P: 330323 (954142)

OFFICE OF THE SUPERINTENDING ENGINEER, PWD, VELLAR BASIN CIRCLE, WRO, CUDDALORE :1.

PROCEEDING NO: D.6/F.18/ 354 M/2001, DATED: 1st AUGUST 2001.

SUB : STANDARD SCHEDULE OF RATES - Public Works Department - Standard Schedule of Rates of Vellar Basin Circle - Pertaining to Cuddalore and Villupuram Districts for the year 2001 - 2002 - reg.

ORDER:

The Annual Schedule of Rates Conference for fixing the Schedule of Rates for adoption during 2001 - 2002 was convened in the Office of the Superintending Engineer, Public Works Department, Vellar Basin Circle, Cuddalore on 24th January 2001. The proposals received from the Officers of various Departments and of the Statistical Officer were discussed.

The Zonal Conference of Superintending Engineers of North Zone for finalising the Schedule of Rates for the year 2001 - 2002 was held at Chennai on 7.3.2001 under the Presidentship of the Chief Engineer, P.W.D., Chennai Region, Chennai to study the rates in each District and to arrive at reasonable rates. without large variation in the rates for similar items for the adjacent Districts.

According to the decision taken at the Conference, rates to be adopted for 2001-2002 have been proposed and sent to the Committee formed by the Government as per G.O.Ms.No: 555, Public Works (G:2) Department, dated: 17th November 1999 comprising of (a) Engineer-in-Chief and Chief Engineer(General), PWD., WRO., (b) Chief Engineer (DR & CS), PWD., WRO and a representative from the Finance Department of the Tamil Nadu Government Secretariat. The rates proposed for the various Regions have been analised and approved vide Engineer-in-Chief and Chief Engineer(General)'s Proceedings No: HDO(A)/58465/2001, dated: 21st July 2001 for the year 2001-2002 with effect 1st August 2001 and also stated therein that the existing Schedule of Rates (2000 - 2001) may be continued upto 31st July 2001.

The Current I.S.D. Rates shall be adopted for Materials for which Rate Contracts or Running Contracts are in existence. In respect of materials for which there is price control, the controlled rates shall only be adopted not with standing the rates mentioned in the Schedule of Rates.

As only limited copies have been prepared, the Officers are requested to manage with the copies now supplied.

SUPERINTENDING ENGINEER, P.W.D.,
WRO., VELLAR BASIN CIRCLE, CUDDALORE:1

Encl: Standard Schedule of Rates for the Year 2001 - 2002.

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CONVERSION TABLE.
SHOWING THE EQUIVALENT UNITS OF C.G.S TO F.P.S. UNITS:

C.G.S. (Metric units)	F.P.S. Units
10 cum.(ten cubic metre)	: 353.15 cubic feet
1 cum.(one cubic metre)	: 35.315 cubic feet
0.01 cum. (one hundredth of a cubic metre) (or) 10 dm3 (ten cubic decimetre)	: 0.35315 cubic feet
10 sqm. (ten square metre)	: 107.639 Square feet
1m. (one metre)	: 3.28084 feet
1 g. (one quintal)	: 1.9684 cwt.
1 kg.(one kilogram)	: 2.2046 lb.
1 t. (one tonne)	: 0.9842 Ton
1 l. (one litre)	: 0.21998 Imperial Gallon

SHOWING THE EQUIVALENT UNITS OF F.P.S. TO C.G.S.UNITS:

1 cft. (one cubic foot)	: 0.0283 cubic metre
100 cft . (one hundred cubic feet)	: 2.83 cubic metre
1000 cft. (one thousand cubic feet)	: 28.32 cubic metre
1 sft . (one square foot)	: 0.0929 square metre
100sft.(one hundred square feet)	: 9.29 square metre
1 cwt. (one hundred weight)	: 0.508 quintal
1 lb. (one pound)	: 0.4536 kilogram
1 rft. (one running feet)	: 0.3048 metre
100 rft. (one hundred running feet)	: 30.48 metre
1 t. (one ton)	: 1.016 tonne
1 imperial gallon	: 4.54596 litre
1 U.S.Gallon	: 3.78533 litres.

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DRDA 14.

Cement = 2740
Steel — 16850

Cement = 329/RM — 156.60
Steel — 15450
4 —

GENERAL NOTE.

1. The rates in this Schedule are applicable for the Cuddalore and Villupuram Districts.

2. The rates for all items of Labour, Materials and Conveyance are only in metric system for adoption.

3. The rates for all items of Labour and Materials will apply to all Places, including for Municipalities and no extra percentage should be allowed for Municipal Areas. For works within the Central Jail Compound 10% (5) extra and Sub Jail Compound 5% extra is allowed over the Rates of Labour, Rate of Works Involving Basic Labour and Rates for Conveyance of Materials for the portion in the specified area(i.e. for the distance within the Jail Compound).

4. For works which are in River Bed (for River over 20 Metres Width only) and 10% extra on Labour, Earthwork and Conveyance of Materials within the River Bed. This extra should not be allowed for the Cost of Materials.

5. The current I.S.D. Rates shall be adopted for Materials for which there are Rate Contracts, Running Contracts in existence. In respect of Materials for which there is price control the Controlled Rates shall only be adopted not withstanding in rates mentioned in the Schedule of Rates.

6. For works in Kalrayan Hills, 60% Extra is allowed on the (i) Basic Rates for Labour, (ii) Rate for Earth Work, (iii) Rate for Materials (if available or manufactured locally) and (iv) Transport Charges of Materials.

Twenty percent over the rates indicated will be allowed for all works in the "Reserved Forest Areas" and 5 Kilometres belt around it excluding Municipal Limits. This percentage will not apply to Materials procured outside the Reserved Forest Area and 5 Kilometres belt around it and also from Plains. This Percentage will not be allowed for areas other than Reserved Forest Area as noted above.

NOTE: The Basic Rates for Labour includes such works as Mixing Mortar, Refilling foundations, Cutting and Bending Rods for Grill Works, Dismantling, Jungle Clearance, etc., where Human Labour is only involved.

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SCHEDULE OF RATES FOR THE YEAR 2001 - 2002.

Sl. No.	Details	Per	Rate for the year 2001 - 2002	year 02
	I. RATES OF LABOUR:		Rs.	
2	Axe Mazdoor	Day	80.00	
4	Blacksmith Ist Class	Day	105.00	
4A	Blacksmith IInd Class	Day	95.00	
5	Boat Mazdoor	Day	90.00	
8	Bullock pair with Driver(with bandy)	Day	160.00	
8A	Bullock single with Driver (with bandy)	Day	120.00	
11	Carpenter Ist class	Day	140.00	
12	Carpenter IInd class	Day	120.00	
13	Caulker	Day	85.00	
15	Cleaner Ist Grade	Day	70.00	
15A	Cleaner IInd Grade	Day	65.00	
18	Ferry Mazdoor	Day	90.00	
19	Fitter Ist class	Day	100.00	
19A	Fitter IInd class	Day	90.00	
20	Fitter pipe Laying (or) Bar bending Ist class	Day	100.00	
20A	Fitter pipe Laying (or) Bar bending IInd class	Day	90.00	
21	Floor polisher (Mosaic)	Day	100.00	
22	Gardener	Day	75.00	
25	Hammer Mazdoor	Day	85.00	
26	Head Mazdoor for well sinking	Day	90.00	
27	Driver Light Duty Vehicle	Day	105.00	
27A	Driver Heavy Duty Vehicle	Day	110.00	
28	Jumper Mazdoor	Day	80.00	
36	Maistry, Road Inspector and Work Inspector	Day	100.00	
36A	Maistry, Road Inspector and Work Inspector (for Degree Holder)	Day	105.00	
37	Mason for Brick work Ist Class	Day	140.00	
37A	Mason for Brick work IInd Class	Day	120.00	
38	Mason for Stone work Ist Class	Day	140.00	
38A	Mason for Stone work IInd Class	Day	120.00	
39A	Mazdoor Category I	Day	80.00	
39B	Mazdoor Category II	Day	75.00	
39C	Head Mazdoor	Day	85.00	
40	Mechanic Ist Class	Day	105.00	
40A	Mechanic IInd Class	Day	97.00	
42	Moplah Ist Class	Day	105.00	
42A	Moplah IInd Class	Day	95.00	
43	Navagonies (or) Javali Man Ist Class	Day	90.00	
44	Painter (or) Varnisher Ist Class	Day	108.00	
44A	Painter (or) Varnisher IInd Class	Day	100.00	
46	Pile Driver	Day	85.00	
47	Plumber Ist Class	Day	110.00	
47A	Plumber IInd Class	Day	100.00	
48	Pump Driver	Day	90.00	
52	Sawyer	Day	100.00	
55	Sprayer Mazdoor (for bitumen, tar etc.)	Day	80.00	
56	Stone Cutter Ist Class	Day	110.00	
56A	stone Cutter IInd Class	Day	100.00	
57	Sweeper	Day	80.00	
58	Syrang Ist Class	Day	110.00	
58A	Syrang IInd Class	Day	95.00	
60	Thatcher	Day	80.00	

Sl. No.	Details	Per	Rate for the year 2001 - 2002
			Rs.
62	Tinker Ist Class	Day	80.00
63	Turner Ist Class	Day	95.00
63A	Turner IInd Class	Day	90.00
67	Welder/Bracer Ist Class	Day	110.00
67A	Welder/Bracer IInd Class	Day	100.00
68	Well Driver for removing silt Ist Class	Day	100.00
68A	Well Driver for removing silt IInd Class	Day	90.00
69	Well Sinker Ist Class	Day	105.00
69A	Well Sinker IInd Class	Day	95.00
70	Well sinking Driver working with Helmet (Above 2 metre depth of water)	Day	110.00
72	Wodder	Day	85.00
75	Gurka Watchman	Day	80.00
76	Technical Assistants:		
A	Technical Assistant - Grade :I (B.E. Passed)	Day	180.00
B.	Technical Assistant - Grade:II (Diploma in Engineering passed or B.E. Failed, Geology Graduate for Ground Water Works)	Day	160
C	Technical Assistant - Grade:III (Diploma in Engineering failed or I.T.I. (Civil) passed)	Day	140.00
D	Cinema Operator (I.T.I . Passed)	Day	105.00
E	B.Sc. (Agriculture) Passed	Day	150.00
77	Laboratory Assistants:		
A	Grade:I Post Graduate in Science	Day	125.00
B.	Grade:II Graduate in Science/Degree in Geology for Ground Water)	Day	110.00
C	Grade III (with Degree qualification to work as Works Clerk)	Day	100.00
78A	Mazdoor Employed for Geological Mapping	Day	80.00
B.	Mazdoor Employed for pitting, trenching, sampling and drilling Works	Day	80.00
C	Mazdoor employed for Geophysical Investigation work	Day	80.00
D	Head Mazdoor to supervise exploratory works	Day	85.00
79	Mixer including Concrete Mixer Operator(Drum Mixer)	Day	80.00
80	Mixer Driver	Day	80.00
81	Compressor Operator	Day	80.00
84	Watchman	Day	70.00
89	Computer Operator		
A	Grade -I - B.E / M.Sc (Computer Science) / MCA	Day	180.00
B	Grade- II - B.Sc (Computer Science)	Day	160.00
C	Grade- III -Diploma in Computer Science	Day	140.00
90	Irrigation Community Organiser Grade:I B.E. (Agr.) Passed/B.Sc.(Agri.) Passed/. P.G. (Geology) and Rural Development	Day	180.00
	Grade:II B.E. (Agri.) Failed/B.Sc.(Agri.) Failed Diploma in Agriculture passed	Day	140.00
95	Heatmaster - Operator	Day	85.00
96	Raker	Day	85.00
97	Geological Assistant	Day	140.00
98	Stone & Crusher Operator	Day	85.00
99	Heavy Mazdoor	Day	95.00

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Sl.No	Details	Per	Rate for the year 2001 - 2002 Rs.
	2. RATES OF MATERIALS		
1	**BRICKS AND TILE PRODUCTS:**		
2	Brick - II Class Table Moulded (Chamber Burnt)		
a	23 X 11 X 7cm	1000 Nos.	
b	9" X 4 1/2 " X 3 "	1000 Nos.	1900.00
c	9" X4 3/8 " x 2 3/4"	1000 Nos.	1750.00
d	Bricks - II Class Ground Moulded		
e	9" X 4 1/2 " X 2 1/2 "	1000 Nos.	
f	Brick -II Class (Chamber Burnt) 8 3/4" X 4 1/4" X2 3/4"	1000 Nos.	1700.00
g	8 3/4" X 4 1/4" X2 1/4"	1000 Nos.	
h	19 x 9 x 5.7 CM	1000 Nos.	
3	Bricks - III Class (Country bricks, Kiln burnt)		
a	8 3/4" X 4 1/4" X2 1/2"	1000 Nos.	1275.00
b	22cm X 11cm X 5cm (8 3/4" X 4 1/4" X2")	1000 Nos.	1250.00
c	22cm X 11cm X 5.7cm (8 3/4" X 4 1/4" X2 1/4")	1000 Nos.	1200.00
d	22cm X 11cm X 7cm (8 3/4" X 4 1/4" X2 3/4")	1000 Nos.	1350.00
e	9" X 4 1/4" X 2"	1000 Nos.	1100.00
f	9" X 4 1/2" X 3"	1000 Nos.	1400.00
g	19cm X 9cm X 5.7 Cm	1000 Nos.	1200.00
h	23cm X 11.4 cm X 7.5cm (9" X 4 1/2" X 3")	1000 Nos	1400.00
i	23 X 11 X 5cm	1000 Nos.	
3a	Fly Ash bricks (Fal.G.Bricks)		
a	230 X 110 X 75mm	1000 Nos.	1500.00
b	230 X 110 X 72mm	1000 Nos.	1400.00
4	Bricks Country (Specially molded for well stealing)		
a	8 3/4" X 4 1/4" X 2"	1000 Nos.	840.00
b	Perforated Bricks 19cm X 9cm X9cm	1000 Nos.	1450.00
c	Terrace Bricks 15cm X7.5cm X 2.5cm	1000 Nos.	350.00
8	Flat Tiles		
	15cm X 15cm X 12mm.	1000 Nos.	420.00
	15cm X 15cm X 20mm.	1000 Nos.	500.00
10	Brick jelly		
a	40mm Size	1 M3	120.00
b	25mm.Size	1 M3	
c	20mm.Size	1 M3	140.00
11	Pressed tiles		
	20cm X 20cm X 2cm	1000 Nos.	3500.00
	23cm X 23cm X 2cm.	1000 Nos.	4200.00
12	Pan Tiles		
	23 cm	1000 Nos.	220.00
	18.5cm X 8cm	1000 Nos.	180.00
13	Best mangalore tiles		
a	1st class 'A'	1000 Nos.	5000.00
b	Class 'AA'	1000 Nos.	5300.00
c	Ridge tiles	1000 Nos.	15200.00
d	Ceiling tiles	1000 Nos.	3200.00
e	Glass roofing tiles	Each	150.00
f	Ventilating Tiles(Single)	Each	25.00
g	Ventilating Tiles(Double)	Each	30.00
23A	Mosaic Flooring tiles GREY		
a	25cm X 25cm X 20mm	1000 Nos.	8000.00
b	20cm X 20cm X 20mm	1000 Nos.	5100.00
23C	Mosaic (Other colour)		
a	25cm X 25cm X 2cm	1000 Nos.	11000.00
b	20cm X 20cm X 2cm	1000 Nos.	8500.00
c	Mosaic (Green) 20cm X 20cm X 2cm	1000 Nos.	8000.00
d.	Mosaic (Green) 25cm X 25cm X 2cm	1000 Nos.	12500.00
24	Chequered Tiles of Grey Colour size 20cm X 20cm	1000 Nos.	10000.00

No	2002 No	Details	Per	Rate for the year 2001 - 2002
		STONE AND ROAD MATERIALS		Rs.
	7	For Stone Masonry work (Hard Granite)	1 m^3	160.00
	8	For Stone revetment works	1 m^3	140.00
	9	Jeddy size for revetment (Hard Granite)	1 m^3	150.00
A	A	Cut Stone Pillar of Size 0.15 X 0.15 X 2.1M.	Each	80.00
	0	From boulders without blasting for revetment	1 m^3	55.00
A	A	From boulders without blasting for masonry	1 m^3	80.00
2	2	Coursed rubble stone for masonry work	1 m^3	170.00
3	3	For CR Arch work	1 m^3	185.00
A	A	Chisel dressed stone 70cm X 30 cm X 29cm	1 RM	85.00
	1	37cm X 30cm X 29cm	1 RM	75.00
0	3)	Hammer dressed stones 37cm X30cm.X 29cm	1 RM	55.00
4	4	Cut stone fully dressed to size on all faces	1 m^3	3000.00
5	5	Cut stone roughly dressed	1 m^3	2100.00
6	6	Ashlar Arch stone fully dressed to size all faces	1 m^3	2300.00
8	8	Flooring stones SS Size (Not less than 10cm thick)	1 m^2	170.00
9	9	Stones slabs for culvert(three faces one line dressed)		
		Above 1.2m	1 m^3	2200.00
		Upto 1 2m	1 m^3	2000.00
0	0	Stones slabs for culvert three faces two line dressed)	1 m^3	2300.00
1	1	For lintel copings (three faces two line dressed)	1 m^3	2100.00
2	2	Bond stones	1 m^3	200.00
	3a	Kilometer stones 1.65m X0.45m.X0.15m	Each	210.00
	4a	Hectometer stones 0.90X0.10X0.10m	Each	
	b	0.75 X 0.23 X 0.10m	Each	120.00
	c	0.90 X 0.15 X 0.15m	Each	115.00
	5	Demarcation stones (Two line dressed for top 30cm)	Each	
	a	0.75 X 0.15 X 0.15m	Each	55.00
	b	0.90 X 0.15 X 0.15 m	Each	58.00
	c	0.78 X 0.23 X 0.23 m	Each	
	d	0.90 X 0.15 X 0.15 m	Each	
	6	Demarcation stone with letters cut 0.75X0.15X0.15m	Each	65.00
	7	Edge stone 0.45 X 0.15 X 0.15 m	Each	
	8	T.R.S. Bench March Stone neatly dressed the exposed surface to a height of 15cm. including cutting letters	Each	75.00
		0.15 X 0.15 X 0.60 m	Each	103.00
		0.10 X 0.10 X 0.25 m	Each	80.00
	a	Guard Stone (Two line dressed for top 45cm) 23cm dia 1.0m long	Each	90.00
	b	Guard stone (Top 0.70m chisel dressed and 0.5 m bottom roughly dressed) 0.20m X 0.2m X 1.20 m long	Each	95.00
	c	0.23m X 0.23m X 0.9 m long	Each	
	d	0.15m X 0.15m X 0.90m long	Each	
	e	Guard stone 90 cm long 23 cm dia	Each	115.00
	8	Hard Broken Stone (Granite) I.S.S. Standard		
		90mm size	1 m^3	66.00
		80mm size	1 m^3	160.00
		63mm size	1 m^3	160.00
		50mm size	1 m^3	170.00
		40mm size	1 m^3	230.00

Sl.No	Details	Per	Rate for the year 2001 - Rs.
vi.	25mm size	1 m^3	285.00
vii	20mm size	1 m^3	385.00
viii	12mm size	1 m^3	375.00
ix	10mm size	1 m^3	350.00
x	6mm size	1 m^3	270.00
xi	3mm size	1 m^3	250.00
48A	Hard Broken Stone I.R.C Standard		
i	90mm size	1 m^3	63.00
ii	80mm size.	1 m^3	100.00
iii	75mm size	1 m^3	90.00
iv	63mm size.	1 m^3	130.00
v	53mm size	1 m^3	160.00
vi	50mm size	1 m^3	165.00
vii	45mm size	1 m^3	185.00
viii	40mm size	1 m^3	225.00
ix	37.5 mm size	1 m^3	160.00
x	26.5mm size	1 m^3	260.00
xi	25mm size	1 m^3	270.00
xii	22.40 mm size	1 m^3	325.00
xiii	20mm size	1 m^3	375.00
xiv	13.20 mm size	1 m^3	370.00
xv	12mm size	1 m^3	365.00
xvi	11.20mm size	1 m^3	340.00
xvii	10mm size	1 m^3	330.00
xviii	6.70 mm size	1 m^3	250.00
xix	6mm size	1 m^3	250.00
xx	5.60 mm size	1 m^3	250.00
xxi	4.75 mm size	1 m^3	250.00
xxii	4 mm size	1 m^3	250.00
xxiii	2.80 mm size	1 m^3	250.00
xxiv	2.36 mm size	1 m^3	250.00
xxv	2 mm size	1 m^3	250.00
48 A-1	Hard Broken Stone (Granite) I.S.S (Machine Crushed broken stone jelly)		
i	20 mm size	1 m^3	420.00
ii	12 mm size	1 m^3	410.00
iii	10 mm size	1 m^3	370.00
iv	6 mm size	1 m^3	280.00
48 B	Hard Broken Stone (Granite) I..R.C (Machine Crushed broken stone jelly)		
i	20mm size	1 m^3	400.00
ii	13.2 mm size	1 m^3	395.00
iii	12mm size	1 m^3	390.00
iv	11.2mm size	1 m^3	385.00

Sl.No	Details	Per	Rate for the year 2001 - 2002 Rs.
v	10mm size	1 m^3	375.00
vi	8.7mm size	1 m^3	300.00
vii	6mm size	1 m^3	270.00
viii	5.60mm size	1 m^3	250.00
ix	4.75mm size	1 m^3	250.00
x	4mm size	1 m^3	250.00
xi	3.80mm size	1 m^3	250.00
xii	2.36mm size	1 m^3	250.00
xiii	2 mm size	1 m^3	250.00
49a	Broken Stone from surface stone and boulders		
i	40mm size	1 m^3	40.00
ii	50mm size	1 m^3	35.00
iii	60mm size	1 m^3	30.00
iv	75mm size	1 m^3	
49b	Quartz metal		
i	50mm	1 m^3	50.00
ii	40mm	1 m^3	80.00
50A	Labour charges for breaking 40mm metal from departmental blasted stones	1 m^3	120.00
50B	Labour charges for breaking 20mm metal from departmental blasted stones	1 m^3	47.00
50C	Labour charges for breaking 50mm metal from departmental blasted stones	1 m^3	32.00
51	Soft broken stone		
i	63mm	1 m^3	40.00
ii	40mm	1 m^3	50.00
52	Latrerite 40mm. to 75mm. size	1 m^3	29.00
53	Kankar 40mm. to 75mm. size	1 m^3	60.00
54	Soling stones (Granite) 15cm cube (unblasted)	1 m^3	70.00
54a	Soling stones (Granite) 15cm cube (blasted)	1 m^3	26.00
57	Gravel	1 m^3	23.00
57A	Well Gravel	1 m^3	
57B	Screened Kunkar gravel	1 m^3	10.00
58	Quarry Rubbish	1 m^3	
58A	Stone Dust	1 m^3	40.00
59	Sand for mortar	1 m^3	30.00
60	Sand for filling	1 m^3	20.00
62	Clay for puddle and masonry.	1 m^2	250.00
63(i)	Cuddapah slab 50mm thick	1 m^2	240.00
ii	Cuddapah slab 38mm/ 40mm thick	1 m^2	220.00
iii	Cuddapah slab 20mm/ 30mm thick		

NOTE:

1. These are only for Dam Structure Chisel dressed or Hammer dressed hard granite face stones shall be 0.29m. high being not less than 0.30m. wide and 0.37m. tail length, 20 percent being bor stones not less than 0.70m. tail length, face double line chisel dressed or hammer dressed as the case may be for atleast 0.08m. four faces and tail left as quarried measurement will be ... work measured along the face length of the stones shall be arranged in rows on level ... Officers near the site of work.

2. Enter the Class of Stones in remarks column opposite the items for such further description as may be necessary. One line dressed stone will be classed under coursed rubble.

3. For Sand Items, necessary deductions for bulkage are to be made with reference to Circular Memorandum No: 595/53/CP., 9th September 1953 of Chief Engineer(General),PWD and G.O. Ms. No: 2377, Public Works Department, 3rd September 1964.

Procedure for arriving at the bulkage of sand and allowance there for (Reference No: 595/53/CP, 9th September 1953 of Chief Engineer(General), P.W.D.

(1) Sand occupies minimum volume (1) when it is perfectly dry and (2) when it is completely saturated with water with the addition of water, the volume of sand increase, causing bulking of sand 5 to 7 percent water if the sand increase its volume 20 to 30 percent. Since sand is generally measured by volume and used on the work, it is necessary that the bulking of sand due to moisture content in it should be taken into consideration and allowance made for it in proportioning mortar and concrete in the case of all important works as may be decided by the Executive Engineer.

(2) The percentage of bulking of sand can be determined easily by conducting the following simple test in the field.

(3) Take a cylindrical graduated glass jar of about 3 inches diameter and 15 inches height. Fill it upto say, 12 inches depth with the sand whose bulking peroentage is to be decided and note the volume (X). Now add gradually water in the jar and simultaneously prod the sand with a thin rod so that water reaches the bottom and all the sand particles get saturated with water. This operation must be continued till a thin film or water appears on the surface of sand. Note the present volume of sand (Y). The percentage of bulking is given by (X - Y)/Yx100.

(4) The net quantity of sand to be paid for after allowing the bulkage. Gross stacked quantity X 100/100 + Percentage of bulking.

Sl.No	Details	Per	Rate for the year 2001 - 2002
	LIME AND CEMENT		Rs.
66	Shell lime(slacked and screened)	1 m^3	1000.00
67	Freshly slacked and screened burnt lime stone	1 m^3	750.00
68	Stone lime or lime metal	1 m^3	
69	Cement mortar		
I	Grinding Mortar (special grinding lime)	1 m^3	80.00
II	Grinding Mortar (Ordinary grinding lime)	1 m^3	60.00
iii	Mixing Cement Mortar	1 m^3	25.00
iv	Mixing Cement Mortar by Machine	1 m^3	35.00
	TIMBER AND ROOFING MATERIALS.		
71	Teakwood scantlings, large in length of over 3 metres for joists and rafters (Malabar)	1 m^3	66500.00
72	Teakwood scantlings for tie beams and principal rafters of Malabar	1 m^3	66500.00
73	Teakwood scantlings over 2 metre and below 3 metre in length Malabar	1 m^3	63500.00
74	Teakwood scantlings below 2 metre in length - malabar	1 m^3	55500.00
75(i)	Teakwood planks over 45cm.wide 12mm.thick	1 m^3	70000.00
ii	Over 30cm.andupto 45cm.wide and12mm.thick.	1 m^3	65000.00
iii	Over 30cm.and upto 45cm.'wide and12mm.to25mm.thick.	1 m^3	62000.00
iv	Over 30cm.and upto 45cm.'wide and 25mm.to 40mm.thick.	1 m^3	59500.00
v	Over 15cm.and upto 30cm.wide and12mm.thick.	1 m^3	58000.00
vi	Over 15cm.and upto 30cm.'wide and12mm.to25mm.thick.	1 m^3	55000.00
vii	Over 15cm.and below 30cm.'wide and 25mm.to 40mm.thick.	1 m^3	54000.00
viii	Upto 15cm wide and 12mm thick	1 m^3	53000.00

.No	Details	Per	Rate for the year 2001 - 2002 Rs.
ix	Upto 15cm wide and 12mm to 25mm thick	1 m^3	53000.00
x	Upto 15cm wide and 25mm to 40mm thick	1 m^3	50000.00
76	Teakwood best reepers		
i	50mmX25mm.	1 RM	45.00
ii	50mmX12mm.	1 RM	35.00
77(i)	Countrywood scantlings upto 4m in length.	1 m^3	20000.00
ii	countrywood scantlings over 4m in length	1 m^3	21000.00
77A	Country wood scantlings for tie beam and principal rafters for trusses	1 m^3	21000.00
77B	Jack wood scantlings upto 4m	1 m^3	22000.00
77D	Silver Oak scantling	1 m^3	9100.00
78	Country Wood planks		
i	40mm thick upto 30cm wide	1 m^3	23000.00
ii	25mm thick upto 30cm wide	1 m^3	23000.00
iii	40mm thick over 30cm wide	1 m^3	23000.00
iv	25mm thick over 30cm wide	1 m^3	23000.00
78A	Jackwood planks 25 to 40mm	1 m^3	24000.00
78B	Silver Oak plank 40mm thick	1 m^3	10400.00
78C	Blue gum Plank	1 m^3	10600.00
79	Countrywood reepers		
i	50mm X 25mm	1 RM	20.00
ii	50mm X 12mm	1 RM	15.00
80	Mango planks	1 m3	9900.00
81	Palmyrah Trees rafters (best hard) 50mm to 60mm wide and 125 mm depth	1 RM	25.00
90	Casurina poles		
a	13 cm to 15 cm diameter	1 RM	20.00
b	10 cm to 13 cm diameter	1 RM	15.00
c	8 cm to 10 cm diameter	1 RM	12.00
d	5 cm to 8 cm diameter	1 RM	10.00
91	Casurina bullies 4cm to 5 cm diameter and cross ties	1 RM	8.00
92	Bamboo large 10 cm diameter and above	1 RM	7.00
	7.5 cm to 10 cm diameter	1 RM	6.00
	For Kongu Andaman Kariamarudhu and Pillamarudhu wood add Rs.2895 extra over the corresponding rates.		
	The use of Teakwood is subject to the Circular Instructions issued by the Chief Engineer(General),PWD from time to time.		
	For distinguishing between Pillamarudhu and Thani wood which very much resemble one another the practical test in field is given below. A chip of Thani wood if put in the mouth and chewed will become powdery quickly. But a chip of pillamarudhu wood if similarly chewed it will become filerous and not powdery as in the case of former.		
	METALS AND IRON WORKS.		
111	Mild steel plates or sheets BG 10	1 Kg	22.00
112	Mild Steel Angles 25mm X 25mmX 3mm	1 Kg	16.50
113	Binding wire (Black 18 G)	1 Kg	24.00
113b	Binding wire (Galvanized -18 G)	1 Kg	28.00
114	G.I sheets 30 cm wide and 1.6mm thick	1 m^2	300.00
121	Petty iron work for truss, straps, etc. wrought and fixed(labour only)	1 Kg	12.00
125	Iron work for trusses and record rack (labour only)	1 Kg	11.00

Sl.No	Details	Per	Rate for the year 2001 - 2 Rs.
125A	Supplying and fixing grills for windows ventilators etc.including priming coat.	1 Kg	30.00
126 i	Weld mesh 7.5 X 2.5 cm , 10 gauge	$1\ m^2$	175.00
ii	7.5 X 5 cm , 10 gauge	$1\ m^2$	150.00
iii	10 X 10 cm , 10 gauge	$1\ m^2$	85.00
127	Fixing M.S. rods round square of windows	I Kg	6.50
128	Fixing iron bars in windows and ventilators	I Kg	6.50
129	Chiecken Mesh	$1\ m^2$	
130	Fly Proof Mesh	$1\ m^2$	
	NOTE: I.S.D.Rates or local market rate have to be adopted. Rates fluctuate. Enter average current rates for estimate purposes.		
	3. RATES OF WORKS		
	(I) CLEARING SITE		
1	Clearing heavy jungle.	$1\ m^2$	3.00
2	Clearing light jungle.	$1\ m^2$	2.00
3	Clearing scrub jungle.	$1\ m^2$	1.50
4	Uprooting and removing large palmyrah or Cocount stumps	Each	50.00
5	Uprooting and removing small palmyrah or Coconut Stumps	Each	30.00
9	Removing weeds in channels and drains	$1\ m^2$	0.50
9c	Clearing juliflora jungle with uprooting	$1\ m^2$	3.50
9d	Clearing juliflora jungle without uprooting	$1\ m^2$	2.00
	NOTE: Definition of large small stumps: The diametre of the stumps shall be 1/3 of the circumferance at a point 60cm.above the highest ground level at the stump or the circumferance near the top of the stump, if the stump is less than 6Ccm. in height the measurement for the circumferance and determination of the diameter will be the nearest full inch (25cm) only stumps with circumferance of 30cm. and more will be measured for payment. Thus Sl.No:4 is for stumps for diameter, above 30cm.and Sl:No:5 is for stumps of diameter from 15cm. to 30cm.		
	(II) DISMANTLING:		
10	Dismantlings claering away and carefully stacking materials useful for reuse for any thickness of walls		
11	Brick or stone in clay walls under 3m.height	1 m3	32.00
	Add for every additional of 3m. of part there of over the initial height of 3m.	1 m3	8.00
11A	Mud or sundried brick walls under 3m.height.	1 m3	14.00
11B	Mud or sundried brick walls add for every additional 3m.or part thereof over the initial height of 3m.	1 m3	3.00
12	Brick or stone masonry in lime mortar of wall under 3m. height	$1\ m^3$	65.00
13	Brick or stone masonry in lime mortar walls, add for every additional 3m.or part thereof over the initial height of 3m.	$1\ m^3$	6.00
14	Brick or stone masonry in cement mortar wall under 3m. height	$1\ m^3$	80.00
15	Brick or stone masonry in cement Mortor mortar walls add for every additional 3m.or part thereof over the initial height of 3m.	$1\ m^3$	7.00
16	Terracing work in roof or floor	1 sq.m	18.00
17	Flat stone in roof or floor including lifting	Each	9.00
18	Cut stone slabs over culverts upto 3.3m height below ground level	$1\ m^3$	[illegible]

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Sl.No	Details	Per	Rate for the year 2001 - 2002 Rs.
19	Cut stone slabs over culverts over 3.3m height below ground level	1 m^3	240.00
20	Removal of cut stone slabs and R.C.C slabs	1 m^3	100.00
21	Removing and refixing cut stone slabs	1 m^3	250.00
22	Refixing cut stone slabs	1 m^3	100.00
23	Pantile or mangalore tiled roofs without roof timbers	1 Sq.m	4.00
24	Flat and pan tiles or mangalore tiles over flat tiles,without roof timbers	1 Sq.m	5.00
25	Asbestos cement sheet roof without roof timbers	1 Sq.m	3.50
26	Corrugated iron sheet roofing with pan tiles over without roof timbers	1 Sq.m	5.50
27	Old thatched roof including tying materials into small bundles for reuse	1 Sq.m	1.50
28	Wrought and framed timbers in roof or floors	1 m^3	140.00
29	Doors and windows including removing frames hinges and fastenings	1 sq.m	30.00
32	Dry stone apron of revement and stacking within 40m.lead	1 m^3	25.00
33	Grouted rough stoneaprons or revetment stacking within40m.lead	1 m^3	30.00
34	Dry stone masonry walls	1 m^3	21.00
36	Dismantling lime concrete	1 m^3	65.00
37	Dismantling cement concrete	1 m^3	100.00
38	Dismantling reinforced Cement concrete	1 m^3	1400.00
38A	Chipping the concrete and roughening thesurface	1 m^2	8.50
B	Pressed tiles and weathering course	1 m^2	10.00
C	One course of pressed tile roof finish in cement mortor	1 m^2	5.00
D	Two course of terrace bricks roof finish in cement mortor	1 m^2	6.00
E	Two course of flat tiles finished in cement mortor	1 m^2	5.75
F	mosaic in situ finish in cement mortor in flooring and in wall surface	1 m^2	12.00
G	Floor finish and daddoing walls in cement mortar with mosaic tiles / glazed tiles / cuddapah salbs	1 m^2	11.50

NOTE: The rate for dismantling Lime Concrete, Cement Concrete and Reinforced Cement concrete are exclusive of baling charges.The rate is same in all floors.
For dismantling below ground level 25%extra over the basic rates i.e. the rate already available in the Schedule of Rates for dismantling is allowed.

Kg.

Sl.No	Details	Per	Rate for the year 2001 - 200 Rs.
	QUARRYING AND BLASTING		
39	Hardrock measured in solid including blasting and stacking	1 m3	165.00
39A	Removing hard rock by wedging, chiseling and trimming to proper shape where blasting is prohibited	1 m3	310.00
40 A	Medium rock and dense medium rock requiring blasting & stacking	1 m3	85.0C
42A	Extra for every additional 10m.lead or part thereof over the initial lead of 2m for blasted materials	1 m3	2.00
42B	Extra for every additional 1m.lift or part thereof over the initial lift of 2m. for blasted materials	1 m3	2.00
44	Benching hard rock upto an average.10cm.depth	1sq.m	150.00
46	Drilling holes in hard granite 40mm. diameter	1 RM	50.00
46A	Drilling holes in hard granite 45mm. diameter	1 RM	60.00
47	Drilling holes in hard granite 50mm. diameter	1 RM	70.00
48	Drilling holes in hard granite 75mm.diameter	1 RM	85.00
49	Drilling holes in hard granite 32mm.diameter	1 RM	
	NOTE:		
	(a) A deduction of 40 percent is tobe for the quantity of voids on stack measurement and payment is for the lesser of two viz. solid measurement or stack measurement minus 40% of stack measurement for voids.		
	(b)The rates for extra lead and lift are on the quantity as per solid measurement or stack measurement less 40% for voids whichever is less. These rates are applicable for head load only.		
	(c) Double the relevant rate will apply for rock classification for excavation of foundation for building, culverts, cause-ways, bed dams, body walls, abutments piers, wings and returns of anicuts, weirs and other cross masonry works and for trenches for water supply and drainage works for laying pipe lines and for foundation pits for poles and towers		
	EARTH WORK		
49	Earthwork excavation and depositing on bank within initial lead of 10m. and initial lift of 2m. in Sand, silt or other loose soil wet sand or silt not under water, light black cotton soil sandy loam and ordinary soil including excavated earth SS 20A.	1 m3	17.00
50	Sand, silt or other loose soil wet sand or silt not under water, light black cotton soil sandy loam and ordinary soil including excavated earth SS 20B.	1 m3	15.00
50A	Slush and silt under water upto 0.75m depth requiring the aid of baskets and vessels SS20 B	1 m3	20.00

Sl.No

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Sl.No	Details	Per	Rate for the year 2001 - 2002 Rs.
50B	Trimming the bed and side slopes of the banks in all soils except hard rock upto a thickness of 7.5cm and making it ready to receive the concrete and PCC slab	1 M2	4.00
50C	-do- 0.75 to 1.50 m depth	1 m3	
50D	Sectioning during forming bunds when earth moving machineries , lorries and rollers for consolidation are used	1 m3	3.00
61	Hard stiff clay, stiff black cotton soil, hard red earth, shales, murrams gravel, stoney earth & earth mixed with small size boulders and hard gravelly soil SS 20A	1 m3	25.00
62	Hard stiff clay, stiff black cotton soil, hard red earth, shales, murrams gravel, stoney earth & earth mixed with small size boulders and hard gravelly soil SS 20B	1 m3	22.00
67	Soft disintegrated rock, laterite soft rock or kunkar, not requiring blasting		
67 (a)	In loose boulders in excavation of various size 150mm to 625 mm & hand mixer in earth	1 m3	35.00
72	Medium rock and dense medium rock not requiring blasting	1 m3	55.00
76	Extra for every additional 10m.lead or part thereof over the initial lead	1 m3	65.00
77	Extra for every additional 1m.lift or part thereof over the initial lift	1 m3	2.00
78	Breaking clods,consolidating and sectioning	1 m3	2.00
78(a)	Breaking clods , consolidation & sectioning the earth scooped by bull dozers	1 m3	1.20
79 A	Add to relevant SS 20A Rates for new tank bunds or canal bunds or closing breaches for extra watering and consolidation by hand roller	1 m3	4.00
B	(b) by power roller including hire charges	1 m3	4.00
80	Benching old embankment slopes 0.45mX0.45m	1 RM	8.00
	NOTE: In the case of trimming,there need be only one item for all soils except hard rock		1.00
81	Puddle wall work	1 m3	38.00
82 A	Turfing in slopes including watering and fixing with initial lead upto 50m	1 M2	7.00
84	Refilling with excavated sand complying with standard specification for filling in foundation and basement	1 m3	7.00
85	Refilling with excavated soils(other than sand complying with the standard specification for filling foundation and basement	1 m3	8.00

Sl.No	Details	Per	Rate for the year 2001 - 2002
	EARTH WORK DEPLOYING MACHINERIES		Rs.
1	Earthwork in all soils except hard rock requiring blasting and conveying for formation of bund with a lead of 0 to 1KM. deploying earthmoving machinery and tippers including benching formation of bunds breaking clods, sectoning, etc. complete	1 cum.	50.00
2	Earthwork excavation deploying earthmoving machinery for desilting channel having a width of upto 10m and forming bund on either side and depositing the Earth on banks including jungle clearance, etc. complete	1 cum	20.00
3	Earthwork excavation deploying earthmoving machinery for desilting channel having a width of more than 10m and for forming bund on either sides and depositing the earth on banks including jungle clearance, etc. complete	1 cum	25.00

E:

ndard specification No 20A requires breaking clods, ramming, sectioning soils bank, etd.for which separate rate will not be paid.

ndard specification No:20B does not require for the three items of rk detailed above but does require neat banking in accordance with the ndard specification.

ouble the relevant rate for standard specification No:20B will apply to avat on for foundation of buildings, cut off walls, retaining walls, body walls, abutments, piers, wings and returns of bridges, culverts, sluices ,regulators,anicut weirs, causeways/ road, dams and of other cross masonry works, trenches for water supply and drainge works for laying pipe lines and sewers, contour trenches for water conservation works, pits for avenue trees,toe wall for revetments, septic tank and manhole catch water pits.(add 25% exra over the double the relevant rate for trenches,water supply and drainge works for laying pipes and sewers).

Where shoring and strutting are found necessary for the earthwork over and above what is contemplated in the T.N.D.S.S. for any of these items ,they will be paid for an square metre basis.

The rates for earthwork do not include bailing charges, the dewatering is tobe done departmentally. Ten percent of cost of excavation shall be allowed for dewatering for estimate purposes.The bailing charges are tobe paid as per actuals in case bailing is done departmentally or at actuals plus 10% extra in case bailing is done by other agencies. The rate for all earthwork items include hand dewatering

An extra 50% over the rates for ordinary excavation shall be allowed for excavation in all soils including hard rock for drains,channels,and canals with bottom width not exceeding 1.25m.and for a depth not exceeding 2m.from bottom of excavation. In case where depth of excavation exceeds 2m. This extra rate will be limited to 2m, from bottom of excavation (as per Chief Engineer (General)'s Circular Memorandum No: Wks:II(2)/40791/79/CP., 27th March 1979)

An extra of 25% over the rates for ordinary,excavation shall be allowed for excavation in all soils including hard rock for drains, channel and canals having bed width of 1.25m to 2m. This extra percentage is applicable only for depth upto 2m. The depth being measured from bottom of excavation.

Sl.No	DETAILS	PER	RATE FO THE YEA 2001 - 20
	OPEN WELL EXCAVATION		Rs.
86	Earth work open well excavation complying with relevant clause of T.N.D.S.S. "Well sinking" and with a lead upto 10m In sand silt or other loose soil, wet sand & silt and not under water light black cotton soil sandyloam and ordinary soil first depth of 2m.	1 m3	15.00
88	Earthwork open well excavation complying with relevant clauses of T.N.D.S.S. " Well sinking" and with a lead upto10m In hard stiff clay, stiff black cotton soil, hard red earth, shales murrams gravel,stoney earth mixed with small size boulders and hard gravelly soil first depth of 2m.	1 m3	22.00
89	Earthwork open well excavation complying with relevant clauses of T.N.D.S.S." Well sinking" and with a lead of 10m in soft disintegrated rock, laterite, soft rock or kunkar not requiring blasting first depth of 2m.	1 m3	35.00
90	Open well excavation complying with relevant clauses of T.N.D.S.S. " Well sinking" and with a lead upto 10m. In medium rock and dense medium rock not requiring blasting first depth of 2m.	1 m3	65.00.
90A	Open well excavation complying with relevant clauses of T.N.D.S.S. " Well sinking" and with a lead upto 10m. in medium rock and dense medium rock requiring blasting first depth of 2m.	1 m3	85.00
91	Open well excavation complying with relevant clauses of T.N.D.S.S. " Well sinking" and with a lead upto 10m.in hard granite measured in soild including blasting and stacking first depth of 2m.	1 m3	160.00
92A	Sinking wells in loose soils,silt light black cotton soil, sandy loam and ordinary soil under water including baling or pumping charges if necessary, etc. complete first depth of 2m.	1 m3	25.00
92B	Sinking well in sand including baling or pumping charges if necessary, etc. complete first depth of 2m..	1 m3	35.00
92C	Sinking well in hard stiff clay stiff black cotton soil hard red earth,shales, murrams,gravel,stoney earth and earth mixed with small size boulders and hard gravelly soil including baling or pumping charges if necessary, etc. complete first depth of 2m.	1 m3	50.00

NOTE:

1. Upto 2m. diametre of wells 10% excess will be allowed over the basic rates for Open Well Excavation.

2. The rates do not include baling charges.The dewatering is tobe done Departmentally.10%of cost of excavation shal be allowed for dewatering for estimate purposes. Actual or 10% whichever is less to be allowed fordewatering charges. For any expenditure above this percentage, prior approval of the Competent Authority should be obtained.

3. For Open Well Excavation, forrates upto 12m. depth the progression would be X, 2X, 3X, 4X, 5X, 6X and for rates beyond 12m. depth, the progression would be 8X,10X, 12X,14X,16X and so on.

Sl.No	DETAILS	RATE FOR THE YEAR 2001 - 2002 Rs.
	SINKING WELLS	
	1. For Sinking of Wells 20% excess will be allowed over the BasicRates for which wells of diametre 3m. and above.	
	2. For well sinking for rates upto 12m. depth the progression would be Y, 2Y, 3Y, 4Y, 6Y, 8Y and 10Y for rates beyond 12m. depth the progression would be 13Y, 16Y, 19Y and so on.	
	3. The rates for Sinking Wells will apply when sinking is under water at the initial depth itself. If water is met with at a lower depth the rate applicable for Open excavation shall be adopted upto the depth at which thewater is met with. Beyond that the rate, for the portion under water, shall be the rate for the previous stage under Open Well excavation plus 2Y.	
	4. Schematic working sheet for Open Well Excavation and Sinking of Wells for deriving the rates is givenbelow:	

Openwell	Progression	Depth	Progress	Sinking of wells
	X	2m	Y	
	2X	4m	2Y	
	3X	6m	4Y	
12 metres	4X	8m	6Y	12 metres
	5X	10m	8Y	
	6X	12m	10Y	
	.....	.....	.....	
	8X	14m	13Y	
	10X	16m	16Y	
	So on.		So on	

Sl.No	DETAILS	RATE FOR THE YEAR 2001 - 2002 Rs.
	VI. RATES - CONCRETE - BRICK (OR) STONE MASONRY ABOVE OR BELOW GROUND LEVEL.	
	STATEMENT : I.	
a	**Concrete , above ground level**	
1	Add to the above basic rate for works upto 4.5M height in ground floor (height to be reckoned from the floor level i.e plinth level in ground floor)	1 m3 25.00
2	Add for works in every upper floor over the rate of preceeding floor	1 m3 50.00
b	**Bricks or Stone Masonry above ground level**	
1	Add to the above Basic Rates for works upto 4.50m. height in ground floor (height to be reckoned from floor level i.e. plinth level in ground floor)	1 m3 17.00
2	Add for works in every upper floor over the rate of preceeding floor	1 m3 34.00
	STATEMENT II	
a	**Concrete , below Ground level**	
1	Add the basic rate for works above 1.50m depth and up to 4.50 m depth below ground level	1 m3 25.00
2	Add the basic rate for works between 4.50m depth and 9.00m depth below ground level	1 m3 50.00
3	Add Extra over item 2 for every additional 4.50 m depth beyond 9.00 m depth below ground level	1 m3 50.00
b.	**Bricks or Stone Masonry below Ground level**	
1	Add the basic rate for works above 1.50m depth and up to 4.50 m depth below ground level	1 m3 17.00
2	Add the basic rate for works between 4.50m depth and 9.00m depth below ground level	1 m3 34.00
3	Add Extra over item 2 for every additional 4.50 m depth beyond 9.00 m depth below ground level	1 m3 34.00

NOTE: 1. The rate Lime Concrete and Reinforced Cement Concrete, Brick, Stone masonry workedout based on theStandard Data as apply to foundation and basement only (Basic Rates).

2. The extra rates as allowed for the Building work are applicable to the Irrigation works also. These extra rates may be allowed for thestructurebeyond 1m. from the ground level.

3. The above extra rate are applicable for Buildings/Irrigation and Road works.

CE(GI.)'s Lr.No: CTO/A/13/387/89,21.12.90 and 8.10.91.

Sl.No	DETAILS	PER	RATE THE Y 2001 - Rs

NOTE: Contd.

4. Theextra rates as allowed for Building works are applicable to theirrigation works also. These extra rates may also be allowed for the structure beyond 1m. from ground level.

5. First Grade Stone includes hard granite, trap, etc., Second Grade Stone include Genies Lime, Stone, etc. The Class of Stone tobe used should always be defined in the Item description Tender Notice, Schedules, Contract Schedules, etc. For reinforced Cement Concrete work, only the hardest locally available stone will be used, if it has good bonding surface and is otherwise suitable proportion for concrete are defined in the relevant standard specification.

6. For Precast Brick Block ory packing in apron and revetment 2.69cum. of brick work only should be taken for 2.83 cum. of finished work.

7. 2.83cum. of Brick Masonry may be taken as 2.83 cum. of finished work in apron and revetment built in situ .

	CONCERETE VIBRATORS		
1	Where Vibrators are specified for consolidation in plain concrete, this rate per cum over and above the provision made in the standard data book for consolidation with Manual Labour may be allowed	1 m3	15.0
2	Where Vibrators are specified for consolidation in R.C.C.B141, this rate per cum over and above the provision made in the standard data book for consolidation with Manual Labour may be allowed	1 m3	20.0
	VII SCAFFOLDING CENTERING ETC.,		
156 A	Scaffolding Charges for plastering for repair works only 4m to 6m above ground level	1 m2	0.60
156 B	Scaffolding Charges for plastering for repair works only 6m to 10m above ground level	1 m2	0.80
156C	Scaffolding Charges for plastering for repair works only over 10m above ground level	1 m2	1.20
156D	Scaffolding charges for white or colour washing for repair works only, 4m to 6m above ground level	1 m2	0.50
156E	Scaffolding charges for white or colour washing for repair works only, 6m to 10m above ground level	1 m2	0.70
156F	Scaffolding charges for white or colour washing for repair works only, over 10m above ground level	1 m2	1.00
156G	Scaffolding Charges for painting for repair works only 4m to 6m above ground level	1 m2	0.30
156H	Scaffolding Charges for painting for repair works only 6m to 10m above ground level	1 m2	0.30
156I	Scaffolding charges for painting for repair works only, over 10m above ground level	1 m2	0.40
	VIII PLASTERING		
318	Clean removal of lime plaster from wall sand racking out joints 20mm. Deep or from terraced roofs racking out joints 12mm deep	1 m2	2.00
319	Clean removal of lime plaster from walls	1 m2	2.00
320	Clean removal of cement plaster from walls	1 m2	2.00
321	Clean removal cement plaster from walls and racking out joints 20mm. deep	1 m2	2.50

NOTE: 1. Same rates apply to Brick work, Stone Masonry work videStandard Specification and remarks in detailed data.

2. For plastering one brick thick walls on theuneven side, as well as random rubble face wall on the inner side and for plastering ceilings and introdos of aches and 10% extra over the plastering rate.

SL.No	DETAILS	PER	RATE FOR THE YEAR 2001 - 2002 Rs.
	IX. WHITE WASHING,COLOUR WASHING AND DISTEMPERING:		
	1. WHITE WASHING		
338	Through scraping of old plastered surface	1 m2	1.00
339	Washing of plastered surfaces with soap, soda and water (or with soda, lime, cumbly and water)	1 m2	1.20
NOTE:	For Cement washing one coat, two coats and three coats, same labour as for white washing one coat, two coats and three coats respectively may be adopted.		
	X. PAINTING , WOOD OILING , TARRING , WARNISHING BEE'S WAXING ETC.,		
357	Removing old paints from doors and windows by blow lamp and scraping including removal and refitting of shutters	1 m2	7.50
357A	Removing old paints from doors and windows by scraping and refitting of shutters	1 m2	3.00
357B	Removing old paints from doors, windows and wood work by manual labour	1 m2	2.00
357C	Removing oldpaint from structural steel by blow lamp or sand paper	1 m2	3.00
357(C)	Repolishing the old mosaic flooring and fine including polishing and Labour Charges for polishing machine but excluding cost of Electric Charges	1 m2	20.00
357D	Scraping and removing old paint from structural steel by manual labou	1 m2	2.00
357E	Removing old paints from iron surfaces with sand blasting	1 m2	4.00
	NOTE: 1. Local Rates for furniture required for various types of Doors and Windows are to be adopted.		
	2.The LabourRates for Doors,Windows &Ventilators are applicable for all varieties of wood used		
	3. Rates same as for double and single leaf glazed windows respectively without top lights.		
	XI. MISCELLANEOUS		
369 B	Supplying and Fillingup the empty cement gunny bags with sand, stitching them, conveying them to site and stacking as directed within a lead of 10 m (excluding the cost of bags, jute , thread,needles, sand, etc. Labour only)	1 Bag	3.00
	XII RIVER CONSERVANCY OF KORAMBU WORKS		
375 A	Brush wood bundles one metre girth and one metre long within an initial lead of 1.6 km	One bundle	1.00
375B	Extra for every additional lead of 1.6 KM (For items 375 A above)	One bundle	0.10
378 A	Driving casurina piles into bed including sacffolding etc, complete	1 RM	4.00
378B	Casurina walling pieces 40mm to 50mm dia metre including fixing with nails and tying with ropes	1 RM	3.30

Sl.No	DETAILS	PER	RATE FOR THE YEAR 2001 - 2002. Rs.
	CUTTING AND THREADING OF G.I. PIPES		
	Diameter of G.I. pipe		
	15mm.dia G.I. Pipe Cutting	Each	2.00
	Threading		3.00
	20mm.dia G.I. Pipe Cutting	Each	2.00
	Threading		3.00
	25mm.dia G.I. Pipe Cutting	Each	2.50
	Threading		6.00
	32mm.dia G.I. Pipe Cutting	Each	3.00
	Threading		8.00
	40mm.dia G.I. Pipe Cutting	Each	4.00
	Threading		9.00
	50mm.dia G.I. Pipe Cutting	Each	5.00
	Threading		10.00
	65mm.dia G.I. Pipe Cutting	Each	5.50
	Threading		12.00
	80mm.dia G.I. Pipe Cutting	Each	7.00
	Threading		15.00
	100mm.dia G.I. Pipe Cutting	Each	10.00
	Threading		20.00
	5. LABOUR WROUGHT AND PUT UP FOR DOORS, WINDOWS AND VENTILATORS		
1	Labour wrought and put up in position frames inclusive of fixing hold fasts for doors, windows and Ventilators etc.,	1cum	2850.00
2	Labour wrought and put up in position shutters for fully panelled doors (external or internal) moulded panels including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	320.00
3.	Labour wrought and put up in position shutters for fully panelled doors internal five plywood panels including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	270.00
4	Labour wrought and put up in position shutters for glazed and panelled doors including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	300.00
6	Labour wrought and put up in position shutters for framed and planked doors including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	250.00
7	Labour wrought and put up in position for ledged and braced and planked doors including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	170.00
8	Labour wrought and put up in position for glazed windows including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	250.00

Sl.No

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Sl.No	DETAILS	PER	RATE FOR THE YEAR 2001 - 2002.
			Rs.
11	Labour wrought and put up in position shutters for windows paneled including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	320.00
12	Labour wrought and put up in position shutters for windows ledged, braced and planked including labour charges for fixing furniture fitting complying with standard drawings and standard specifications.	1 Sq.m	170.00
13	Labour wrought and put up in position frames,shutters for ventilators glazed fixed double frames and with wire netting complete fixed in position in accordance with standard specifications and drawings.	1 Sq.m	270.00
14	Labour wrought and put up in position frames,shutters for swing ventilators glazed including labour charges for fixing furniture fitting fixed in position in accordance with standard specifications and drawings.	1 Sq.m	250.00
19	Labour charges for fixing doors and frames in positions etc., complete (finished work).	1 Sq.m	45.00
20	Labour charges for fixing windows and ventilators alongwith frame in positions .	1 Sq.m	60.00
21	Labour wrought and put up in position for flush shutters both single and double leaves.	1 Sq.m	45.00
	Double	1Sq.m	70.00
22	Labour wrought and put up in position fly proof wire-gauge shutters for doors, windows and ventilators.	1 Sq.m	160.00
23	Labour wrought and put up for providing teak wood weldmesh screen with frames 3" X 3" (0.075m X 0.075m).	1 Sq.m	225.00

NOTE: Local rates for furniture required for various types of doors and windows are tobe adopted.

The Labour Rates forDoors, Windows and Ventilators are applicable for all variety of wood used.

ITEMS SPECIAL TO HIGHWAYS DEPARTMENT.

Sl. No.	Details	Unit	Rate for the year 2001-2002
			Rs.
1	Stacking metal	1cum.	2.70
2	Stacking gravel	1cum.	2.60
3	Stacking sand	1cum.	2.60
4	Stacking soling stone	1cum.	2.70
5	Stacking rough stone	1cum.	2.70
6	Picking 5cm. to 10cm. old metalled surface and sectioning	1sqm.	1.80
7	Soling with 150mm. cube stones with 25 percent of 40mm. to 75mm. size rings & 20percent of gravel for blindage excluding cost of materials but including Labour Charges for filling up the rings and spreading gravel for blindage and consolidation with Power Roller(Labour Charges)	1sqm.	30.50
8	Picking laterite metal and spreading laterite metal including watering and consolidation with Power Roller rolling: (a) 7.5cm, thick (b) 10.0cm. thick	 1sqm. 1sqm,	 6.90 8.50
9	Surface dressing over WBM with precoated chips using 2.7cum. of chips for 100sqm. and 44 Kg. of bitumen per cubic metre of chips for premixing and 100Kg. of bitumen for tack coat for 100 sqm. excluding cost of materials but including hire charges for Tools and Plants and Labour Charges	1sqm.	13.50
10	Surface dressing over the existing blacktop surface with precoated chips using 2.5cum. of chips for 100sqm. and 44 Kg. of bitumen per cubic metre of chips for premixing and 50 Kg. of bitumen for tack coat for 100 sqm. exluding cost of materials but including hire charges for Tools and Plant and Labour Charges	1sqm.	11.40
11	(a) Picking the existing blacktop surface upto 2cm. thick (b) Picking the existing blacktop surface for 2cm. to 10cm. thick	1sqm. 1sqm.	1.20 12.00
12	(a) Spreading metal 5cm. thick with 2cm. thick gravel blindage including hand packing the surface to camber and consolidation with Power Roller rolling	1sqm.	7.40
	(b) Spreading metal 7.5cm. thick with 2.5cm. thick gravel blindage including hand packing the surface to camber and consolidation with Power Roller rolling to a compacted thickness	1sqm.	9.70
13	Spreading gravel, watering and consolidation with Power Roller rolling excluding cost of gravel but including hire charges for Tools and Plants and Labour Charges.	1cum.	8.40

Sl. No.	
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17	F
18	L c Ir
19	L c In

Sl. No	Details	Unit	Rate for the year 2001-2002 Rs.
14	Laying well gravel	1cum.	1.40
15	Laying U.S. Gravel	1cum.	1.40
16	Patch work for W.B M. (Labour Charges)	1cum.	32.00
17	Patchwork with bituminous premix materials (Labour Charges	1cum.	90.00
18	Lettering 5cm. to 10cm. size over now painted surface excluding cost of paint but including all other Labour Charges and Incidental Charges	Each Letter	1.90
19	Letter 10cm. to 15cm. size over now painted surface excluding cost of paint but including all other Labour Charges and Incidental Charges	Each Letter	2.30

11	An adhoc extra for interstate works	7.00	3.15	4.40	7.70	7.70	8.40	11.20	12.60	15.40	18.90	21.00	11.55

RATE FOR CONVEYANCE OF MATERIALS BY HEAD LOAD FOR THE YEAR 2001-2002.

Sl.NO	Details of Materials	Unit	Distance		
			Above 20m and upto 100m.	Add for every addition,100m or part there of	Add for lift of 1m.
			Rs.	Rs.	Rs.
1	Rough stone, Broken stone, Cut stone, Wood, R.C.C.Slab	1cum	25.00	10.00	2.00
	Sand Cement Block, Wooden Scantlings Planks	1cum	21.00	10.00	
2	Lime stone, Broken Laterite, Brick jelly, Lime Coke Earth, Sand, Gravel, Surki				
3	(a) Mangalore Tiles	1000 nos }			
	(b) Machine Pressed Tiles	2000 nos }	28.00	13.00	
	(c) Hydraulic Mosaic Tiles	1500 nos }			
	(d) Terrace Bricks, Flat Tiles, Pan Tiles	2500 nos }			
	(e) Brick I and IIclass standard size, stock Bricks, Flooring Square Bricks	1000 nos }			
	(f) Country Bricks	1300 nos }	26.00	13.00	3.00
4	Cement, A.C.Sheet, Bituman, Asphalt, Tar and Pitch	1 Tonne	42.00	17.00	3.30
5	Steel	1 Tonne			

Note: The rates indicated in the Table will be applicable only in inaccessible places in plain, ala in wherever the Bullock Carts cannot move.
(Vide Chief Engineer (General)'s Memorandum NO:CTO/A/38153/89, 3.2.1989).

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Conveyance Table

Rate for Transport of Materials by Road for the year 2001 - 2002 with effect from 01.08.2002.

Serial Number	Distance in Kilometre	Cement, Rice and wheat per Tonne	Terrace Bricks, Flat Tiles, Pan Tiles 1000 Nos	Lime, Coke, Wood 1 cum.	Lime stone, Broken Laterite, Brick Jelly Wood works 1cum.	Asbestos, Cement Products, Asphalt, Tar, Pitch, Bitumen per tonne	Steel, Iron works per Tonne	Rough stone, Broken stone, Sand, Gravel, Surki, Earth 1 cum.	Country Bricks 1000Nos.	Cut Stone, Cudappah Slab, Cement Concrete Slabs and RCCSlabs, Chisel dressedStones and Hammer Dressed Stones (One cubic metre)	Mangalore Tiles (1000 Nos.), Machine Pressed Tiles (2000 Nos.), Hydraulic Pressed Mosaic Tiles (1500 Nos.)	Bricks 1st and 2nd Class Standard Size, Chamber burnt Bricks, Stock Bricks, Flooring Square Bricks (1000 Nos.)	Bitumen bulk quantities (per tonne) Chief Engineer's Circular No: Wks. II(2)/45285/82, 22.2.1982
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Co-efficient	1.00	0.45	0.63.	1.10	1.10	1.20	1.60	1.80	2.20	2.70	3.00	1.65
2	Incidental charges	23.00	10.35	14.50	25.30 ~~23.50~~	25.30 ~~23.50~~	27.60	36.80	41.40	50.60	62.10	69.00 ~~68.00~~	~~97.00~~ ~~13.40~~ 97.95
3	ADD FOR EVERY EXTRA 1 KM. AND PART THEREOF:												
a	0 to 10 km	7.50	~~2.00~~ 3.40	4.70	8.25	8.25	9.00	12.00	13.50	16.50	20.25	22.50	12.50 ~~13.40~~
b	Above 10 upto 20 km	3.00	1.35	1.90	3.30	3.30	3.60	4.80	5.40	6.60	8.10	9.00	4.95
5	Above 20 upto 40 km	2.50	1.15	1.60	2.75	2.75	3.00	4.00	4.50	5.50	6.75	7.50	4.10
6	Above 40 upto 80 km	2.30	1.05	1.45	2.55	2.55	2.75	3.70	4.15	5.05	6.20	6.90	3.80
7	Above 80 km	2.00	0.90	1.25	2.20	2.20	2.40	3.20	3.60	4.40	5.40	6.00	3.30
9	Loading charges	35.00	7.50	7.50	19.50	35.00	35.00	13.50	18.00	15.50	18.00	18.00	30.50
10	Unloading charges	35.00	7.50	7.50	19.50	35.00	35.00	13.50	18.00	15.50	18.00	18.00	30.50
11	An adhoc extra for interstate works	7.00	3.15	4.40	7.70	7.70	8.40	11.20	12.60	15.40	18.90	21.00	11.55

...TERIALS BY HEAD LOAD FOR THE YEAR 2001-2002.

NOTE:

1. The above rates do not include Stacking Charges vide Chief Engineer(General)'s No: Wks. IV(2)/236/62-3, dated: 18th June 1962 vide Appendix:A.

2. For Conveyance of Materials in Cart Track, allow 20% extra over the above rates excluding Loading, Unloading and Incidental Charges.

3. For Sandy and Slushy Soil Track, add 50% extra over the above rates excluding, Loading, Unloading and Incidental Charges.

4. For Conveyance of Cement and Bitumen under Column: 3, 7 and 14 from Factory and Harbour to any Place add Rs. 40.00 per Tonne.

5. The quantity for the payment towards Conveyance of Earth in Column:9 is to be pil measured quantity at the site of excavation conveyed and deposited as may be required.

6. For Stacking Charges for Cement packed in Bags, a rate of Rs. 16.00 per Tonne may be allowed.

7. In the case of Unloading Cement and Steel for Works during add hours (i.e. from 10 p.m. to 6 a.m., 10% extra over the existing rates for Unloading Charges may be allowed. Such extra payment should be watched through Certificate (nothing there in the exact hours of Unloading) furnished by the Assistant Engineer/ Junior Engineer where the Unloading point is not situated in the Headquarters of the Assistant Executive Engineer. In case where the Unloading points located within the Headquarters of the Assistant Executive Engineer, the above Certificates to be furnished only by the Assistant Executive Engineer concerned. This extra rates should not be taken into account while preparing the Estimate for any works.

8. For Inter District Conveyance of Materials, the Schedule of Rates pertaining to the District where the Materials are to be loaded will be adopted for Loading and Conveyance for Unloading charges the Schedule of Rates of the District where the materials are to be unloaded will be adopted.

9. For Conveyance of blasted rock through Lorries, the rates provided are for the volume with voids.

SUPERINTENDING ENGINEER, P.W.D.,
WRO., V.B.CIRCLE, CUDDALORE : 1.

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DETAILS OF QUARRIES.

Sl.No.Noted in the Map and Name of quarry	Village No.	Materials available
GINGEE TALUK:		
1. Sankaraparani River		Sand
2. Thondiar River		Sand
3. Varahanathi River		Sand
4. Semmadu	64	Country Bricks
5. Ponpathi	157	Country Bricks
6. Melmalayanur	40	Country Bricks
7. Mattaparai	133	Cut stone
8. Gingee	159	Rough stone,Broken stone
9. Kalavay(Mel)	189	Lime,Rough stone brokenstone
10.Alampoondi	85	Lime
TINDIVANAM TALUK:		
11.Manur	118	Country Bricks
12.Tindivanam	121	Country Bricks ,Lime
13.Roshanai	123	Country Bricks
14.Kandadu	201	Country Bricks
15.Markanam	202	Lime ,Country Bricks
16.Acharampathu	253	Country Bricks
17.Triruchitrampalam	302	Country Bricks
18.Perumukkal	109	Cut stone,Rough stone Broken stone
19.Kiledayalam	76	Cut stone,Rough stone Broken stone
20.Konarikuppam	Deleted	
21.Kalpakkam	18	Cutstone,Rough stone Broken stone
22.Naduthondi	7	Cutstone,Rough stone Broken stone
23.Manampoodi	12	Cutstone,Rough stone Broken stone
24.Buderi	166	Cutstone,Rough stone Broken stone
25.Melmavilangal	20	Rough stone,Broken stone
26.Sunalur	168	Rough stone,Broken stone
27.Thiruvakkarai	292	Rough stone,Broken stone
28.Iyenthoppu H.O. Roshanai	123	Broken stone
29.Deevanur	15	Broken stone
30.Erayur	268	Broken stone
31.Atchipakkam	163	Broken stone
32.Kollar	40	Lime
33.Varahanadhi River		Sand
34.Ongur River		Sand
35.Kondamur River		Sand
36.Rettanai River		Sand
37.Kattrambakkam River		Sand

Sl.No.Noted in the Map and	Name of quarry	Village No.	Materials available
VILLUPURAM TALUK:			
38.	Maharajapuram	152	Country Bricks
39.	Siruvalai	15	Cut stone,Rough stone Broken stone, Laterine stone.
40.	Arasalapuram	30	Rough stone,Broken stone
41.	Siruvakkur	57	Rough stone
42.	Villupuram	109	Lime
43.	Mambalapattu	55	Lime
44.	Vikravandi River		Sand
45.	Pambal River		Sand
46.	Ponniar River		Sand
47.	Malattar River		Sand
48.	Naraiyar odal		Sand
ULUNDURPET TALUK:			
49.	Elavanasurkottal H/o Pidagam	138	Cut stone,Rough stone Broken stone
50.	Sirupakkam	194	Rough stone,Broken stone
51.	Edikkal	147	Broken stone
52.	Padur	247	Laterite
53.	Gadilam River		Sand
54.	Seshanadhi		Sand
TIRUKOILUR TALUK:			
55.	Tiuvennainallur	273	Country Bricks
56.	Tirukoilur	100	Country Bricks
57.	Manampoondi	102	Country Bricks
58.	Andhili	117	Cut stone, Broken stone
59.	Paranur	209	Rough stone,Broken stone
60.	Cholavandipuram	16	Rough stone,Broken stone
61.	Vilandal	45	Rough stone,Broken stone
62.	Arumbakkam	97	Lime
63.	Salloam H/0.Tirukoilur	100	Lime
64.	Gadilam River		Sand
65.	Malattar River		Sand
66.	Ponniar River		Sand
KALLAKURICHI TALUK:			
67.	Mamanandal	161	Country Bricks
68.	Thiagadurgam	138	Rough stone Broken stone Laterite stone
69.	Ravuthanallur	23	Rough stone Broken stone Laterite stone
70.	Kottalam	252	Rough stone Broken stone Laterite stone
71.	Gomuki River		Sand
72.	Manimuktha River		Sand
73.	Mayuranadhi		Sand

Sl.No.Noted in the Map and	Name of quarry	Village No	Materials available
	VRIDHACHALAM TALUK:		
74.	Chittalur H/O. Vridhachalam	220.	Country Bricks
75.	Kaludur	53	Cut stone
76.	Katturnylore	45	Laterite stone
77.	Gomuki River		sand
78.	Manimuktha River		sand
79.	Vellar River		sand
	PANRUTI TALUK:		
80.	Panruti	77	Lime
81.	Anguchettipalayam.	31	Lime Country Bricks.
82.	Vandarayapuram.	2	Laterite stone
83.	Gadilam River		sand
84.	Ponniar River		sand
	CUDDALORE TALUK:		
85.	Sammandalam	192	Country Bricks
86.	Karaikadu	217	Laterite stone
87.	Thiruvandhipuram	207	Laterite stone
88.	Naduveerapattu	131	Laterite stone
89.	Ramapuram	115	Laterite stone
90.	Vadalur H/O. Parvathipuram.	55	Laterite stone
91.	Alagappa samudram	102	Laterite stone
92.	Vilangalpattu	199	Laterite stone
93.	Kundramallur	117	Lime
94.	Cuddalora O.T.	215	Lime
95.	Gadilam River		sand
96.	Ponniar River		sand
	CHIDAMBARAM TALUK:		
97.	Kallipadi	334	Country Bricks.
98.	Vallampadugai	109	Country Bricks
99.	Sethiathope	14	Country Bricks
100.	Mudikandanallur	310	Country Bricks
101.	Malayarayanallur	309	Country Bricks
102.	Adhiverahanallur	329	Country Bricks
103.	Adhivarahanatham	37	Country Bricks.
104.	Srimushnam	332	Laterite stone
105.	Palayankottai	319	Laterite stone
106.	Keerapalayam	139	Lime
107.	Vellar River		Sand
108.	Coleroon River		Sand

NOTE: For Quarry Map, please refer to the Quarry Map attached with the Standard Schedule of Rates of South Arcot District for the year 1985-86.

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