Cost of 184.518 Sqm.				79759.85
	Cost of 1 Sqm.				432.26
	Say				432.25

12.2 Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light 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 first class	Day	0.15	151.50	22.72
0114	Beldar	Day	0.15	135.25	20.29
	TOTAL				43.01
	Add 1 % for water charges				0.43
	TOTAL				43.44
	Add 15% for contractor's profit and overheads				6.52
	Cost of 3.00 metres				49.96
	Cost of 1.00 metre				16.65
	Say				16.65

12.2 Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc.:

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 first class	Day	0.12	151.50	18.18
0114	Beldar	Day	0.12	135.25	16.23
	TOTAL				34.41
	Add 1 % for water charges				0.34
	TOTAL				34.75
	Add 10% for contractor's profit and overheads				5.21
	Cost of 3.00 metres				39.96
	Cost of 1.00 metre				13.32
	Say				13.30

12.2 Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc. :

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 first class	Day	0.12	151.50	18.18
0114	Beldar	Day	0.12	135.25	16.23
	TOTAL				34.41
	Add 1 % for water charges				0.34
	TOTAL				34.75
	Add 10% for contractor's profit and overheads				5.21
	Cost of 3.00 metres				39.96
	Cost of 1.00 metre				13.32
	Say				13.30

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 10x22/7x0.5 = 15.71 metre				
	Labour:				
0102	Blacksmith first class	Day	3.13	151.50	474.20
0114	Beldar	Day	6.26	135.25	846.66
	TOTAL				1320.86
	Add 1 % for water charges				13.21
	TOTAL				1334.07
	Add 15% for contractor's profit and overheads				200.11
	Cost of 15.71 metres				1534.18
	Cost of 1.00 metre				97.66
	Say				97.65

12.3 Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter :

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 10x22/7x0.5 =15.71 metre				
	Labour:				
0102	Blacksmith first class	Day	2.50	151.50	378.75
0114	Beldar	Day	5.00	135.25	676.25
	TOTAL				1055.00
	Add 1% for water charges				10.55
	TOTAL				1065.55
	Add 15% for contractor's profit and overheads				159.83
	Cost of 15.71 metres				1225.38
	Cost of 1.00 metre				78.00
	Say				78.00

12.3 Extra for circular cutting in C.G.S. sheet roofing formaking opening of area exceeding 40 square decimeter:

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 10x22/7x0.5 = 15.71 metre				
	Labour:				
0102	Blacksmith first class	Day	2.50	151.50	378.75
0114	Beldar	Day	5.00	135.25	676.25
	TOTAL				1055.00
	Add 1% for water charges				10.55
	TOTAL				1065.55
	Add 15% for contractor's profit and overheads				159.83
	Cost of 15.71 metres				1225.38
	Cost of 1.00 metre				78.00
	Say				78.00

12.4 Providing ridges or hips of width 60 cm over all 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 0.80mm thick with zinc coating not less than 275gm/m^2

Code	Description	Unit	Quantity	Rate	Amount
	0.80mm thick with zinc coating not less than 275gm/m^2				
	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.				
	= 58.09 Kg. or 0.58 qunital				
0992	G.I. plain sheets	quintal	0.58	3450.00	2 001.00
2302	Carriage of sheets	tonne	0.058	47.29	2.74
	G.I. seam bolts and nuts- 25mmx6mm (There are 14 joints)				
0222	G.I. seam bolts and nuts	10 Nos	28.0	30.00	84.00
1211	G.I. plain washers	100 Nos	28.0	21.00	5.88
1208	Bitumen washers	100 Nos	28.0	18.00	5.04
9999	Carriage of seam bolts and washers	L.S.	1.82	1.00	1.82
9999	Sundries	L.S.	13.52	1.00	13.52
	Labour:				
0130	Mistry	Day	0.40	151.50	60.60
0102	Blacksmith first class	Day	1.20	151.50	181.80
0103	Blacksmith 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	2.40	135.25	324.60
	TOTAL				2794.28
	Add 1% for water charges				27.94
	TOTAL				2822.22
	Add 15% for contractor's profit and overheads				423.33
	Cost of 10.35 metres				3245.55
	Cost of 1.00 metre				313.58
	Say				313.60

12.4 Providing ridges or hips of width 60 cm over all 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.

12.4.2 0.63mm thick with zinc coating not less than 275gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.35 metre long ridge.				
	G.I.plain sheets 0.63mm thick				
	1.8xO.9m size 5 nos. @9.23 Kg. per sheet = 46.15 Kg.+				
	Add 2% wastage = 0.91 Kg.				
	= 47.07 Kg.				
	Say 47 Kg.				
0992	G.I. plain sheets	quintal	0.47	3450.00	1621.50
2302	Carriage of sheets	tonne	0.047	47.29	2.22
	G.I. seam bolts and nuts-				
	25mmx6mm (There are 14 joints)				
0222	G.I. seam bolts and nuts	10 Nos	28.00	30.00	84.00
1211	G.I. plain washers	100 Nos	28.00	21.00	5.88
1208	Bitumen washers	100 Nos	28.00	18.00	5.04
9999	Carriage of seam bolts and washers	L.S.	1.82	1.00	1.82
9999	Sundries	L.S.	13.52	1.00	13.52
	Labour:				
0130	Mistry	Day	0.40	151.50	60.60
0102	Blacksmith first class	Day	1.20	151.50	181.80
0103	Blacksmith 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	2.40	135.25	324.60
	TOTAL				2414.26
	Add 1% for water charges				24.14
	TOTAL				2438.40
	Add 15% for contractor's profit and overheads				365.76
	Cost of 10.35 metres				2804.16
	Cost of 1.00 metre				270.93
	Say				270.95

12.5 Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8mm dia.. G.I. limpet and bitumen washers complete :

12.5.1 1.60mm thick with zinc coating not less than 350gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9.325m				
	Materials:				
	G.I. plain sheets 2.5xO.9m				
	4 nos. @ 29.95Kg/sheet =119.80Kg.+				
	Add 2% wastage = 2.40Kg.				
	= 122.20 kg. or 1.222quintal				
0992	G.I. plain sheets	quintal	1.222	3 450.00	4215.90
2302	Carriage of sheets	tonne	0.12	47.29	5.67
	G.I. seam bolts and nuts-				
	25mmx6mm (There are 14 joints)				
0222	G.I. seam bolts and nuts	10 Nos	12.00	30.00	36.00
1211	G.I. plain washers	100 Nos	12.00	21.00	2.52
1208	Bitumen washers	100 Nos	12.00	18.00	2.16
9999	Carriage of bolts, nuts and washers	L.S.	0.91	1.00	0.91
9999	Sundries	L.S.	13.52	1.00	13.52
	Labour:				
0130	Mistry	Day	0.40	151.50	60.60

Code	Description	Unit	Quantity	Rate	Amount
0102	Blacksmith first class	Day	1.20	151.50	181.80
0103	Blacksmith 2nd class	Day	0.80	141.60	113.28
0114	Beldar	Day	2.40	135.25	324.60
	TOTAL				4956.96
	Add 1% for water charges				49.57
	TOTAL				5006.53
	Add 15% for contractor's profit and overheads				750.98
	Cost of 9.325 metres				5757.51
	Cost of 1.00 metre				617.43
	Say				617.45

12.6 Providing flashing of 40 cm over all width in 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 (1 cement: 3 coarse sand).

12.6.1 1.00mm thick with zinc coating not less than 275gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 12.125m Consider a length of flashing 12.125 metres. Materials: G.I. plain sheet 1.25mm thick 3.2xO.75m 2 nos. @ 20.64 Kg. =41.28 Kg.+ Add 2% wastage = 0.83 Kg = 42.11 Kg. or 0.4211 quintal				
0992	G.I. plain sheets	quintal	0.4211	3 450.00	1 452.79
2302	Carriage of sheets	tonne	0.041	47.29	1.94
	G.I. seam bolts and nuts-25mmx6mm (taking 2 bolts per joints)				
0222	G.I. seam bolts and nuts	10 Nos	6.00	30.00	18.00
1207	Limpet washers	100 Nos	6.00	20.00	1.20
1208	Bitumen washers	100 Nos	6.00	18.00	1.08
9999	Carriage of G.I. seam bolts and washers	L.S.	0.39	1.00	0.39
9999	sundries	L.S.	10.79	1.00	10.79
	Labour:				
0130	Mistry	Day	0.50	151.50	75.75
0102	Blacksmith first class	Day	1.48	151.50	224.22
0103	Blacksmith 2nd class	Day	1.00	141.60	141.60
0114	Beldar	Day	3.00	135.25	405.75
	TOTAL				2 333.51
	Add 1 % for water charges				23.34
	TOTAL				2 356.85
	Add 15% for contractor's profit and overheads				353.53
	Cost of 12.125 metres				2 710.38
	Cost of 1.00 metre				223.54
	Say				223.55

12.7: Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.

12.7.1: 0.80mm thick with zinc coating not less than 275gm/m²

Code	Description	Unit	Quantity	Rate	Amount
	0.80mm thick with zinc coating not less than 275gm/m²				

Code	Description	Unit	Quantity	Rate	Amount
	Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 nos. Wt. = 2x15.82=31.64 Kg. = 0.3164quintal				
0992	G.I. plain sheets	quintal	0.3164	3 450.00	1091.58
2302	Carriage of sheets	tonne	0.0316	47.29	1.49
1008	Flats upto 10 mm in thickness	quintal	0.0749	2900.00	217.21
1022	Galvanised steel bolts and nuts 6 mm dia and 25 mm long round head with slot	10 Nos	20.0	9.00	18.00
1024	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	each	30.0	7.00	210.00
1210	G.I. plain washers thin	100 Nos	70.00	20.00	14.00
1208	Bitumen washers	100 Nos	40.00	18.00	7.20
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	5.33	1.00	5.33
	Labour:				
0102	Blacksmith first class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	12.61	1.00	12.61
0130	Mistry	Day	0.28	151.50	42.42
0102	Blacksmith first class	Day	0.84	151.50	127.26
0112	Carpenter 2nd class	Day	0.62	141.60	87.79
0114	Beldar	Day	1.68	135.25	227.22
	TOTAL				2 208.21
	Add 1 % for water charges				22.08
	TOTAL				2 230.29
	Add 15 % for contractor's profit and overheads				334.54
	Cost of 9.04 metres				2 564.83
	Cost of 1.00 metre				283.72
	Say				283.70

12.7 : Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.

12.7.2 : 0.63mm thick with zinc coating not less than 275gm/m^2

Code	Description	Unit	Quantity	Rate	Amount
	0.63mm thick with zinc coating not less than 275gm/m^2 Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 nos. Wt. = 2x11.82=23.64 Kg. = 0.2364quintal				
0992	G.I. plain sheets	quintal	0.2364	3 450.00	815.58
2302	Carriage of sheets	tonne	0.0236	47.29	1.12
1008	Flats upto 10 mm in thickness	quintal	0.0749	2 900.00	217.21
1022	Galvanised steel bolts and nuts 6 mm dia and 25 mm long round head with slot	10 Nos	20.00	9.00	18.00
1024	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	each	30.00	7.00	210.00

Code	Description	Unit	Quantity	Rate	Amount
1210	G.I. plain washers thin	100 Nos	70.00	20.00	14.00
1208	Bitumen washers	100 Nos	40.00	18.00	7.20
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	5.33	1.00	5.33
	Labour:				
0102	Blacksmith first class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	12.61	1.00	12.61
0130	Mistry	Day	0.28	151.50	42.42
0102	Blacksmith first class	Day	0.84	151.50	127.26
0112	Carpenter 2nd class	Day	0.62	141.60	87.79
0114	Beldar	Day	1.68	135.25	227.22
	TOTAL				1931.84
	Add 1% for water charges				19.32
	TOTAL				1951.16
	Add 15% for contractor's profit and overheads				292.67
	Cost of 9.04 metres				2243.83
	Cost of 1.00 metre				248.21
	Say				248.20

12.8 Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (As per IS: 14871) roofing upto any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm 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 corrugated sheets and including cutting to size and shape wherever required

Code	Description	Unit	Quantity	Rate	Amount
	Upto 60 degree pitch Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- 20.2x10.70m = 216.14 sqm. Materials: Sheets used = 2x20 nos. x3.00 mx 1.05m= 126.00sqm+ 2x20nos.x2.50mx1.05m=105.00sqm. = 231.00sqm. + Add 3% wastage = 6.93 = 237.93sqm.				
0223	Non - Asbestos fibre cement corrugated sheet 6mm 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	205.00	48775.65
2273	Carriage of sheets	tonne	3.184	47.29	150.57
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	476.00	58.00	2760.80
1208	Bitumen washers	100 Nos	476.00	18.00	85.68
1209	Bitumen washers thick	100 Nos	476.00	27.00	128.52
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.06	1.00	8.06
9999	Sundries	L.S.	39.52	1.00	39.52
	Labour:				
0130	Mistry	Day	2.34	151.50	354.51
0112	Carpenter 2nd class	Day	9.34	141.60	1322.54
0114	Beldar	Day	9.34	135.25	1263.23

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				54889.08
	Add 1% for water charges				548.89
	TOTAL				55437.97
	Add,.10% for contractor's profit and overheads				8315.70
	Cost of 216.14 sqm.				63753.67
	Cost of 1.00 sqm.				294.96
	Say				294.95

12.9 : Extra for straight cutting in non- asbestos 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 of periphery				
	Area of cutting 0.9mx0.6m=0.54sqm.				
	Perimeter = 3 metres				
	Labour:				
0111	Carpenter 1st class	Day	0.12	151.50	18.18
0114	Beldar	Day	0.12	135.25	16.23
	TOTAL				34.41
	Add 1% for water charges				0.34
	TOTAL				34.75
	Add 15 % for contractor's profit and overheads				5.21
	Cost for 3.00 metres				39.96
	Cost for 1.00 metre of periphery				13.32
	Say				13.30

12.10 Extra for circular cutting in non-asbestos 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 1 st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				286.75
	Add 1% for water charges				2.87
	TOTAL				289.62
	Add 15% for contractor's profit and overheads				43.44
	Cost for 9.05 metres				333.06
	Cost for 1.00 metre of periphery				36.80
	Say				36.80

12.11: Extra for providing and fixing wind ties of 40x 6mm flat iron section

Code	Description	Unit	Quantity	Rate	Amount
	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 upto 10 mm in thickness	quintal	0.5985	2 900.00	1 735.65
2205	Carriage of sheet	tonne	0.06	47.29	2.84

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	20.67	1.00	20.67
0102	Blacksmith first class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				1 902.53
	Add 1% for water charges				19.03
	TOTAL				1921.56
	Add 15% for'contractor's profit and overheads				288.23
	Cost of 30.00 metres				2 209.79
	Cost of 1.00 metre				73.66
	Say				73.65

12.12 Providing and fixing ridges and hips in non-asbestos 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
	One piece corrugated serrated adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre Materials: 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	Non - Asbestos fibre cement corrugate serrated adjustable ridge.	metre	24.339	174.00	4 234.99
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.00	13.52
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour:				
0130	Mistry	Day	0.14	151.50	21.21
0112	Carpenter 2nd class	Day	0.55	141.60	77.88
0114	Beldar	Day	1.64	135.25	221.81
	TOTAL				4 576.17
	Add 1% for water charges				45.76
	TOTAL				4 621.93
	Add 15% for contractor's profit and overheads				693.29
	Cost of 20.20 metre				5 315.22
	Cost of 1.00 metre				263.13
	Say				263.15

12.12 : Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.

12.12.2 : Plain wing adjustable ridges

Code	Description	Unit	Quantity	Rate	Amount
	Plain wing adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre Materials:				

Code	Description	Unit	Quantity	Rate	Amount
	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	Non - Asbestos fibre cement plain wing adjustable ridge.	metre	24.339	188.00	4 575.73
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.00	13.52
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour:				
0130	Mistry	Day	0.14	151.50	21.21
0112	Carpenter 2nd class	Day	0.55	141.60	77.88
0114	Beldar	Day	1.64	135.25	221.81
	TOTAL				4 916.91
	Add 1 % for water charges				49.17
	TOTAL				4 966.08
	Add 15% for contractor's profit and overheads				744.91
	Cost of 20.20 metre				5 710.99
	Cost of 1.00 metre				282.72
	Say				282.70

12.12 : Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.

12.12.3: Close fitting adjustable ridges

Code	Description	Unit	Quantity	Rate	Amount
	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. = 23.10 nos.x 1.22= 28.182 metre				
0224	Non - Asbestos fibre cement close fitting adjustable ridge.	metre	28.182	203.00	5 720.95
9999	Carriage	L.S.	16.12	1.00	16.12
9999	Sundries	L.S.	7.15	1.00	7.15
	Labour:				
0130	Mistry	Day	0.14	151.50	21.21
0112	Carpenter 2nd class	Day	0.55	141.60	77.88
0114	Beldar	Day	1.64	135.25	221.81
	TOTAL				6 065.12
	Add 1% for water charges				60.65
	TOTAL				6 125.77
	Add 15% for contractor's profit and overheads				918.87
	Cost of 20.20 metre				7 044.64
	Cost of 1.00 metre				348.74
	Say				348.75

12.12 Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.

12.12.4 Unserrated adjustable hips

Code	Description	Unit	Quantity	Rate	Amount
	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 = 19.95 pairs x 1.22 = 24.339 metre				
0227	Non - Asbestos fibre cement unserrated adjustable ridge for hips.	metre	24.339	195.00	4 746.10
9999	Carriage	L.S.	6.76	1.00	6.76
9999	Sundries	L.S.	6.63	1.00	6.63
	Labour:				
0130	Mistry	Day	0.14	151.50	21.21
0112	Carpenter 2nd class	Day	0.55	141.60	77.88
0114	Beldar	Day	1.64	135.25	221.81
	TOTAL				5 080.39
	Add 1% for water charges				50.80
	TOTAL				5 131.19
	Add 15% for contractor's profit and overheads				769.68
	Cost of 20.20 metre				5 900.87
	Cost of 1.00 metre				292.12
	Say				292.10

12.13 : Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories in all colour 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 for shed of 20.2 metres completed length Materials: Corrugated appron pieces of 1.12 metre length = 20 nos.+ Add 5% wastage = 1.0 No. = 21 nos.x 1.12=23.52 metre				
0228	Non - Asbestos fibre cement corrugated appron piece.	metre	23.52	126.00	2 963.52
9999	Carriage of appron pieces. (The appron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.00	3.25
9999	Sundries	L.S.	3.25	1.00	3.25
	Labour:				
0130	Mistry	Day	0.07	151.50	10.60
0112	Carpenter 2nd class	Day	0.28	141.60	39.65
0114	Beldar	Day	0.82	135.25	110.90
	TOTAL				3 131.17
	Add 1 % for water charges				31.31
	TOTAL				3 162.48

Code	Description	Unit	Quantity	Rate	Amount
	Add. 15% for contractor's profit and overheads				474.37
	Cost of 20.20 metre				3 636.85
	Cost of 1.00 metre				180.04
	Say				180.05

12.13 : Providing and fixing non-asbestos 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:

12.13.2 : Eave's filler pieces

Code	Description	Unit	Quantity	Rate	Amount
	Details of eaves filler for a shed of 20.2 metres complete length				
	Materials:				
	Eaves filler pieces of 1.016 metres length = 20 nos.+				
	Add 5% wastage = 1.0 No.				
	= 21 nos.				
0229	Non - Asbestos fibre cement eaves filler piece.	No	21.00	93.00	1953.00
9999	(The eaves filler pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.00	3.25
9999	Sundries	L.S.	3.25	1.00	3.25
	Labour:				
0130	Mistry	Day	0.07	151.50	10.60
0112	Carpenter 2nd class	Day	0.28	141.60	39.65
0114	Beldar	Day	0.82	135.25	110.90
	TOTAL				2120.65
	Add 1 % for water charges				21.21
	TOTAL				2141.86
	Add 10% for contractor's profit and overheads				321.28
	Cost of 20.20 metre				2463.14
	Cost of 1.00 metre				121.94
	Say				121.95

12.13 : Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.3: North light curves

Code	Description	Unit	Quantity	Rate	Amount
	Details of North light curve 20.2 metres long complete length				
	Materials:				
	North light curves of 1.016 metres nominal length = 20 nos. +				
	Add 5% wastage = 1.0 No.				
	= 21 nos.x 1.016 = 21.336 metre				
0230	Non - Asbestos fibre cement north light curves.	metre	21.336	197.00	4 203.19

Code	Description	Unit	Quantity	Rate	Amount
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	40.0	58.00	232.00
1209	Bitumen washers	100 Nos	40.0	27.00	10.80
1208	Bitumen washers thick	100 Nos	40.0	18.00	7.20
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.88	1.00	9.88
9999	Sundries	L.S.	6.24	1.00	6.24
	Labour:				
0130	Mistry	Day	0.10	151.50	15.15
0112	Carpenter 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				4 662.19
	Add 1 % for water charges				46.62
	TOTAL				4 708.81
	Add 15% for contractor's profit and overheads				706.32
	Cost of 20.20 metre				5415.13
	Cost of 1.00 metre				268.08
	Say				268.10

12.13: Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.4 : ventilator curves

Code	Description	Unit	Quantity	Rate	Amount
	Details of ventilator curve 20.2 metres long complete length Materials: North light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No. = 21 nos.x 1.016 = 21.336 metre				
0231	Non - Asbestos fibre cement ventilator curves.	each	21.336	267.00	5 696.71
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	40.00	58.00	232.00
1209	Bitumen washers	100 Nos	40.00	27.00	10.80
1208	Bitumen washers thick	100 Nos	40.00	18.00	7.20
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.88	1.00	9.88
9999	Sundries	L.S.	6.24	1.00	6.24
	Labour:				
0130	Mistry	Day	0.10	151.50	15.15
0112	Carpenter 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				6 155.71
	Add 1% for water charges				61.56
	TOTAL				6 217.27
	Add 10% for contractor's profit and overheads				932.59
	Cost of 20.20 metre				7 149.86
	Cost of 1.00 metre				353.95
	Say				353.95

12.13 : Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.5: Barge boards

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9.70 metres				
	Completed length of barge boards				
	Materials:				
	Barge boards 2.50metres = 4 nos. x 2.50 = 10.00 metre				
	Add 5% wastage = 0.50 metre.				
	= 10.50 metre.				
0232	Non - Asbestos fibre cement barge boards 6 mm thick.	metre	10.50	232.00	2436.00
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.00	30.00	15.00
1211	G.I. plain washers	100 Nos	10.00	21.00	2.10
1208	Bitumen washers	100 Nos	5.00	18.00	0.90
9999	Carriage of barge boards, bolts, nuts and washers	L.S.	9.36	1.00	9.36
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour:				
0130	Mistry	Day	0.04	151.50	6.06
0112	Carpenter 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	0.40	135.25	54.10
	TOTAL				2 538.78
	Add 1% for water charges				25.39
	TOTAL				2 564.17
	Add 15% for contractor's profit and overheads				384.63
	Cost of 9.70 metre				2 948.80
	Cost of 1.00 metre				304.00
	Say				304.00

12.13 : Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.6 : Ridge finials

Code	Description	Unit	Quantity	Rate	Amount
	Details of a pair of ridge finials				
	Materials:				
	Ridge finials = 1pair				
	Add 5% wastage = 0.05pair.				
	= 1.05 pair				
0233	Non - Asbestos fibre cement ridge finial.	pair	1.05	84.00	88.20
9999	Carriage, sundries, fixing charges including providing and fixing, seam bolts and nuts, with G.I. and bitumen washers	L.S.	10.79	1.00	10.79
	TOTAL				98.99
	Add 1% for water charges				0.99
	TOTAL				99.98
	Add 15% for contractor's profit and overheads				15.00
	Cost of 1.00 pair				114.98
	Say				115.00

12.13 : Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.7: Special north light curves

Code	Description	Unit	Quantity	Rate	Amount
	Details of special north light ventilator curve 20.2 metres long complete length Materials: Special north light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No. = 21 nos.				
0234	Non - Asbestos fibre cement special north light curves.	each	21.00	275.00	5 775.00
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	40.00	58.00	232.00
1209	Bitumen washers	100 Nos	40.00	27.00	10.80
1208	Bitumen washers thick	100 Nos	40.00	18.00	7.20
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.88	1.00	9.88
9999	Sundries	L.S.	6.24	1.00	6.24
	Labour:				
0130	Mistry	Day	0.10	151.50	15.15
0112	Carpenter 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				6 234.00
	Add 1 % for water charges				62.34
	TOTAL				6 296.34
	Add 15% for contractor's profit and overheads				944.45
	Cost of 20 nos				7 240.79
	Cost of 1.00 no				362.04
	Say				362.05

12.13 Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories 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:

12.13.8 S type louvers

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 8.74 metres Materials: S type louvers = 5 nos.+ Add 5% wastage = 0.25 nos. = 5.25 nos.				
0235	Non - Asbestos fibre cement S type louvers.	each	5.25	161.00	845.25
9999	Carriage	1.00	10.79	1.00	10.79
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	6.00	13.00	78.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.00	9.00	54.00
1208	Bitumen washers	100 Nos	18.00	18.00	3.24
1210	G.I. plain washers thin	100 Nos	36.00	20.00	7.20
9999	Carriage of bolts and nuts and washers	L.S.	2.73	1.00	2.73
9999	Sundries	L.S.	13.39	1.00	13.39
	Labour:				

Code	Description	Unit	Quantity	Rate	Amount
0111	Carpenter 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
0102	Blacksmith 1st class	Day	0.12	151.50	18.18
	TOTAL				1 319.53
	Add 1 % for water charges				13.20
	TOTAL				1 332.73
	Add 15% for contractor's profit and overheads				199.91
	Cost of 8.74 metres				1 532.64
	Cost of 1.00 metre				175.36
	Say				175.35

12.14 Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 20 metre				
	Material:				
	Flat 5 0x3 mm size				
1008	Fits upto 10 mm in thickness	quintal	0.1163	2 900.00	337.27
1025	M.S. bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	38.00	18.00	68.40
1024	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	each	19.00	7.00	-133.00
1210	G.I. plain washers thin	100 Nos	19.00	20.00	3.80
9999	Sundries	L.S.	1.04	1.00	1.04
0102	Blacksmith 1st class	Day	0.38	151.50	57.57
0114	Beldar	Day	0.38	135.25	51.40
	TOTAL				386.48
	Add 1% for water charges				3.86
	TOTAL				390.34
	Add 15% for contractor's profit and overheads				58.55
	Cost of 20.00 metres				448.89
	Cost of 1.00 metre				22.44
	Say				22.45

12.15: Painting top of roofs with bitumen of approved quality at 17kg 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 penetration 80/100

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.				
	Materials:				
0309	Cost of Bitumen 80/100	tonne	0.017	22500.00	382.50
0771	Cost of kerosene oil	litre	1.22	19.00	23.18
0370	Cost of fuel for heating (steam coal)	quintal	0.035	300.00	10.50
2211	Carriage of bitumen 80/100	tonne	0.017	53.21	0.90
0982	Coarse sand	cum	0.017	600.00	36.00
2203	Carriage of coarse sand	cum	0.06	53.21	3.19
	Labour:				
0114	Beldar (for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof)	Day	0.38	135.25	51.40
0131	Painter	Day	0.15	141.60	21.24

Code	Description	Unit	Quantity	Rate	Amount
9999	Sundries (Brushes and T and P)	L.S.	13.52	1.00	13.52
	TOTAL				542.43
	Add 1% for water charges				5.42
	TOTAL				547.85
	Add 15% for contractor's profit and overheads				82.18
	Cost of 10.00 sqm.				630.03
	Cost of 1 Sqm.				63.00
	Say				63.00

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 at 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks of class designation 100 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 F.P.S. brick tiles

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00sqm.				
	Materials:				
	Mud Phuska = 1.048 cum. +				
	Wastage 20% = 0.209				
	= 1.257 cum.				
0811	Mud Phuska	cum	1.257	20.00	25.14
2131	Mud morta for 25 mm thick plaster over phuska	cum	0.263	156.85	41.25
	Bhusa 0.263x35 = 9.20 +				
	5% wastage = 0.46				
	= 9.66 Kg.				
0308	Bhusa say 0.10 qiuntal	quintal	0.10	200.00	20.00
9999	Cowdung	L.S.	5.33	1.00	5.33
9999	Mud mortar for gobri leaping	L.S.	8.06	1.00	8.06
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.00	2.73
1984	Tile bricks 22.9x11.4x4.4cm of designation 100	1000 Nos	380.00	1950.00	741.00
2207	Carriage of tiles	1000 Nos	380.00	85.13	32.35
	Cement mortar for grouting 1:3 (1 cemerit 3 fine sand)	cum	0.061	2870.00	175.07
	Rate as for item No. 3.3				
1213	Integral water proofing compound 2% by weight of cement	kilogram	0.006	20.00	0.12
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour:				
0124	Mason 2nd class	Day	1.30	141.60	184.08
0114	Beldar	Day	3.75	135.25	507.19
0101	Bhisti	Day	1.10	138.45	152.30
	TOTAL				1901.38
	Add 1 % for water charges				19.01
	TOTAL				1920.39
	Add 15% for contractor's profit and overheads				288.06
	Cost of 10.00 sqm.				2208.45
	Cost of 1 Sqm.				220.85
	Say				220.85

12.17 10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25mm thick mud mortar with bhusha at 35kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cowdung) and covered with machine moulded tile bricks of class designation 125 conforming to IS : 2690 (Part I) -1992 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 F.P.S. brick tiles

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for l0.00sqm.				
	Materials:				
	Mud Phuska = 1.048 cum.				
	Wastage 20% = 0.209				
	= 1.257 cum.				
0811	Mud Phuska	cum	1.257	20.00	25.14
2131	Mud mortat for 25 mm thick plaster over phuska	cum	0.263	156.85	41.25
	Bhusa 0.263x35 = 9.20				
	5% wastage = 0.46				
	= 9.66 Kg. Say= 0.10 quintal.				
0308	Bhusa	quintal	0.10	200.00	20.00
9999	Cowdung	L.S.	5.33	1.00	5.33
9999	Mud mortar for gobri leaping	L.S.	8.06	1.00	8.06
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.00	2.73
7904	Machine moulded tile bricks of class designation 125	1 000 Nos	380.00	2717.00	1 032.46
2207	Carriage of tiles	1 000 Nos	85.13	380.00	32.35
2107	Cement mortar for grouting 1:3 (1 cement: 3 coarse sand)	cum	0.061	2870.00	175.07
1213	Integral water proofing compound 2% by weight of cement	kilogram	0.006	20.00	0.12
9999	Sundries	L.S.	6.76	1.00	6.76
	Labour:				
0124	Mason 2nd class	Day	1.30	141.60	184.08
0114	Beldar	Day	3.75	135.25	507.19
0101	Bhisti	Day	1.10	138.45	152.30
	TOTAL				2192.84
	Add 1% for water charges				21.93
	TOTAL				2 214.77
	Add 15% for contractor's profit and overheads				332.22
	Cost of 10.00sqm.				2 546.99
	Cost of 1 Sqm.				254.70
	Say				254.70

12.18 Extra for every additional 1 cm thickness of mud phaska

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 Sqm.				
	Materials:-				

Code	Description	Unit	Quantity	Rate	Amount
	for 10 cm thickness. Mud Phuska = 1.048 cum. + Wastage 20% = 0.209 = 1.257 Quantity for ICM thickness 1.257/10=0.1257 Say 0.13 cum				
0811	Mud	cum	0.13	20.00	2.60
0114	Beldar	cum	0.07	135.25	9.47
0101	Bhisti	Day	0.04	138.45	5.54
9999	Labour for leaping and carring to roof	L.S.	26.91	1.00	26.91
	TOTAL				44.52
	Add 1% for water charges				0.45
	TOTAL				44.97
	Add 15% for contractor's profit and overheads				6.75
	Cost of 10.00 sqm.				51.72
	Cost of 1 Sqm.				5.17
	Say				5.15

12.19 Providing and laying brick tiles of class designation 100 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 a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat:

12.19.1 With F.P.S. brick tiles

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 square metre. Materials				
1984	Bricks tiles of designation 100	1 000 Nos	380.00	1950.00	741.00
2207	Carriage of tiles	1 000 Nos	380.00	85.13	32.35
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand) (Rate asper No 3.3)	cum	0.179	2870.00	513.73
1213	Integral water proofing compound 2% by weight of cement	kilogram	0.005	20.00	0.10
	Labour:				
0124	Mason 2nd class	Day	0.81	141.60	114.70
0115	Coolie	Day	1.08	135.25	146.07
0101	Bhisti	Day	0.27	138.45	37.38
9999	Sundries	L.S.	1.82	1.00	1.82
	TOTAL				1 587.15
	Add 1% for water charges				15.87
	TOTAL				1 603.02
	Add 15% for contractor's profit and overheads				240.45
	Cost of 10.00 sqm.				1 843.47
	Cost of 1 Sqm.				184.35
	Say				184.35

12.20 Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and 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.				
	Materials				
7266	Manglore tiles/Pressed clay Tiles)	1000 Nos	160.00	8 900.00	1424.00
2207	Carriage of tiles	1000 Nos	160.00	85.13	13.62
	Cement mortar 1:4 (I cement: 4 coarse sand) (Rate as per of No 3.9.)	cum	0.37	2578.45	954.03
1213	Integral water proofing compound 2% by weight of cement	kilogram	0.01	20.00	0.20
	Cement mortar 1:4 (1 cement: 4 coarse sand) (Rate as per item No 3.9)	cum	0.20	2 578.45	515.69
	Labour				
0123	Mason 1 st class	Day	0.60	151.50	90.90
0114	Beldar	Day	2.60	135.25	351.65
9999	Sundries	L.S.	13.00	1.00	13.00
	TOTAL				3 363.09
	Add 1 % for water charges				33.63
	TOTAL				3 396.72
	Add 15% for contractor's profit and overheads				509.51
	Cost of 10.00 sqm.				3 906.23
	Cost of 1 Sqm.				390.62
	Say				390.60

12.21 Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design :

12.21.1 In 75x75mm deep chase

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metres cement concrete				
0291	Stone Aggregate (Single size): 10 mm nominal size	cum	0.0836	700.00	58.52
2202	Carriage of Stone Aggregate below 40 mm	cum	0.0836	53.21	4.45
0982	Coarse sand	cum	0.0418	600.00	25.08
2203	Carriage of coarse sand	cum	0.0418	53.21	2.22
0367	Portland cement	tonne	0.03	4500.00	135.00
2209	Carriage of cement	tonne	0.03	47.29	1.42
0114	Beldar	Day	0.085	135.25	11.50
0115	Coolie	Day	0.056	135.25	7.57
0101	Bhisti	Day	0.025	138.45	3.46
123	Mason 1 st class	Day	0.005	151.50	0.76
0124	Mason 2nd class	Day	0.005	141.60	0.71
0128	Mate	Day	0.0037	138.45	0.51
9999	Hire and running charge of mechanical mixer	L.S.	2.47	1.00	2.47
9999	Sundries	L.S.	1.30	1.00	1.30
0123	Mason 1 st class	Day	0.15	151.50	22.72
0124	Mason 2nd class	Day	0.15	141.60	21.24
9999	Sundries	L.S.	5.07	1.00	5.07
0123	Mason 1st class	Day	0.25	151.50	37.88
0124	Mason 2nd class	Day	0.25	141.60	35.40
0114	Beldar	Day	1.00	135.25	135.25
9999	Carriage	L.S.	8.06	1.00	8.06

Code	Description	Unit	Quantity	Rate	Amount
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand) (Rate as per item No. 3.3)	cum	0.009	2 870.00	25.83
0155	Mason	Day	0.081	146.55	11.87
0115	Coolie	Day	0.101	135.25	13.66
0101	Bhisti	Day	0.033	138.45	4.57
9999	Hire and running charges of mechanical mixer	L.S.	1.69	1.00	1.69
9999	Sundries	L.S.	1.43	1.00	1.43
	TOTAL				579.64
	Add 1% for water charges				5.80
	TOTAL				585.44
	Add 15% fof contractor's profit and overheads				87.82
	Cost of 10.00 metre				673.26
	Cost of 1.00 metre				67.33
	Say				67.35

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 1mx 1mx 400 micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge and 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	700.00	4.69
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	0.0022	700.00	1.54
2202	Carriage of Stone Aggregate below 40 mm nominal size	cum	0.0089	53.21	0.47
0982	Coarse sand	cum	0.0044	600.00	2.64
2203	Carriage of coarse sand	cum	0.0044	53.21	0.23
0367	Portland cement	tonne	0.0032	4500.00	14.40
2209	Carriage of cement	tonne	0.0032	47.29	0.15
0114	Beldar	Day	0.009	135.25	1.22
0115	Coolie	Day	0.006	135.25	0.81
0101	Bhisti	Day	0.0027	138.45	0.37
0123	Mason 1 st class	Day	0.0005	151.50	0.08
0124	Mason 2nd class	Day	0.0005	141.60	0.07
0128	Mate	Day	0.0004	138.45	0.06
9999	Hire and running charge of mechanical mixer	L.S.	0.26	1.00	0.26
9999	Sundries	L.S.	0.13	1.00	0.13
3002	PVC sheet 400 micron thick	sqm	1.00	26.00	26.00
	Cement mortar 1:3 (1 cement :3 coarse sand) (Rate as per item No. 3.8)	cum	0.0041	3169.60	13.00
0155	Mason	Day	0.0235	146.55	3.44
0115	Coolie	Day	0.0235	135.25	3.18
0101	Bhisti	Day	0.0078	138.45	1.08
9999	Sundries	L.S.	0.39	1.00	0.39
0367	Portland cement	tonne	0.0006	4500.00	2.70
2209	Carriage of cement	tonne	0.0006	47.29	0.03
0155	Mason	Day	0.008	146.55	1.17
0115	Coolie	Day	0.008	135.25	1.08
9999	Rounding of edges and making outlet	L.S.	0.26	1.00	0.26
9999	Sundries	L.S.	13.52	1.00	13.52
	TOTAL				92.97
	Add 1% for water charges				0.93
	TOTAL				93.90
	Add 15% for contractor's profit and overheads				14.08
	Cost of 1 no.				107.98
	Say				108.00

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 R.C.C. battens (Karries and battens to be paid separately) including 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.				
	Materials :				
1174	Stone slab including wastage @ 10% = 11 sqm	sqm	11.00	145.00	1 595.00
2216	Carriage of slab	tonne	1.27	47.29	60.06
	Cement mortar l:4 (1 cement : 4 coarse sand) (Rate as per item No. 3.9)	cum	0.0095	2 578.00	24.50
	Cement mortar for grouting 1:3(1 cement : 3 fine sand) Rate as per item No. 3.3	cum	0.0075	2 870.00	21.52
	Labour:				
0155	Mason	Day	1.52	146.65	222.76
0100	Bandhani	Day	1.82	138.45	41.54
0115	Coolie	Day	1.52	135.25	205.58
0101	Bhisti	Day	0.30	138.45	41.54
9999	Sundries	L.S.	16.12	1.00	16.52
	TOTAL				2439.06
	Add 1 % for water charges				24.39
	TOTAL				2463.45
	Add 15% for contractor's profit and overheads				369.52
	Cost of 10.00 sqm.				2832.97
	Cost of 1 Sqm.				283.30
	Say				283.30

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 R.C.C. battens (Karries and battens to be paid separately) including pointing the ceiling joints with cement mortar 1:3 (1 cement: 3 fine sand) complete :

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.				
	Materials :				
1175	Stone Slab including wastage @ 10% = 11sqm	sqm	11.00	160.00	1760.00
2216	Carriage of slab	tonne	1.27	47.29	60.06
2113	Cement mortar 1:4 (1 cement: 4 coarse sand) (Rate as per item No. 3.9)	cum	0.0095	2578.45	24.50
0155	Mason	Day	1.52	146.55	222.76
0100	Bandhani	Day	1.82	138.45	251.98
0115	Coolie	Day	1.52	135.25	205.58
0101	Bhisti	Day	0.30	138.45	41.54
9999	Sundries	L.S.	16.12	1.00	16.12
	Cement mortar for grouting 1:3(1 cement: 3 fine sand) Rate as per item No. 3.3	cum	0.0075	2870.00	21.52
	TOTAL				2604.06
	Add 1% for water charges				26.04
	TOTAL				2630.10
	Add 15% for contractor's profit and overheads				394.52
	Cost of 10.00 sqm.				3024.62
	Cost of 1 Sqm.				302.46
	Say				302.45

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 10sqm.				
	Material :-				
0332	Insulating board including 10% wastage = 11.00Sqm.	sqm	11.00	175.00	1925.00
9999	Carriage of material	L.S.	17.55	1.00	17.55
9999	Nails	L.S.	26.91	1.00	26.91
	Labour:				
	Carpenter 1st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.00	135.25	270.50
9999	Scaffolding	L.S.	31.07	1.00	31.07
9999	Sundries	L.S.	31.07	1.00	31.07
	TOTAL				2680.85
	Add 15% for water charges				26.81
	TOTAL				2707.66
	Add 10% for contractor's profit and overheads				406.15
	Cost of 10.00 sqm.				3113.81
	Cost of 1.00 sqm.				311.38
	Say				311.40

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):

12.24.2 White face insulating board

12.24.2.1 12 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm.				
	Material :-				
0328	White face insulating board 12 mm thick i/c 10% wastage 11 Sqm.	sqm	11.00	239.00	2629.00
9999	Carriage of material	L.S.	17.55	1.00	17.55
9999	Nails	L.S	26.91	1.00	26.91
	Labour:				
0111	Carpenter 1st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.00	135.25	270.50
9999	Scaffolding	L.S	31.07	1.00	31.07
9999	Sundries	L.S	31.07	1.00	31.07
	TOTAL				3384.85
	Add 1 % for water charges				33.85
	TOTAL				3418.70
	Add 15% for contractor's profit and overheads				512.80
	Cost of 10.00 sqm.				3931.50
	Cost of 1.00 sqm.				393.15
	Say				393.15

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):

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 10sqm.				
	Material :-				
0336	Flame retardent face insulating board 12 mm thick including 10% wastage 11.00 Sqm.	sqm	11.00	208.00	2288.00
9999	Carriage of material	L.S.	17.55	1.00	17.55
9999	Nails	L.S.	26.91	1.00	26.91
	Labour:				
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.00	135.25	270.50
9999	Scaffolding	L.S.	31.07	1.00	31.07
9999	Sundries	L.S.	31.07	1.00	31.07
	TOTAL				3043.85
	Add 1% for water charges				30.44
	TOTAL				3074.29
	Add 15% for contractor's profit and overheads				461.14
	Cost of 10.00 sqm.				3535.43
	Cost of 1.00 sqm.				353.54
	Say				353.55

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 10sqm.				
	Materials :-				
0341	Standard quality board 12mm thick including 10% wastage = 11. Sqm.	sqm	11.00	Sqm	2838.00
9999	Carriage	L.S.	14.95	1.00	14.95
9999	Nails	L.S.	26.91	1.00	26.91
	Labour:				
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.00	135.25	270.50
9999	Scaffolding	L.S.	31.07	1.00	31.07
9999	Sundries	L.S.	31.07	1.00	31.07
	TOTAL				3591.25
	Add 1 % for water charges				35.91
	TOTAL				3627.16
	Addr 15% for contractor's profit and overheads				544.07
	Cost of 10.00 sqm.				4171.23
	Cost of 1.00 sqm.				417.12
	Say				417.10

12.26 Providing and fixing plain multipurpose cement board (high pressure steam cured) as per IS 14862: 2000 with suitable fibre cement screw 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 10sqm.				
	Materials :-				
0236	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	11.00	180.00	1980.00
9999	Carriage	L.S.	14.95	1.00	14.95
9999	Nails	L.S.	26.91	1.00	26.91
	Labour:				
0111	Carpenter 1st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.00	135.25	270.50
9,999	Scaffolding	L.S.	31.07	1.00	31.07
9,999	Sundries	L.S.	31.07	1.00	31.07
	TOTAL				2733.25
	Add 1 % for water charges				27.33
	TOTAL				2760.58
	Add 15% for contractor's profit and overheads				414.09
	Cost of 10.00 sqm.				3174.67
	Cost of 1.00 sqm.				317.47
	Say				317.45

12.27 Extra for Circular cutting and waste 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				
	Materials :-				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	= 2.15 sqm.				
1190	Teak wood 2nd class	10 cudm	41.16	410.00	1 687.56
2204	Carriage	cum	0.041	60.81	2.49
0637	M.S. screws 40 mm long	100 Nos	31.00	30.00	9.30
	Labour:				
0111	Carpenter 1 st class	Day	2.65	151.50	401.48
0112	Carpenter 2nd class	Day .	0.145	141.60	20.53
0114	Beldar	Day	2.79	135.25	377.35
9999	Scaffolding	L.S.	7.80	1.00	7.80
9999	Sundries	L.S.	14.69	1.00	14.69
	TOTAL				2521.20
	Add 1 % for water charges				25.21
	TOTAL				2546.41
	Add 15% for contractor's profit and overheads				381.96
	Cost of 15.71 metre				2928.37
	Cost of 1.00 metre				186.40
	Say				186.40

12.27 Extra for Circular cutting and waste in ceiling with:
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				
	Materials :-				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	= 2.15 sqm.				
0332	Insulating board	sqm	2.15	175.00	376.25
9999	Carriage	L.S.	3.38	1.00	3.38
9999	Nails-	L.S.	5.33	1.00	5.33
	Labour:				
0111	Carpenter 1st class	Day	0.49	151.50	74.24
0114	Beldar	Day	0.39	135.25	52.75
9999	Scaffolding	L.S.	6.11	1.00	6.11
9999	Sundries	L.S.	6.11	1.00	6.11
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.50	135.25	338.12
9999	Scaffolding	L.S.	10.79	1.00	10.79
	TOTAL				1251.83
	Add 1 % for water charges				12.52
	TOTAL				1 264.35
	Add 15% for contractor's profit and overheads				189.65
	Cost of 15.71 metre				1 454.00
	Cost of 1.00 metre				92.55
	Say				92.55

12.27 Extra for Circular cutting and waste in ceiling with:
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				
	Materials :-				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area= 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	= 2.15 sqm.				
0328	Insulating board	sqm	2.15	239.00	513.85
9999	Carriage	L.S.	3.38	1.00	3.38
9999	Nails-	L.S.	5.33	1.00	5.33
	Labour:				
0111	Carpenter 1st class	Day	0.49	151.50	74.24
0114	Beldar	Day	0.39	135.25	52.75
9999	Scaffolding	L.S.	6.11	1.00	6.11
9999	Sundries	L.S.	6.11	1.00	6.11
0111	Carpenter 1st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.50	135.25	338.12
9999	Scaffolding	L.S.	10.79	1.00	10.79
	TOTAL				1389.43
	Add 1 % for water charges				13.89
	TOTAL				1403.32
	Add 15% for contractor's profit and overheads				210.50
	Cost of 15.71 metre				1613.82
	Cost of 1.00 metre				102.73
	Say				102.75

12.27 Extra for Circular cutting and waste in ceiling with:
12.27.4 Flame retardant face insulating board:
12.27.4.1 12 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 15.71 metre Materials :- 0.5 metre dia. each = 10x22/7x0.5=15.71m Area= 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. = 2.15 sqm.				
0336	Insulating board	sqm	2.15	208.00	447.20
9999	Carriage	L.S.	3.38	1.00	3.38
9999	Nails-	L.S.	5.33	1.00	5.33
	Labour:				
0111	Carpenter 1st class	Day	0.49	151.50	74.24
0114	Beldar	Day	0.39	135.25	52.75
9999	Scaffolding	L.S.	6.11	1.00	6.11
9999	Sundries	L.S.	6.11	1.00	6.11
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.50	135.25	338.12
9999	Scaffolding	L.S.	10.79	1.00	10.79
	TOTAL				1322.78
	Add 1% for water charges				13.23
	TOTAL				1336.01
	Add 15% for contractor's profit and overheads				200.40
	Cost of 15.71 metre				1536.41
	Cost of 1.00 metre				97.80
	Say				97.80

12.27 Extra for Circular cutting and waste in ceiling with:
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 Materials :- 0.5 metre dia. each = 10x22/7x0.5= 15.71m Area= 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. = 2.15 sqm.				
0994	Insulating board	sqm	2.15	103.00	221.45
9999	Carriage	L.S.	2.73	1.00	2.73
9999	Nails-	L.S.	5.33	1.00	5.33
	Labour:				
0111	Carpenter 1 st class	Day	0.49	151.50	74.24
0114	Beldar	Day	0.39	135.25	52.75
9999	Scaffolding	L.S.	6.11	1.00	6.11
9999	Sundries	L.S.	6.11	1.00	6.11
0111	Carpenter 1st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.50	135.25	338.12
9999	Scaffolding	L.S.	10.79	1.00	10.79
	TOTAL				1096.38
	Add 1% for water charges				10.96
	TOTAL				1107.34
	Add 15% for contractor's profit and overheads				166.10
	Cost of 15.71 metre				1273.44
	Cost of 1.00 metre				81.06
	Say				81.05

12.27 Extra for Circular cutting and waste in ceiling with:
12.27.5 Standard quality hard board sheet:
12.27.5.2 4.5 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 15.71 metre				
	Materials :-				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area= 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	= 2.15 sqm.				
0996	Insulating board	sqm	2.15	120.00	258.00
9999	Carriage	L.S.	2.86	1.00	2.86
9999	Nails-	L.S.	5.33	1.00	5.33
	Labour:				
0111	Carpenter 1 st class	Day	0.49	151.50	74.24
0114	Beldar	Day	0.39	135.25	52.75
9999	Scaffolding	L.S.	10.79	1.00	6.11
9999	Sundries	L.S.	6.11	1.00	6.11
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.50	135.25	338.12
9999	Scaffolding	L.S.	10.79	1.00	10.79
	TOTAL				1 133.06
	Add 1% for water charges				11.33
	TOTAL				1 144.39
	Add 15% for contractor's profit and overheads				171.66
	Cost of 15.71 metre				1316.05
	Cost of 1.00 metre				83.77
	Say				83.75

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 1 st class	Day	1.00	151.50	151.50
0112	Carpenter 2nd class	Day,	1.00	141.60	141.60
0114	Beldar	Day	2.00	135.25	270.50
	TOTAL				563.60
	Add 1% for water charges				5.64
	TOTAL				569.24
	Add 15% for contractor's profit and overheads				85.39
	Cost of 10.00 sqm.				654.63
	Cost of 1.00 sqm.				65.46
	Say				65.45

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 and 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 xl5xl.5 mm size main runners and 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. The suspenders shall be placed 600x 1200 mm centre to centre including fixing to the frame with C.P brace 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 10.00 sqm.				
	Materials :-				
7267	Plain ceiling tiles 600x600x12 mm thick , Area including 10% wastage = 11.00 sqm	each	11.00	90.00	990.00
9999	Carriage of tiles	L.S.	14.82	1.00	14.82
9999	C.P. brase screws	L.S.	26.91	1.00	26.91
	Labour:				
0111	Carpenter 1 st class	Day	2.50	151.50	378.75
0114	Beldar	Day	2.0	135.25	270.50
9999	Scaffolding	L.S.	31.07	1.00	31.07
9999	Sundries	L.S.	31.07	1.00	31.07
	TOTAL				1743.12
	Add 1% for water charges				17.43
	TOTAL				1760.55
	Add 15% for contractor's profit and overheads				264.08
	Cost of 10.00 sqm.				2024.63
	Cost of 1.00 sqm.				202.46
	Say				202.45

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 with design particle board ceiling tiles in item above.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
7385	Cost of 3 mm thick translucent white acrylic plastic sheet	sqm	10.00	515.00	5150.00
7386	Cost of 12mm thick plain particle board ceiling tile	sqm	10.00	225.00	-2250.00
	Difference of cost				2900.00
	Add 1 % for water charges				29.00
	TOTAL				2929.00
	Add 15% for contractor's profit and overheads				439.35
	Cost of 10.00 sqm.				3368.35
	Cost of 1.00 sqm.				336.84
	Say				336.85

12.31 Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling upto 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.				
	Materials :-				
	Wooden strips of 1 st class kail wood 72x40x0.25x0.06 = 43.20 cudm. + Add 10% wastage = 4.32 cudm. = 47.52				
1196	Kail wood 1 st class	10 cudm	47.52	186.00	883.87
2204	Carriage of timber	cum	0.0475	60.81	2.89
1219	Nail required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.75	40.00	30.00
	Rabbit wire mesh required for reinforcement				

Code	Description	Unit	Quantity	Rate	Amount
	=2.5x4 = 10.00sqm.+ Add 2%wastage =0.20 sqm. = 10.2 sqm.				
1220	Rabbit wire mesh	sqm	10.20	38.00	387.60
	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 = 219.76				
0869	Plaster of Paris	kilogram	219.76	2.50	549.40
2308	Carriage of Plaster of Paris	tonne	0.22	47.29	10.40
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.00	2.73
	Labour:				
0111	Carpenter 1 st class	Day	1.60	151.50	242.40
0114	Beldar	Day	1.60	135.25	216.40
	For doing plaster of paris over wooden strips				
0122	Mason	Day	3.23	151.50	489.34
0114	Beldar	Day	3.23	151.50	436.86
0l0l	Bhisti	Day	0.54	138.45	74.76
9999	Scaffolding	L.S.	83.98	1.00	83.98
9999	Sundries	L.S.	53.82	1.00	53.82
	TOTAL				3464.45
	Add 1% for water charges				34.64
	TOTAL				3499.09
	Add 15% for contractor's profit and overheads				524.86
	Cost of 10.00 sqm.				4023.95
	Cost of 1.00 sqm.				402.40
	Say				402.40

12.31 Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling upto 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):

12.31.2 Curved surfaces

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 4.00x2.5=10sqm. Materials :- Wooden strips of 1st class kail wood 72x40x0.25x0.06 = 43.20 cudm. + Add 10% wastage = 4.32 cudm. = 47.52				
1196	Kail wood	10 cudm	47.52	186.00	883.87
2204	Carriage of timber	cum	0.0475	60.81	2.89
1219	Nail required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.75	40.00	30.00
	Rabbit wire mesh required for reinforcement =2.5x4 = 10.00sqm.+ Add 2% wastage = 0.20 Sqm. = 10.2 sqm.				
1220	Rabbit wire mesh	Sqm	10.20	38.00	387.60

Code	Description	Unit	Quantity	Rate	Amount
	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 = 219.76				
0869	Plaster of Paris	kilogram	219.76	2.50	549.40
2308	Carriage of Plaster of Paris	tonne	0.22	47.29	10.40
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.00	2.73
	Labour:				
0111	Carpenter Ist class	Day	1.60	151.50	242.40
0114	Beldar	Day	1.60	135.25	216.40
0122	Mason	Day	3.23	151.50	489.34
0114	Beldar	Day	3.23	135.25	436.86
0101	Bhisti	Day	0.54	138.45	74.76
9999	Scaffolding	L.S.	83.98	1.00	83.98
9999	Sundries	L.S.	53.82	1.00	53.82
0111	Carpenter Ist class	Day	0.50	151.50	75.75
0122	Mason	Day	1.00	151.50	151.00
0114	Beldar	Day	1.50	135.25	202.88
	TOTAL				3894.58
	Add 1% for water charges				38.95
	TOTAL				3933.53
	Add 15% for centractor's profit and overheads				590.03
	Cost of 10.00 sqm.				4523.56
	Cost of 1.00 sqm.				452.36
	Say				452.35

12.32 Extra for any 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	2.50	274.70
2308	Carriage of Plaster of Paris	tonne	0.11	47.29	5.20
	Labour:				
0122	Mason	Day	2.00	151.50	303.00
0114	Beldar	Day	2.00	135.25	270.50
0101	Bhisti	Day	0.25	138.45	34.61
9999	Scaffolding and Sundries	L.S.	13.52	1.00	13.52
	TOTAL				901.53
	Add 1% for water charges				9.02
	TOTAL				910.55
	Add 15% for contractor's profit and overheads				136.58
	Cost of 10.00 sqm.				1047.13
	Cost of 1.00 sqm.				104.71
	Say				104.70

12.33 Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres hight from floor level

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for l0sqm/metre height				
9999	Scaffolding	L.S.	13.52	1.00	13.52
	Labour:				
0122	Mason	Day	1.00	151.50	151.50
0114	Beldar	Day	1.00	135.25	135.25
0101	Bhisti	Day	0.25	138.45	34.61
	TOTAL				334.88
	Add 1% for water charges				3.35
	TOTAL				338.23
	Add 15% for contractor's profit and overheads				50.73
	Cost of.10.00sqm / metre height				388.96
	Cost of 1.00 sqm. / metre height				38.90

12.34 Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183 density 24kg/m3, 50mm 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 24g wire and mesh, for top most ceiling of building.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00sqm. Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. = 11.00sqm.				
7232	Resin Bonded Glass wool 24 kg/m^3 50 mm thick	Sqm	11.00	163.00	1793.00
9999	Sundries including GI wire 20 SWG and Virgin polythene bags 200 gram	L.S.	104.00	1.00	104.00
9999	GI chiken mesh 12.5mm x 24 SWG	L.S.	351.00	1.00	351.00
	Labour:				
0111	Carpenter 1st class	Day	1.00	151.50	151.50
0114	Beldar	Day	2.00	135.25	270.50
	TOTAL				2670.00
	Add 1 % for water charges				26.70
	TOTAL				2696.70
	Add 15% for contractor's profit and overheads				404.50
	Cost for 10.00sqm.				3101.20
	Cost for 1sqm.				310.12
	Say				310.10

12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS : 8183. Density 16kg/m3 50mm thick, wrapped in 200G 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 10.00sqm. Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. = 11.00sqm.				
7231	Resin Bonded Glass wool 16 kg/m^3 50 mm	sqm	11.00	114.00	1254.00

Code	Description	Unit	Quantity	Rate	Amount
	thick				
9999	Sundries including GI wire 20 SWG and Virgin polythene bags 200 gram	L.S.	52.00	1.00	52.00
	Labour:				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				1449.37
	Add 1% for water charges				14.49
	TOTAL				1463.86
	AAdd 15% for contractor's profit and overheads				219.58
	Cost for 10.00sqm.				1683.44
	Cost for 1sqm.				168.34
	Say				168.35

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 for10.00sqm.				
	Cost of materials :				
	Expanded Polystyrens lx10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				
	= 11.00sqm.				
7090	Expanded polystyrene type N- Normal	sqm	11.00	108.00	1188.00
0314	Adhesive Bitumen hot sealing compound : grade A	kilogram	0.25	20.00	5.00
9999	Sundries	L.S.	13.00	1.00	13.00
	Labour:				
0111	Carpenter 1st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				1349.37
	Add 1 % for water charges				13.49
	TOTAL				1362.86
	Add 15% for contractor's profit and overheads				204.43
	Cost for 10.00sqm.				1567.29
	Cost for 1sqm.				156.73
	Say				156.75

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 :

12.36.2 With Type SE - Self Extinguishing type 50 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00sqm.				
	Cost of materials :				
	Expanded Polystyrens lx10=10.00sqm. +				
	Add wastage 10% = 1.00sqm.				
	= 11.00sqm.				
7091	Expanded polystyrene type - SE	sqm	11.00	131.00	1441.00
O14	Adhesive bitumen grade 'A'	kilogram	0.25	20.00	5.00
9999	Sundries	L.S.	13.00	1.00	13.00
	Labour:				
0111	Carpenter 1 st class	Day	0.50	151.50	75.75
0114	Beldar	Day	0.50	135.25	67.62
	TOTAL				1602.37

Code	Description	Unit	Quantity	Rate	Amount
	Add 1% for water charges				16.02
	TOTAL				1618.39
	Add 15% for'contractor's profit and overheads				242.76
	Cost for 10.00sqm.				1861.15
	Cost for 1sqm.				186.12
	Say				186.10

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				
	Materials :-				
3004	Stone ware spouts 100 mm dia 60 cm long	each	6.00	28.00	168.00
9999	Carriage	L.S.	13.52	1.00	13.52
9999	Mortar	L.S.	13.52	1.00	13.52
	Labour for fixing and placing in position				
0124	Mason 2nd class	Day	0.40	141.60	56.64
0114	Beldar	Day	0.40	135.25	54.10
9999	Sundries	L.S.	5.33	1.00	5.33
	TOTAL				311.11
	Add 1 % for water charges				3.11
	TOTAL				314.22
	Add. 15% for contractor's profit and overheads				47.13
	Cost of 10.00 spouts				361.35
	Cost of 1.00 spout				36.14
	Say				36.15

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 10x10x 10cm 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 of 5 nos.				
	Materials :-				
1331	M.S. holder bat clamps = 5 nos	each	5.00	13.00	65.00
9999	Sundries	L.S.	7.15	1.00	7.15
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Carriage of bat clamps	L.S.	2.47	1.00	2.47
	Labour:				
0116	Fitter	Day	0.125	151.50	18.94
0124	Mason 2nd class	Day	0.75	141.60	106.20
0114	Beldar	Day	0.50	135.25	67.62
0295	Stone Aggregate 20 mm nominal size	cum	0.0033	700.00	2.31
0297	Stone Aggregate 10 mm nominal size	cum	0.0011	700.00	0.77
2202	Carriage of Stone Aggregate below 40 mm nominal size	cum	0.0044	53.21	0.23
0982	Coarse sand	cum	0.0022	600.00	1.32

Code	Description	Unit	Quantity	Rate	Amount
2203	Carriage of coarse sand	cum	0.0022	53.21	0.12
0367	Portland cement	tonne	0.0016	4500.00	7.20
2209	Carriage of cement	tonne	0.0016	47.29	0.08
0114	Beldar	Day	0.0045	135.25	0.61
0115	Coolie	Day	0.0032	135.25	0.43
0101	Bhisti	Day	0.0014	138.45	0.19
0123	Mason 1st class	Day	0.0003	151.50	0.05
0124	Mason 2nd class	Day	0.0003	141.60	0.04
0128	Mate	Day	0.0002	138.45	0.03
9999	Hire charges of machine etc.	L.S.	0.26	1.00	0.26
9999	Sundries	L.S.	0.13	1.00	0.13
9999	Sundries	L.S.	0.13	1.00	0.13
	TOTAL				281.28
	Add 1% for water charges				2.81
	TOTAL				284.09
	Add 15% for contractor's profit and overheads				42.61
	Cost of 5.00 bat clamps				326.70
	Cost of 1.00 bat clamps				65.34
	Say				65.35

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 10x10x 10cm 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.:

12.38.2 150 mm diameter

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 5 nos.				
	Materials :-				
0886	M.S. holder bat clamps = 5 nos	each	5.00	20.00	100.00
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Carriage of bat clamps	L.S.	2.47	1.00	2.47
9999	Sundries	L.S.	7.15	1.00	7.15
	Labour:				
0116	Fitter	Day	0.125	151.50	18.94
0124	Mason 2nd class	Day	0.75	141.60	106.20
0114	Beldar	Day	0.50	135.25	67.62
0295	Stone Aggregate 20 mm nominal size	cum	0.0033	700.00	2.31
0297	Stone Aggregate 10 mm nominal size	cum	0.0011	700.00	0.77
2202	Carriage of Stone Aggregate below 40 mm nominal size	cum	0.0044	53.21	0.23
0982	Coarse sand	cum	0.0022	600.00	1.32
2203	Carriage of coarse sand	cum	0.0022	53.21	0.12
0367	Portland cement	tonne	0.0016	4500.0	7.20
2209	Carriage of cement	tonne	0.0016	47.29	0.08
0114	Beldar	Day	0.0045	135.25	0.61
0115	Coolie	Day	0.0032	135.25	0.43
0101	Bhisti	Day	0.0014	138.45	0.19
0123	Mason 1 st class	Day	0.0003	151.50	0.05
0124	Mason 2nd class	Day	0.0003	141.60	0.04
0128	Mate	Day	0.0002	138.45	0.03

Code	Description	Unit	Quantity	Rate	Amount
9999	Hire charges of machine etc.	L.S.	0.26	1.00	0.26
9999	Sundries	L.S.	0.13	1.00	0.13
9999	Sundries	L.S.	0.13	1.00	0.13
	TOTAL				316.28
	Add 1 % for water charges				3.16
	TOTAL				319.44
	Add 15% for contractor's profit and overheads				47.92
	Cost of 5.00 bat clamps				367.36
	Cost of 1.00 bat clamps				73.47
	Say				73.45

12.39 Providing lead caulked joints to sand cast iron rain water pipes and fittings:
12.39.1 100mm dia. Pipe

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one joint.				
	Materials:				
0865	Pig lead	Kilogram	0.98	58.00	56.84
1001	Spunyarn	Kilogram	0.11	30.00	3.30
9999	Kerosene oil fuel and sundries	L.S	13.52	1.00	13.52
9999	Carriage of materials	L.S.	1.43	1.00	1.43
	Labour:				
0116	Fitter	Day	0.06	151.50	9.09
0117	Assistant fitter	Day	0.06	141.60	8.50
0114	Beldar	Day	0.12	135.25	16.23
	TOTAL				108.91
	Add 1% for water charges				1.09
	TOTAL				110.00
	Add 15% for contractor's profit and overheads				16.50
	Cost of 1.00 joint.				126.50
	Say				126.50

12.39 Providing lead caulked joints to sand cast iron rain water pipes and fittings.
12.39.2 150mm dia. Pipe

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one joint.				
	Materials:				
0865	Pig lead	kilogram	1.48	58.00	85.84
1001	Spun yarn	kilogram	0.17	30.00	5.10
9999	Kerosene oil fuel and sundries	L.S.	13.52	1.00	13.52
9999	Carriage of materials	L.S.	2.73	1.00	2.73
	Labour:				
0116	Fitter	Day	0.08	151.50	12.12
0117	Assistasnt fitter	Day	0.08	141.60	11.33
0114	Beldar	Day	0.15	135.25	20.29

Code	Description	Unit	Quantity	Rate	Amount
	TOTAL				150.93
	Add 1% for water charges				1.51
	TOTAL				152.44
	Add 15% for contractor's profit and overheads				22.87
	Cost of 1.00 joint.				175.31
	Say				175.30

12.40 Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with" 12mm 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 one shoe				
0966	150 mm sand cast iron plain shoe	each	1.00	222.00	222.00
9999	Carriage, fixing and mortar	L.S.	17.55	1.00	17.55
	TOTAL				
239.55	Add 1% for water charges				2.40
	TOTAL				241.95
	Add 15% for contractor's profit and overheads				36.29
	Cost of 1.00 bend				278.24
	Say				278.25

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 6.00 metres				
7188	Cost of 6.00 metres pipe	metre	6.00	58.00	348.00
7190	Seal rings	metre	1.00	14.00	14.00
9999	Carriage of materials	L.S.	13.52	1.00	13.52
9999	Adhesive, and sundries etc.	L.S.	6.76	1.00	6.76
	Labour-				
0116	Fitter	Day	0.19	151.50	28.78
0114	Beldar	Day	0.37	135.25	50.04
0100	Bandhani	Day	0.08	138.45	11.08
9999	Scaffolding etc.	L.S.	18.59	1.00	18.59
	TOTAL				490.77
	Add 1% for water charges				4.91
	TOTAL				495.68
	Add 15% for contractor's profit and overheads				74.35
	Cost of 6.00 metre				570.03
	Cost of 1.00 metre				95.01
	Say				95.00

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

12.41.2 110 mm diameter

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.00 metres				
7189	Cost of 6.00 metres pipe	metre	6.00	112.00	672.00
7191	Seal rings	metre	1.00	17.00	17.00
9999	Carriage of materials	L.S.	17.55	1.00	17.55
9999	Adhesive, and sundries etc.	L.S.	8.06	1.00	8.06
	Labour-				
0116	Fitter	Day	0.23	151.50	34.84
0114	Beldar	Day	0.45	138.25	60.86
0100	Bandhani	Day	0.11	138.45	15.23
9999	Scaffolding etc.	L.S.	18.59	1.00	18.59
	TOTAL				844.13
	Add 1% for water charges				8.44
	TOTAL				852.57
	Add 15% for contractor's profit and overheads				127.89
	Cost of 6.00 metre				980.46
	Cost of 1.00 metre				163.41
	Say				163.40

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	metre	1.00	30.00	30.00
7192	Cost of coupler	metre	2.00	17.00	28.00
7190	Seal rings				
9999	Adhesive, and sundries etc.	L.S.	2.73	1.00	2.73
	Labour-				
9999	Carriage and fixing charges	L.S	9.36	1.00	9.36
	TOTAL				70.09
	Add 1% for water charges				0.70
	TOTAL				70.79
	Add 15% for contractor's profit and overheads				10.62
	Cost of 1 coupler				81.41
	Say				81.40

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

12.42.1.2 110 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
7193	Cost of coupler	each	1.00	40.00	40.00
7191	Seal rings	metre	2.00	17.00	34.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	10.79	1.00	10.79
	TOTAL				87.52
	Add 1 % for water charges				0.88
	TOTAL				88.40
	Add 15% for contractor's profit and overheads				13.26
	Cost of 1 coupler				101.66
	Say				101.65

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.

12.42.2 Single push fit Coupler:

12.42.2.1 75 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
7194	Cost of coupler	each	1.00	47.00	47.00
7190	Seal rings	metre	2.00	14.00	28.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	9.36	1.00	9.36
	TOTAL				87.09
	Add 1 % for water charges				0.87
	TOTAL				87.96
	Add 15% for contractor's profit and overheads				13.19
	Cost of 1 coupler				101.15
	Say				101.15

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.

12.42.2 Single push fit Coupler:

12.42.2.2 110 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
7195	Cost of coupler	each	1.00	72.00	72.00
7191	Seal rings	metre	2.0	17.00	34.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73

Code	Discription	Unit	Quantity	Rate	Amount
9999	Carriage and fixing charges	L.S	10.79	1.00	10.79
	TOTAL				119.52
	Add 1 % for water charges				1.20
	TOTAL				120.72
	Add 15% for contractor's profit and overheads				18.11
	Cost of 1 coupler				138.83
	Say				138.85

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.

12.42.3 Single tee with door

12.42.3.1 75x75x75 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	Materials				
7198	75x75x75 mm single equal tee (with door) including cost of bolts and nuts	each	1.00	100.00	100.00
7190	Seal rings	metre	3.00	14.00	42.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S	10.76	1.00	10.76
	TOTAL				152.76
	Add 1% for water charges				1.53
	TOTAL				154.29
	Add 15% for contractor's profit and overheads				23.14
	Cost of 1 tee				177.43
	Say				177.45

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.

12.42.3 Single tee with door

12.42.3.2 110x110x110 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	Materials				
7199	110x110x110 mm single equal tee (with door) including cost of bolts and nuts	each	1.00	160.00	160.00
7191	Seal rings	metre	3.00	17.00	51.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S	13.47	1.00	13.47
	TOTAL				224.47
	Add 1% for water charges				2.24
	TOTAL				226.71
	Add 15% for contractor's profit and overheads				34.01
	Cost of 1 tee				260.72
	Say				260.70

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.

12.42.4 Single tee with door

12.42.4.1 75x75x75 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	Materials				
7196	75x75x75 mm single equal tee (without door) including cost of bolts and nuts	each	1.00	83.00	83.00
7190	Seal rings	metre	3.00	14.00	42.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S	10.76	1.00	10.76
	TOTAL				135.76
	Add 1% for water charges				1.36
	TOTAL				137.12
	Add 15% for contractor's profit and overheads				20.57
	Cost of 1 tee				157.69
	Say				157.70

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.

12.42.4 Single tee with door

12.42.4.2 110x110x110 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	Materials				
7197	110x110x110 mm single equal tee (without door) including cost of bolts and nuts	each	1.00	115.00	115.00
7191	Seal rings	metre	3.00	17.00	51.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S	13.47	1.00	13.47
	TOTAL				179.47
	Add 1% for water charges				1.79
	TOTAL				181.26
	Add 15% for contractor's profit and overheads				27.19
	Cost of 1 tee				208.45
	Say				208.45

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.

12.42.5 Bend 87.5°

12.42.5.1 75 mm bend

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 bend				
7208	Cost of bend	each	1.00	50.00	50.00
7190	Seal rings	metre	1.00	14.00	14.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	9.36	1.00	9.36
	TOTAL				76.09
	Add 1% for water charges				0.76
	TOTAL				76.85
	Add 15% for'contractor's profit and overheads				11.53
	Cost of 1 coupler				88.38
	Say				88.40

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.

12.42.5 Bend 87.5°

12.42.5.2 110 mm bend

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 bend				
7209	Cost of bend	each	1.00	85.00	85.00
7191	Seal rings	metre	1.00	17.00	17.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	10.79	1.00	10.79
	TOTAL				115.52
	Add 1% for water charges				1.16
	TOTAL				116.68
	Add 15% for'contractor's profit and overheads				17.50
	Cost of 1 coupler				134.18
	Say				134.20

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.

12.42.6 Shoe (Plain)

12.42.6.1 75 mm Shoe

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 shoe				
7212	Cost of shoe	each	1.00	105.00	105.00
7190	Seal rings	metre	1.00	14.00	14.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	9.36	1.00	9.36
	TOTAL				131.09
	Add 1% for water charges				1.31
	TOTAL				132.40
	Add 15% for contractor's profit and overheads				19.86
	Cost of 1 coupler				152.26
	Say				152.25

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.

12.42.6 Shoe (Plain)

12.42.6.2 110 mm Shoe

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 shoe				
7213	Cost of shoe	each	1.00	196.00	196.00
7191	Seal rings	metre	1.00	17.00	17.00
9999	Adhesive, and sundries etc.	L.S	2.73	1.00	2.73
9999	Carriage and fixing charges	L.S	10.79	1.00	10.79
	TOTAL				226.52
	Add 1% for water charges				2.27
	TOTAL				228.79
	Add 15% for contractor's profit and overheads				34.32
	Cost of 1 coupler				263.11
	Say				263.10

12.43 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 5 nos.				
	Materials				
7214	U-PVC pipe clips	each	5.00	15.00	75.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.00	2.47
0870	Hardwood plug 50x50x50	each	10.00	6.00	60.00
	Labour :-				
0116	Fitter	Day	0.125	151.50	18.94
0124	Mason 2nd class	Day	0.75	141.60	106.20
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	7.15	1.00	7.15
9999	Sundries	L.S.	0.91	1.00	0.91
9999	Sundries cement mortar 1:4(1 Cement: 4 Coarse sand)	L.S.	3.90	1.00	3.90
	TOTAL				342.19
	Add 1% for water charges				3.42
	TOTAL				345.61
	Add 15% for contractor's profit and overheads				51.84
	Cost of 5 Nos.				397.45
	Cost of 1 No.				79.49
	Say				79.50

12.43 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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.

12.43.2 110 mm

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 5 nos.				
	Materials				
7214	U-PVC pipe clips	each	5.00	30.00	150.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.00	2.47
0870	Hardwood plug 50x50x50	each	10.00	6.00	60.00
	Labour :-				
0116	Fitter	Day	0.125	151.50	18.94
0124	Mason 2nd class	Day	0.75	141.60	106.20
0114	Beldar	Day	0.50	135.25	67.62
9999	Sundries	L.S.	7.15	1.00	7.15
9999	Sundries	L.S.	0.91	1.00	0.91
9999	Sundries cement mortar 1:4(1 Cement: 4 Coarse sand)	L.S.	3.90	1.00	3.90
	TOTAL				417.19
	Add 1% for water charges				4.17
	TOTAL				421.36
	Add 15% for contractor's profit and overheads				63.20
	Cost of 5 Nos.				484.56
	Cost of 1 No.				96.91
	Say				96.90

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	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 grating				
	Materials				
7187	150 mm cast iron grating for rain water pipe	each	1.00	16.00	16.00
9999	Carriage of material and fixing charges	L.S	4.16	1.00	4.16
	TOTAL				20.16
	Add 1 % for water charges				0.20
	TOTAL				20.36
	Add 15% for contractor's profit and overheads				3.05
	Cost of each grating				23.41
	Say				23.40

12.45 Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of

25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures 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 drawing and 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 board conforming to IS: 2095- Part I,

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10.8x9.6m = 103.68sqm.				
	Materials				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	= 108.86 sqm.				
7009	Gypsum board	sqm	108.86	140.00	15240.40
7010	Ceiling sections	metre	238.14	36.00	8573.04
7011	Perimetre channel	metre	41.14	23.00	962.32
7012	Intermediate channel	metre	90.72	38.00	3447.36
7013	Strap hanger (Ceiling angle)	metre	10.80	16.00	172.80
7014	Connecting clips	each	189.00	5.00	945.00
1022	Nuts and bolts 6 mm dia (25mm)	10 Nos	216.00	9.00	194.40
7015	Soffit cleat	each	72.00	3.00	216.00
7020	Drive all screws 25 mm long	100 Nos	1000.00	40.00	400.00
7016	Joint filler	kilogram	22.81	19.00	433.39
7017	Joint finisher	kilogram	34.21	22.00	752.62
7018	Joint tape	roll	1.27	120.00	152.40
7021	Primer for two coats	litre	18.66	76.00	1418.16
7019	Dash fastner 12 mm dia 40 mm long with 6 mm dia bolt	each	72.00	8.00	576.00
9999	Sundries like rawl plug scaffolding etc	L.S.	807.30	1.00	807.30
9999	Carriage of material etc.	L.S.	447.20	1.00	447.20
	Labour :-				
0112	Carpenter 2nd class	Day	31.104	141.60	4404.33
0114	Beldar	Day	31.104	135.25	4206.82
0131	Painter	Day	10.368	141.60	1468.11
	TOTAL				44817.65
	Add 1 % for water charges				448.18
	TOTAL				45265.83
	Add 15% for contractor’s profit and overheads				6789.87
	Cost for 103.68 sqm.				52055.70
	Cost of 1 Sqm.				502.08
	Say				502.10

12.46 Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating sqare (Slit) 150 mm sqare with a height of 8 mm and weighing not less than 100 gms

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 grating				
	Materials				
7857	P.T.M.T. Grating square slit 150mm	each	1.00	70.00	70.00
9999	Carriage of material and fixing charges	L.S	4.16	1.00	4.16
	TOTAL				74.16
	Add 1% for water charges				0.74
	TOTAL				74.90
	Add 15% for contractor's profit and overheads				11.24
	Cost of each grating				86.14
	Say				86.15

12.47 Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm 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-voilet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall confoim to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.

12.47.1 2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2"or 3"or 6") as specified.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for area of roof.				
	2x18.09x5.1 = 184.518 sqm.				
	Materials:				
8668	UV stabilised 2 mm thick corrugated FRP sheet.	sqm	240.408	474.00	113953.39
9999	Carriage of sheet	L.S.	104.00	1.00	104.00
	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	Bolts and nuts				
	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	G.I., J or L hooks	10 Nos	884.00	9.00	795.60
1207	Limpet washers (total of seam and J bolts)	10 Nos	810.00	58.00	4698.00
	884+810= 1694	100 Nos	1694.00	20.00	338.80
1208	Bitumen washers				
9999	Carriage of bolts and washers	100 Nos	1694.00	18.00	304.92
9999	Sundries	L.S.	26.91	1.00	26.91
	Labour:	L.S.	53.82	1.00	53.82

Code	Discription	Unit	Quantity	Rate	Amount
0130	Mistry	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	15.50	141.60	2194.80
0114	Beldar	Day	15.50	135.25	2096.38
	TOTAL				124763.57
	Add 1 % for water charges				1247.64
	TOTAL				126011.21
	Add 15% for contractor's profit and overheads				18 901.68
	Cost of 184.518 Sqm.				144912.89
	Cost of 1 Sqm.				785.36
	Say				785.35

12.47 Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm 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-voilet stabiliser in resin system under approximately 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.

12.47.2 2mm thick flat

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for area of roof. 2x18.09x5.1 = 184.518 sqm. Materials:				
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	400.00	96163.20
9999	Carriage of sheet	L.S.	104.00	1.00	104.00
	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	Bolts and nuts 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	9.00	795.60
1023	G.I., J or L hooks	10 Nos	810.00	58.00	4698.00
1207	Limpet washers (total of seam and J bolts) 884+810= 1694	100 Nos	1694.00	20.00	338.80
1208	Bitumen washers	100 Nos	1694.00	18.00	304.92
9999	Carriage of bolts and washers	L.S.	26.91	1.00	26.91
9999	Sundries	L.S.	53.82	1.00	53.82
	Labour:				
0130	Mistry	Day	1.30	151.50	196.95
0112	Carpenter 2nd class	Day	15.50	141.60	2194.80
0114	Beldar	Day	15.50	135.25	2096.38
	TOTAL				106973.38
	Add 1 % for water charges				1069.73
	TOTAL				108043.11
	Add 15% for contractor's profit and overheads				16 206.47
	Cost of 184.518 Sqm.				124249.58
	Cost of 1 Sqm.				673.37
	Say				673.35

12.48 Providing & fixing on roof pressed clay tile (Mangalor tile of 20 mm nominal thickness and of approved size and as per approved pattern sfeel frame work complete (steel frame work to be paid separately)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Materials				
8670	Manglore tiles 20 mm thick.	each	160	9.50	1520.00
2207	Carriage of tiles	1000 Nos	160	85.13	13.62
	Labour				
0123	Mason 1st class	Day	0.30	151.50	45.45
0114	Beldar	Day	1.56	135.20	210.99
9999	Sundries	L.S	13.00	1.00	13.00
	Total				1803.06
	Add 1% for water charges				18.03
	Total				1821.09
	Add 15% for contractor's profit and overheads				273.16
	Cost for 10 sqm				2094.25
	Cost for 1 sqm				209.43
	Say				209.40

12.49 Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (sfeel frame work to be paid separately)

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 3.60 metre				
	Materials				
8669	Manglore ridge tiles	each	12	25.00	300.00
	20 mm thick				
2207	Carriage of tiles	1000 Nos	12	85.13	1.02
	Labour				
0123	Mason 1st class	Day	0.01	151.50	1.52
0114	Beldar	Day	0.15	135.25	20.29
9999	Sundries	L.S	2.60	1.00	2.60
	Total				325.43
	Add 1% for water charges				3.25
	Total				328.68
	Add 15% for contractor's profit and overheads				49.30
	Cost for 3.60 sqm				377.98
	Cost for 1 sqm				104.99
	Say				105.00

12.50 Providing and fixing precoatedgalvanized iron profile sheets (size, shape and pitch of corrugation as 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in approved by Engineer-in-charge) 0.05 mm. 240 mpa mm 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 while 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 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead 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	Discription	Unit	Quantity	Rate	Amount
	Details of cost of 216.14 sqm. Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- 20.2xl0.70m = 216.14 sqm. Materials: Sheets used = 20 nos.xl0.70mxl.06m=226.84sqm Add 3% wastage = 6.81 = 233.65sqm.				
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	325.00	75936.25
9999	Carriage of sheets	L.S.	104.00	1.00	104.00
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	476	58.00	2760.80
1208	Bitumen washers	100 Nos	476	18.00	85.68
1209	Bitumen washers thick	100 Nos	476	27.00	128.52
9999	Carriage of bolts and nuts, washers etc.	L.S.	806	1.00	8.06
9999	Sundries	L.S.	39.52	1.00	39.52
	Labour:				
0130	Mistry	Day	2.34	151.50	354.51
0112	Carpenter 2nd class	Day	9.34	141.60	1322.54
0114	Beldar	Day	9.34	135.25	1263.23
	TOTAL				82003.11
	Add 1% for water charges				820.03
	TOTAL				82823.14
	Add 15% for contractor's profit and overheads				12423.47
	Cost of 216.14 sqm.				95246.61
	Cost of 1.00 sqm.				440.67
	Say				440.65

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm ± 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :

12.51.1 Ridges plain (500 - 600mm).

Code	Discription	Unit	Quantity	Rate	Amount
	Detail of lost 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 =				
8672	23.11 metre.	metre	23.11	330.00	7626.30
9999	Materials: Precoated galvanised steel plain ridges.	L.S	13.52	1.00	13.52
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S	6.76	1.00	6.76
0130	Sundries	Day	0.14	151.50	21.21
0112	Labour:	Day	0.55	141.60	77.88
0114	Mistry	Day	1.64	135.25	221.81
	Carpenter 2nd class				7967.48
	Beldar				79.67
	TOTAL				

Code	Discription	Unit	Quantity	Rate	Amount
	Add 1 % for water charges				
	TOTAL				8047.15
	Add 15% for contractor's profit and overheads				1207.07
					9254.22
	Cost of 20.20 metre				458.13
	Cost of 1.00 metre				458.15
	Say				

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :

12.51.2 Flashing/ Aprons (Up to 600 mm)

Code	Discription	Unit	Quantity	Rate	Amount
	Details for shed of 20.2 metres completed length				
	Materials:				
8673	Precoated galvanised steel flashings/aprons. = 20.20 + 5% wastage = 23.11 metre	metre	23.11	330.00	7626.30
9999	Carriage of appron pieces. (The appron pieces are to be fixed with the same hooks as the sheets)	L.S	3.25	1.00	13.52
9999	Sundries	L.S	3.25	1.00	3.25
	Labour:				
0130	Mistry	Day	0.07	151.50	10.60
0112	Carpenter 2nd class	Day	0.28	141.60	39.65
0114	Beldar	Day	0.82	135.25	110.90
	TOTAL				7793.95
	Add 1 % for water charges				77.94
	TOTAL				7871.89
	Add 15% for contractor's profit and overheads				1180.78
	Cost of 20.20 metre				9052.67
	Cost of 1.00 metre				448.15
	Say				448.15

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm ± 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete : .-

12.51.3 North light curves.

Code	Discription	Unit	Quantity	Rate	Amount
	Details of North light curve 20.2 metres long complete length				
	Materials:				
8675	Precoated galvanised steel north light curves. = 20.20 + 5% wastage = 23.11 metre.	metre	23.11	360.00	8319.60
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	40.00	58.00	232.00
1209	G.I plain waher thick	100 Nos	40.00	7.00	10.80
1208	Bitumen washers	100 Nos	40.00	18.00	7.20
9999	Carriage of hooks, nuts, washers and curves	L.S	9.88	1.00	9.88

Code	Discription	Unit	Quantity	Rate	Amount
	= 20.20 + 5% wastage = 23.11 metre.				
	G.I. J or L hooks with nuts and bolts 8 mm dia				
	G.I plain waher thick				
	Bitumen washers				
	Carriage of hooks, nuts, washers and curves				
9999	Sundries	L.S	6.24	1.00	6.24
	Labour:				
0130	Mistry	Day	0.10	151.50	15.15
0112	Carpenter 2nd class	Day	1.30	141.60	42.48
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				8778.60
	Add 1 % for water charges				87.79
	TOTAL				8866.39
	Add 15% for contractor's profit and overheads				1329.96
	Cost of 20.20 metre				10 196.35
	Cost of 1.00 metre				504.77
	Say				504.75

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :

12.51.4 Barge board (Upto 300 mm).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 8.23 metres				
	Completed length of barge boards = 8.23 + 5% wastage = 8.64 metre				
	Materials:				
8676	Precoated galvanised steel barge board.	metre	8.64	330.00	2851.20
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.00	30.00	15.00
1211	G.I. plain washers for seam bolts.	100 Nos	10.00	21.00	2.10
1208	Bitumen washers	100 Nos	5.00	18.00	0.90
9999	Carriage of barge boards, bolts, nuts and washers	L.S	9.36	1.00	9.36
9999	Sundries	L.S	6.76	1.00	6.76
	Labour:				
0130	Mistry	Day	0.04	151.50	6.06
0112	Carpenter 2nd class	Day	0.06	141.60	8.50
0114	Beldar	Day	0.40	135.25	54.10
	TOTAL				2953.98
	Add 1 % for water charges				29.54
	TOTAL				2983.52
	Add 15% for contractor's profit and overheads				447.53
	Cost of 8.23 metre				3431.05
	Cost of 1.00 metre				416.90
	Say				416.90

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :

12.51.5 Crimp curve

Code	Discription	Unit	Quantity	Rate	Amount
	Details of crimp curve 20.2 metres long Area 20.20 x 1.06 =21.412 sqm				
	Materials:				
8677	Precoated galvanised steel crimp curve	metre	22.483	420.00	9442.86
1023	G.I. J or L hooks with nuts and bolts 8 mm dia	10 Nos	40.00	58.00	232.00
1209	G.I plain washer thick	100 Nos	40.00	27.00	10.80
1208	Bitumen washers	100 Nos	40.00	18.00	7.20
9999	Carriage of hooks, nuts, washers and curves	L.S	9.88	1.00	9.88
9999	Sundries	L.S	6.24	1.00	6.24
	Labour:				
0130	Mistry	Day	0.10	151.50	15.15
0112	Carpenter 2nd class	Day	0.30	141.60	42.48
0114	Beldar	Day	1.00	135.25	135.25
	TOTAL				9901.86
	Add 1% for water charges				99.02
	TOTAL				10000.88
	Add ,15% for contractor's profit and overheads				1500.13
	Cost of 21.412 sqm				11501.01
	Cost of 1.00 sqm				537.13
	Say				537.15

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa 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 or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :

12.51.6 Gutter .(600 mm over all girth).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost 10 metre. Matrial 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. = 6.36 metre				
8674	Precoated galvanised steel gutter	metre	10.0	360.00	3600.00
9999	Carriage of gutter	L.S	1.04	1.00	1.04
1008	Flats upto 10 mm in thickness	quintal	0.0749	2900.00	217.21
1022	Galvanised steel bolts and nuts 6 mm dia and 25 mm long round head with slot	10 Nos	20.0	9.00	18.00
1024	Galvanised steel bolts and nuts 10 mm dia and 125 mm long	each	30.0	7.00	210.00
1210	G.I. plain washers thin	100 Nos	70.0	20.00	14.00
1208	Bitumen washers	100 Nos	40.0	18.00	7.20
9999	Carriage of G.I. seam bolts and	L.S	2.73	1.00	2.73

Code	Discription	Unit	Quantity	Rate	Amount
9999	Sundries	L.S.	2.73	1.00	5.33
	Labour:				
0120	Blacksmith first class	Day	0.50	151.50	75.75
	Beldar				67.62
0114	Sundries	Day	0.50	135.25	12.61
9999	Mistry	L.S	12.61	1.00	42.42
0130	Blacksmith first class	Day	0.28	151.50	127.26
0102	Carpenter 2nd class	Day	0.84	151.50	87.79
0112	Beldar	Day	0.62	141.60	227.22
0114	TOTAL	Day	1.68	135.25	4716.18
	Add 1% for water charges				47.16
	TOTAL				4763.34
	Add 15% for contractor's profit and overheads				714.50
	Cost of 10.00 metres				5477.84
	Cost of 1.00 metre				547.78
	Say				547.80

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 galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 21x21x0.30 mm and laying false ceiling tiles of approved texture in the grid including, wherever, 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 fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge. (The rate is excluding the cost of tiles which will be paid for separately).

Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm.				
	Materials-				
	GRID				
8,611	Main T ceiling sections 24x38x0.3 mm (3.00 metre long)	each	29.50	162.00	4779.00
	Including Wastage @ 10%				
8,612	Perimeter wall angle 21x21 x 0.30mm (3 metre long)	each	13.50	102.00	1377.00
	Including Wastage @ 10%				
8,613	Intermediate cross T-section 24x25x0.30mm (1.2 mtrs long)	each	147.00	62.00	9114.00
	Including Wastage @ 10% on Grid for cut outs				
8,614	Intermediate cross T-section 24x25x0.30mm (0.60 mtrs long)	each	147.00	29.00	4263.00

Code	Discription	Unit	Quantity	Rate	Amount
	Including Wastage @ 10% on Grid for cut outs				
	Intermediate cross T-section 24x25x0.30mm (0.60 mtrs long)				
	Including Wastage @ 10%				
8,615	Hanger rod 0.5 mm thick	each	72.00	5.00	360.00
8,616	Adjustment clip	each	72.00	4.40	316.80
8,617	Soffit cleat	each	72.00	2.30	165.60
8,618	Dash fastener 6 mm dia 50 mm long	each	72.00	8.00	576.00
9,999	Sundries i.e. scaffolding etc.	L.S.	187.95	1.00	187.95
9,999	Carriage of materials etc.	L.S.	89.28	1.00	89.28
	LABOUR				
0111	Catpenter 1 st class	Day	3.00	151.50	454.50
0114	Beldar	Day	3.00	135.25	405.75
	TOTAL				22 088.88
	Add 1 % for water charges				220.89
	TOTAL				22 309.77
	Add 15% for contractor's profit and overheads				3 346.47
	Cost of 100 sqm.				25 656.24
	Cost of 1 sqm.				256.56
	Say				256.55

S.NO.	Correction Slip No.	Reference No.	Contents in Brief

S.NO.	Correction Slip No.	Reference No.	Contents in Brief

S.NO.	Correction Slip No.	Reference No.	Contents in Brief

S.NO.	Correction Slip No.	Reference No.	Contents in Brief