

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD



STANDARD SCHEDULE OF RATES FOR THE YEAR 2022-23

I. GENERAL NOTES

GENERAL NOTES

1. For items not covered in the schedule of rates, the Superintending Engineer can fix the rates based on the lowest sealed quotations duly observing all the departmental formalities under intimation to the concerned Chief Engineer and Head Office.
2. For special nature of works, for which rates are not covered in the Schedule of Rates separate schedule of rates issued by the respective Officers / Department / Board are to be followed.
3. Extra percentage other than those for the specified areas noted below, shall not be allowed.
4. The labour rates are applicable for construction activities only and not for operation and maintenance of schemes.
5. The labour rates for operation and maintenance of schemes shall be worked out as per the minimum wages specified in the G.O issued by the Labour and Employment Department and as amended from time to time.
6. For the items not available in TWAD Schedule of rates but available in PWD Schedule of rates, PWD rates may be adopted.

1. Corporation Limits.

An extra 10% on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in Erstwhile Chennai Corporation limit and the belt area of 32 km around erstwhile Chennai Corporation limits (i.e) prior to formation of Greater Chennai Corporation, Madurai Corporation limits, Coimbatore Corporation limits and also for works in Hosur Taluk.

2. An extra 5% on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits.

3. Restricted areas:

- I. An extra 10% on the Rates of Labour and Rates of Works shall be allowed for sewer works under unhygienic condition.
- II. An extra 10% on the Rates of Labour, Rates of Works and Conveyance charges shall be allowed for works in the campus of Central Jails.

- III. **An extra 5%** on the Rates of Labour, Rates of Works and Conveyance charges shall be allowed for works in the campus of **Sub-Jails**.
- IV. **An extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for works in **Reserve Forest Areas**

4. Special Nature of Works

- I.
 - i. Deleted(Earthwork foot note C)
 - ii. 5 times over the basic rates for earthwork excavation **for leak rectification works** is allowed.
 - iii. If the works are done **(leak rectification works) in odd hours (i.e) 8.00PM to 8.00AM of the next day**, 7.50 times over the basic rate is allowed.
- II. For **individual footings of the service reservoirs, valve pits, Manholes in UGSS** double the relevant rate for earthwork excavation is allowed.
- III. An extra 5% is allowed for laying of **sewers under UGSS** for earthwork excavation alone below 4m depth.

5. For Works in Hills:

As the transport facilities in most of the Hilly Areas are now considerably improved and as there is no necessity for allowing extra percentage as hitherto followed, the Hilly Areas are now again regrouped as detailed hereunder and the extra percentage allowable has been revised accordingly and fixed.

The conveyance table approved and furnished in the Schedule of Rates under the Head "**Conveyance table**", **Conveyance of materials by Road on hills** shall be adopted for all works in hills.

- i. For works in **Nilgiris District an extra 40% on the** rates of labour, rates of works, head load and **an extra 25 %** on the rates of materials shall be allowed.
- ii. For works in **Mudumalai Sanctuary, Shandy Nallah Sheep Farm, Dansandle areas, an extra 40%** over rates of labour, rates of works and head load and **an extra 25%** on the rates of materials shall be allowed.

- iii. For works in **Valparai Area an extra 40% on the** rates of labour, rates of works, head load and **an extra 25%** on the rates of materials shall be allowed.
- iv. For works in **Gudiyalathur, Siruvani, Thavalamalai Hills, Talavadi Hills, Bargur Hills, Anamalai, Chennimalai and Sivanmalai Hills an extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.
- v. **For works in Western Ghats** of Madurai, Virudhunagar, Coimbatore, Tirunelveli & Kanyakumari Districts **an extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.
- vi. **(a) An Extra 50%** on the Rates of Labour for works in Thekkady shall be allowed.
(b) Add 25% extra shall be allowable on the Rates of Materials which are to be supplied at Thekkady, subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc. The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per schedule of rates is only applicable.
- vii. **An extra 60%** shall be allowable on the Rates of Materials to be supplied for Periyar Dam Site subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc. The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per Schedule of Rates is only applicable.
- viii. **An extra 100%** on the Rates of Labour for works in Periyar Dam Site under normal condition shall be allowed.
- ix. **An extra 150%** on the Rates of Labour for works in Periyar Dam Site under hanging condition shall be allowed.
- x. **An extra 50%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed for the works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbam mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Thiruparankundram Hills, Idumban Hills, Megamalai Panchayat and Thummakundu Panchayat.
- xi. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the rates of materials shall be allowed for the works at Kodaikanal.
- xii. **An extra 25%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed for works in Yercaud, Yercaud Sub-Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Thiruchengode Hills in Salem & Namakkal District.

- xiii. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills, Pachamalai Hills and Kolli Hills in Salem & Namakkal Districts.
- xiv. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickerner Hills in Thiruvannamalai and Vellore Districts.
- xv. **An extra 40%** on the Rates of Labour, Rates of works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Piranmalai covering Oduvarpatti, Kattugudipatti, Ponnadaipattu, V.Pudur Village, Mamalai covering Vannar Irruppu, Nagamangalam Villages, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatti and Thuthampatti in Sivagangai District.
- xvi. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Chitteri Hills, Sittiling in Kalrayan Hills in Dharmapuri District.
- xvii. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills in Cuddalore and Villupuram Districts.
- xviii. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Pachamalai Hills in Trichy, Karur and Perambalur Districts.

6. ISLANDS in Ramanathapuram District:

a. For works in Rameswaram Island:

An extra 25% on the Rates of Labour, Rates of Works and Head Load shall be allowed.

b. For works in Other Islands:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for other Islands in Ramanathapuram viz., (1) Upputhannie Island, (2) Puleevilaichalli Island, (3) Aalaippar Island, (4) Valimunai Island, (5) Appa Island, (6) Thalaiyari Island, (7) Valai Island, (8) Mullai Island, (9) Manoli Island (10) Minoliputti Island, (11) Nadu Island, (12) Nallathannie Island, (13) Pullivasal Island,

14) Poomarichan Island, 15) Muyal Island, (16) Singala Island and (17) Kurusedar Island.

c. For works in Islands of Thoothukudi District:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for Van, Kasuvar, Karaichalli Island and Vilankuchali Islands.

7. TUNNELS:

An extra 15% on the Rates of Labour and Rates of Works shall be allowed for works inside Tunnels.

8. DAM SITES UNDER HANGING CONDITION (Other than Periyar Dam Site)

An extra 75% on the Rates of Labour employed for the items of works, which may have to be executed by hanging from the top of Dam through slings (or) rope ladders to work in dizzy height. (This will apply only for maintenance and repair works)

9. General Foot Note:

- i) The rates of labour means the labour rates fixed under the head, **Rates of Labour**.
- ii) The extra percentages provided are only applicable on the basic rates (excluding any other percentage increase given for specified reasons).
- iii) **Rates of works** includes the labour for earthwork, refilling foundation, dismantling, jungle clearance, head load etc., also where human labour alone is involved.
- iv) The percentage increase provided for the materials are applicable **only for the materials which are quarried or manufactured locally in the specified area**.
- v) The percentage increase provided for **Rates of Works** are allowable only on the items where human labour alone is involved.
- vi) The percentage increase provided for **Conveyance Charges** are allowable for the distance covered in the specified area / Special Tract only.
- vii) The rate for conveyance of bitumen shall be as per the rates concluded by the oil companies.

- Viii) The extra percentage allowable as specified above shall not be applicable for the materials / works covered under "Rates of other construction materials" and "Rates of Electrical items of works". Similarly, no conveyance charges shall be allowed for the items covered under these two categories. The rates approved therein are applicable at site of work.
- viii) While adopting source of any materials inside the special tracts viz., Corporation limits, Reserve Forest Areas, Hilly areas, Islands, Dam Sites etc., where extra percentage allowable for the materials which are quarried or manufactured locally, it is the duty of the officer in charge of the work (not below the rank of Assistant Executive Engineer), to analyse and confirm whether the finished cost of such materials/ works are higher if the materials are conveyed and brought to the site from the areas outside the specified area, where such extra percentage are not permissible.
- ix) The basic rates of labour and materials provided are exclusive of GST

10. LEAD

- I. District-wise average lead may be approved by the concerned Chief Engineers based on the approved quarry by the PWD for CWSS.
- II. Lead for respective local body such as Town panchayats, Municipalities and Corporation may be adopted separately for the stand alone water supply schemes/ UGSS and approved by the Executive Engineers concerned.

**STATEMENT SHOWING THE EXTRA PERCENTAGE ALLOWABLE AS PER GENERAL
NOTE TO REVISED SCHEDULE OF RATES FOR THE YEAR 2022-23**

Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
1	For works in Erstwhile Chennai Corporation limits and the belt area of 32 KM around erstwhile Chennai Corporation limits (i,e) prior to formation of Greater Chennai Corporation, Madurai Corporation limits, Coimbatore Corporation limits and also for works in Hosur Taluk.	10%	--	10%	--	10%
2.	For works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits.	5%	--	5%	-	5%
3.	Restricted Areas					
i	For Sewer works under unhygienic condition	10%	--	10%	--	--
ii	For works in Central jail Campus	10%	--	10%	10%	--
iii	For works in Sub - Jail Campus	5%	--	5%	5%	--
iv	For works in Reserve Forest Areas	20%	20%	20%	20%	20%
4	Hills					
i	For works in Nilgiris District	40%	25%	40%	--	40%
ii	For works at Mudumalai Sanctuary, Shandy Nalla Sheep Form, Dansandle Area	40%	25%	40%	--	40%
iii	For works at Valparai	40%	25%	40%	--	40%
iv	For works at Gudiyalathur, Siruvani, Thavalamalai Hills, Thalavadi Hills, Bargur Hills, Anamalai, Chennai Malai and Sivanmalai Hills	20%	20%	20%	--	20%

Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
v	For works in Western Ghats of Madurai, Virudhunagar, Coimbatore, Tirunelveli and Kanyakumari Districts.	20%	20%	20%	--	20%
	In Madurai, Theni & Dindigul Districts.					
vi	For works at Thekkady	50%	25%	--	--	--
vii	For works at Periyar Dam Site	--	60%	--	--	--
viii	For works at Periyar Dam Site under normal condition	100%	--	--	--	--
ix	For works at Periyar Dam Site under hanging condition	150%	--	--	--	--
x	For works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbum Mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Tiruparankundram Hills, Irdumban Hills, Megamalai Panchayat and Thummakundu Panchayat	50%	50%	50%	--	50%
xi	For works at Kodaikanal	40%	25%	40%	--	40%
xii	For works at Yercaud Hills, Yercaud Sub - Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Tiruchengodu Hills in Salem & Namakkal Districts.	25%	25%	25%	--	25%
xiii	For works at Kalrayan Hills, Pachamalai Hills, Kolli Hills in Salem and Namakkal Districts.	40%	25%	40%	--	40%
xiv	For works at Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickenneri Hills in Thiruvannamalai and Vellore Districts.	40%	25%	40%	--	40%
xv	For works at Piranmalai covering Oduvarpatti, Kattugudipatti, Pannadaipattu, V.Pudur Villages, Mamalai covering Vannar Iruppu, Nagamangalam Villages,	40%	25%	40%	--	40%

Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
	Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatty and Thuthampatti in Sivagangai District.					
xvi	For works at Chitheri Hills, Sittiling in Kalrayan Hills in Dharmapuri District.	40%	25%	40%	--	40%
xvii	For works at Kalrayan Hills in Cuddalore and Villupuram Districts.	40%	25%	40%	-	40%
xviii	For works at Pachamalai Hills in Trichy, Karur and Perambalur Districts.	40%	25%	40%	--	40%
5	ISLANDS					
I	For works at Rameswaram Island in Ramanathapuram District.	25%	-	25%	-	25%
ii	For works in other Islands viz., Upputhannie, Puleevilaichalli, Alaiappar, Valimunai, Appa, Thalaiyari, Valai, Mullai, Manoli, Minidiputti, Nadu, Nallathannie, Pullivasal, Poomarichan, Muyal, Singala, Kuruseedar Islands in Ramanathapuram District.	125%	125%	125%	125%	125%
iii	For works in Van, Kasuvar, Karaichalli and Vilankurichi Islands in Thoothukudi District.	125%	125%	125%	125%	125%
6	TUNNELS					
i	Where human labour alone is involved	15%	-	15%	-	-

7	DAM SITES UNDER HANGING CONDITION					
i.	For works at dam sites other than Periyar Dam Site, which may be executed by hanging from top of dam through slings or rope ladders to work in dizzy height.	75%	-	-	-	-

II. RATES FOR LABOUR

TWAD BOARD
RATES FOR LABOUR
(for Construction activities only)

Schedule Item No.	Description	Unit	Rate for 2022-23 in Rupees
HIGHLY SKILLED CATEGORY			
1	Technical Assistant Gr.I (BE passed)	Day	1153.00
2	Technical Assistant- Gr.II (Diploma in Engg. Passed/ B.E. failed/ Degree in Geology for ground water works)	Day	1039.00
3	Technical Assistant Gr.III (Diploma in Engg. Failed / ITI (Civil) passed)	Day	878.00
4	Laboratory Assistant. Gr.I (Post Graduate in Science)	Day	878.00
5	Laboratory Assistant. Gr.II (Degree in Science/ Degree in Geology for ground water)	Day	805.00
6	Laboratory Assistant Grade III (with Degree qualification to work as works clerk)	Day	724.00
7	B.Sc., (Agriculture) Passed- Technical Assistant	Day	1039.00
8	Computer OperatorGr.I [B.E. (Computer Science)/ M.Sc., (Computer Science)]	Day	1153.00
9	Computer OperatorGr.II [B.Sc., (Computer Science)/Diploma in Computer Science]	Day	1039.00
10	Wireman Grade I/ Electrician Grade I	Day	783.00
11	Irrigation Community Organiser Grade I [B.E(Agri) passed/B.Sc.,(Agri)Passed/PG (Geology) & Rural Development]	Day	1112.00
12	Irrigation Community Organiser Grade II [B.E(Agri) failed / B.Sc.,(Agri)failed /Diploma in Agri. Passed)]	Day	926.00
SKILLED CATEGORY			
13	Blacksmith - 1st Class	Day	729.00
14	Carpenter I Class	Day	926.00
15	Cleaner I Gr.	Day	492.00
16	Fitter I Class	Day	836.00
17	Fitter (Pipe laying / Bar bending) I Class	Day	821.00
18	Floor Polisher	Day	729.00
19	Hammer Mazdoor	Day	586.00
20	Driver (Light duty)	Day	729.00
21	Driver (Heavy duty)	Day	778.00
22	Maistry, Road Inspector & Work Inspector	Day	702.00
23	Maistry, Road Inspector & Work Inspector (Degree holder)	Day	1336.00
24	Mason for Brick Work - I Class	Day	947.00

RATES FOR LABOUR
(for Construction activities only)

Schedule Item No.	Description	Unit	Rate for 2022-23 in Rupees
25	Mason for Stone Work - I Class	Day	947.00
26	Mechanic - 1st Class	Day	729.00
27	Painter/Varnisher-I Class	Day	756.00
28	Pile Driver	Day	672.00
29	Plumber I Class	Day	821.00
30	Sawyer	Day	672.00
31	Smith 1st Class	Day	727.00
32	Stone cutter- I Class	Day	727.00
33	Syrang-1st Class	Day	727.00
34	Tinker 1 st Class	Day	586.00
35	Turner 1 st Class	Day	672.00
36	Time Keeper Ist Class	Day	727.00
37	Welder/ Bracer - I Class	Day	727.00
38	Wodder	Day	611.00
39	Compressor Operator	Day	642.00
40	Geological Assistant	Day	898.00
41	Stone & Crusher Operator	Day	642.00
42	Wireman Grade II/ Electrician Grade II	Day	778.00
43	Lift Operator	Day	702.00
44	Laboratory Attendant	Day	523.00
45	Sound Service Operator	Day	586.00
46	Electrical Maistry	Day	898.00
47	Boat Mazdoor	Day	611.00
48	Head Mazdoor for Well sinking	Day	611.00
49	Moplah - I Class	Day	727.00
50	Navagonies or Javali Man - 1st Class	Day	611.00
51	Well Diver for removing silt - 1 st Class	Day	727.00
52	Well sinker - 1st Class	Day	821.00
53	Well sinking Diver working with Helmet (above two metres depth of water)	Day	848.00
	SEMI SKILLED CATEGORY		
54	Axe Mazdoor	Day	577.00
55	Blacksmith - 2nd Class	Day	700.00
56	Bullocks pair with driver (with bandy)	Day	1142.00
57	Bullocks single with driver (with bandy)	Day	821.00
58	Carpenter II Class	Day	884.00
59	Cleaner II Gr.	Day	487.00
60	Fitter II Class	Day	812.00
61	Fitter (Pipe laying / Bar bending) II Class	Day	796.00
62	Gardener	Day	577.00
63	Jumper Mazdoor	Day	577.00

RATES FOR LABOUR
(for Construction activities only)

Schedule Item No.	Description	Unit	Rate for 2022-23 in Rupees
64	Mason for Brick Work - II Class	Day	884.00
65	Mason for Stone Work - II Class	Day	884.00
66	Mazdoor Category I	Day	618.00
67	Head Mazdoor	Day	639.00
68	Mechanic - 2nd Class	Day	700.00
69	Painter/Varnisher-II Class	Day	732.00
70	Plumber II Class	Day	796.00
71	Pump Driver	Day	639.00
72	Smith 2nd Class	Day	700.00
73	Stone cutter- II Class	Day	700.00
74	Syrang-2 nd Class	Day	700.00
75	Thatcher	Day	611.00
76	Tinker 2 nd Class	Day	577.00
77	Turner 2 nd Class	Day	639.00
78	Time Keeper 2nd Class	Day	700.00
79	b. Welder/ Bracer - II Class	Day	700.00
80	Mazdoor employed for Geological mapping	Day	618.00
81	Mazdoor employed for Pitting, Trenching, Sampling and Drilling works	Day	618.00
82	Mazdoor employed for Geophysical Investigation works	Day	618.00
83	Head Mazdoor to supervise exploratory works	Day	653.00
84	Mixer Operator (including concrete mixer)	Day	672.00
85	Mixer Driver	Day	639.00
86	Heavy Mazdoor	Day	672.00
87	Electrical Helper	Day	611.00
88	Ferry Mazdoor	Day	639.00
89	Moplah - II Class	Day	700.00
90	Well Diver for removing silt - 2nd Class	Day	700.00
91	Well sinker - 2nd Class	Day	796.00
	UN- SKILLED CATEGORY		
92	Mazdoor Category II	Day	507.00

Note: The labour rates are not applicable for operation and maintenance of schemes.

III(A) RATES FOR MATERIALS

**1.0 UN PLASTICIZED PVC PIPES FOR POTABLE WATER SUPPLY AS PER
IS 4985 /2000**

Sl. No	Description	Unit	Rate for 2022-23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
I	4KSC					
1	63mm	Metre		71.30		
2	75mm	Metre		98.60		
3	90mm	Metre		136.30		
4	110mm	Metre		195.10		
5	140mm	Metre		323.10		
6	160mm	Metre		419.60		
7	180mm	Metre		541.30		
8	200mm	Metre		651.50		
II	6KSC					
1	50mm	Metre		62.90		
2	63mm	Metre		99.50		
3	75mm	Metre		138.40		
4	90mm	Metre		195.00		
5	110mm	Metre		274.80		
6	140mm	Metre		470.00		
7	160mm	Metre		594.80		
8	180mm	Metre		769.00		
9	200mm	Metre		953.70		
III	10KSC					
1	50mm	Metre		98.62		
2	63mm	Metre		151.00		
3	75mm	Metre		211.90		
4	90mm	Metre		305.30		
5	110mm	Metre		458.50		
6	140mm	Metre		745.90		
7	160mm	Metre		947.40		
8	180mm	Metre		1216.00		
9	200mm	Metre		1498.20		

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
3) GST extra applicable as per GO

1.1 PVC CASING PIPE AS PER IS 12818 / 2010

Sl.No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
1	150mm CS	Metre		644.50		
2	150mm CM	Metre		841.50		
3	150mm RS	Metre		1004.50		
4	200mm CS	Metre		1113.20		
5	200mm CM	Metre		1308.30		
6	200mm RS	Metre		1753.00		

Note : 1) The above rates are basic rates inclusive of transportation charges to site anywhere in Tamilnadu.

2) GST extra applicable as per GO

CS - Casing Shallow depth up to 80m
CM - Casing Medium depth 81m to 250m
RS - Ribbed screen pipe

1.2 UN PLASTICIZED NON - PRESSURE POLYVINYL CHLORIDE (PVC- U) PIPES FOR USE IN UNDERGROUND DRAINAGE AND SEWERAGE SYSTEMS as per IS 15328/2003

SI No.	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
I	SN8-SDR 34(S 16.5)					
1	110mm	Per Metre		288.00		
2	125mm	Per Metre		376.50		
3	160mm	Per Metre		604.50		
4	200mm	Per Metre		942.50		
5	250mm	Per Metre		1461.50		
6	315mm	Per Metre		2342.50		
II	SN4-SDR 41(S 20)					
1	125mm	Per Metre		322.00		
2	160mm	Per Metre		496.00		
3	200mm	Per Metre		781.50		
4	250mm	Per Metre		1225.00		
5	315mm	Per Metre		1905.00		
III	SN2-SDR 51(S 25)					
1	160mm	Per Metre		417.50		
2	200mm	Per Metre		642.50		
3	250mm	Per Metre		994.50		
4	315mm	Per Metre		1593.50		

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
3) GST extra applicable as per GO.

1.3 UPVC - Column pipe

Sl No.	Description	Unit	Rate for 2022 -23 in Rupees
1	25mm	Per Metre	80.70
2	32mm	Per Metre	130.10
3	40mm	Per Metre	174.10
4	50mm	Per Metre	283.20
5	65mm	Per Metre	364.00
6	80mm	Per Metre	502.50
7	100mm	Per Metre	754.30

- Note: 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

1.4 PVC SPECIALS AS PER IS 7834/1987

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
	PVC THREADED COUPLER		
1	63 mm x 50 mm	Each	46.60
2	75 mm x 50 mm	Each	70.90
3	90 mm x 80 mm	Each	90.10
4	110 mm x 100 mm	Each	161.00
5	140 mm x 125 mm	Each	224.90
	UNEQUAL TEE		
1	63 mm x 50 mm	Each	35.40
2	75 mm X 50 mm	Each	42.50
3	90 mm x 50 mm	Each	102.30
4	90 mm x 63 mm	Each	95.20
5	90 mm x 75 mm	Each	101.30
6	110 mm x 50 mm	Each	89.10
7	110mm x 63 mm	Each	90.10
8	110 mm x 90mm	Each	180.30
9	140mm x 50 mm	Each	364.70
10	140 mm x 63 mm	Each	329.20
11	140 mm x 90 mm	Each	342.40
12	140 mm x 110 mm	Each	290.70
13	160 mm x 50 mm	Each	465.00
14	160 mm x 63 mm	Each	465.00
15	160 mm x 90 mm	Each	239.10
16	160 mm x 110mm	Each	274.50
17	160 mm x140 mm	Each	560.10
	PVC REDUCER COUPLER		
1	63 mm x 50 mm	Each	16.20
2	75 mm x 63 mm	Each	13.10
3	90 mm x 63 mm	Each	26.30
4	90 mm x 75 mm	Each	21.20
5	110 mm x 63 mm	Each	38.50
6	110 mm x 75 mm	Each	43.50
7	110 mm x 90 mm	Each	33.40
8	140 mm x 63 mm	Each	118.50
9	140 mm x 90 mm	Each	84.00
10	140 mm x 110 mm	Each	52.60
11	160 mm x 110 mm	Each	118.50
12	160 mm x 140 mm	Each	97.20

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
	PVC REDUCER MULTI STAGE		
1	90 mm x 63 mm	Each	26.30
2	110 mm x 63 mm	Each	38.50
3	110 mm x 75 mm	Each	43.50
4	110 mm x 90 mm	Each	44.50
5	140 mm x 90 mm	Each	141.10
	PVC REDUCER FABRICATED		
1	75 mm x 63 mm	Each	13.10
2	90 mm x 75 mm	Each	21.20
3	110 mm x 90 mm	Each	33.40
4	140 mm x 110 mm	Each	52.60
5	160 mm x 140 mm	Each	97.20
	SADDLE PIECE		
1	63 mm x 20 mm	Each	55.70
2	75 mm x 20 mm	Each	64.80
3	90 mm x 20 mm	Each	74.90
4	110 mm x 20 mm	Each	87.10
5	140 mm x 20 mm	Each	108.40
6	160 mm x 20 mm	Each	123.60

- Note: 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

1.5 PVC SPECIALS AS PER IS 10124/1982 Part-II cont..

Sl. No.	Description	Rate for 2022-23 in Rupees											
		20mm	25mm	32mm	40mm	50mm	63mm	75mm	90mm	110mm	140mm	160mm	200mm
1	PVC Couplers fabricated 4 KSC	-	-	-	-	-	9.10	13.10	21.20	33.40	60.70	94.20	199.60
2	PVC Couplers fabricated 6 KSC	-	-	-	-	7	14.10	21.2	33.4	50.6	88.1	140.8	290.7
3	PVC Bends fabricated 4 KSC	-	-	-	-	-	26.3	43.5	65.8	112.4	277.6	379.9	731.5
4	PVC Bends fabricated 6 KSC	-	-	-	-	21.2	40.5	67.8	103.3	175.2	402.2	560.2	1085.1
5	PVC Equal Tee Fabricated 4 KSC	-	-	-	-	-	25	38.3	59.5	94.5	171.6	268.40	491.40
6	PVC Equal Tee Fabricated BIS 10124/1982 PartV 6 KSC	-	-	-	-	19.2	39	59.6	92.7	148	248.8	395.90	623.10
7	PVC Couplers (Mould) BIS 7834/1975 Part VI	3	3	5	5	10.10	22.20	34.40	50.60	78.00	168.10	216.80	306.30
8	PVC Elbow (Mould) BIS 7834/1975 Part VI	3	5	10.10	12.80	28.30	44.50	57.70	100.30	147.90	169.20	274.50	534.70
9	PVC Equal tee (Mould) BIS 7834/1975	4	8.10	12.10	21.20	34.40	54.70	71.90	118.50	197.50	253.30	371.80	782.40
10	PVC Male Threaded Adopter					16.20	22.20	35.40	54.70	86.10	136.70	209.70	350.50
11	PVC End Cap	2	3	5	8.10	11.10	17.20	20.20	28.70	54.70	75.50	104.50	193.50
12	PVC Tail piece without flange (BIS marks)	-	-	-	-	18.90	20.00	26.30	40.80	66.70	113.80	174.20	288.70
13	PVC flanged Tail piece	-	-	-	-	-	124.20	212.40	234.00	373.80	622.10	815.60	1220.90

Note: 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

**1.6 UN PLASTICIZED O-PVC PIPES FOR POTABLE WATER SUPPLY AS PER
16647 / 2017**

IS

Sl. No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
I	PN 12.5 Class 500					
1	110mm	Metre		763.50		
2	160mm	Metre		1282.00		
3	200mm	Metre		1724.50		
4	250mm	Metre		2337.00		
5	315mm	Metre		2959.50		
6	400mm	Metre		4465.50		
II	PN 16 Class 500					
1	110mm	Metre		840.00		
2	160mm	Metre		1425.00		
3	200mm	Metre		1918.50		
4	250mm	Metre		2627.00		
5	315mm	Metre		3561.50		
6	400mm	Metre		5433.00		

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
3) GST extra applicable as per GO

**2.0 HDPE PIPES - PE 100 AS PER IS 4984/2016
(Pre-Compounded Resin)**

SI No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
	PN 6					
1	50 mm	Metre		80.00		
2	63 mm	Metre		125.00		
3	75 mm	Metre		180.00		
4	90 mm	Metre		254.00		
5	110 mm	Metre		385.00		
6	125 mm	Metre		490.00		
7	140 mm	Metre		614.00		
8	160 mm	Metre		805.00		
9	180 mm	Metre		1013.00		
10	200 mm	Metre		1253.00		
11	225 mm	Metre		1584.00		
12	250 mm	Metre		1953.00		
13	280 mm	Metre		2437.00		
14	315 mm	Metre		3072.00		
15	355 mm	Metre		3902.00		
16	400 mm	Metre		4962.00		
17	450 mm	Metre		6570.00		
18	500 mm	Metre		8106.50		
19	560 mm	Metre		10149.50		
20	630 mm	Metre		12820.80		
	PN 8					
1	50 mm	Metre		98.00		
2	63 mm	Metre		153.00		
3	75 mm	Metre		220.00		
4	90 mm	Metre		308.00		
5	110 mm	Metre		462.00		
6	125 mm	Metre		598.00		
7	140 mm	Metre		748.00		
8	160 mm	Metre		980.00		
9	180 mm	Metre		1230.00		
10	200 mm	Metre		1516.00		
11	225 mm	Metre		1919.00		
12	250 mm	Metre		2367.00		
13	280 mm	Metre		2969.00		
14	315 mm	Metre		3762.00		
15	355 mm	Metre		4761.00		
16	400 mm	Metre		6058.00		
17	450 mm	Metre		8179.00		
18	500 mm	Metre		10107.70		
19	560 mm	Metre		12655.00		
20	630 mm	Metre		16003.20		

SI No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
	PN 10					
1	50 mm	Metre		121.00		
2	63 mm	Metre		190.00		
3	75 mm	Metre		268.00		
4	90 mm	Metre		385.00		
5	110 mm	Metre		564.00		
6	125 mm	Metre		729.00		
7	140 mm	Metre		910.00		
8	160 mm	Metre		1194.00		
9	180 mm	Metre		1511.00		
10	200 mm	Metre		1858.00		
11	225 mm	Metre		2359.00		
12	250 mm	Metre		2900.00		
13	280 mm	Metre		3643.00		
14	315 mm	Metre		4602.00		
15	355 mm	Metre		5842.00		
16	400 mm	Metre		7444.00		
17	450 mm	Metre		9862.90		
18	500 mm	Metre		11697.00		
19	560 mm	Metre		15269.90		
20	630 mm	Metre		19341.20		
	PN 12.5					
1	50 mm	Metre		144.00		
2	63 mm	Metre		229.00		
3	75 mm	Metre		322.00		
4	90 mm	Metre		458.00		
5	110 mm	Metre		684.00		
6	125 mm	Metre		885.00		
7	140 mm	Metre		1110.00		
8	160 mm	Metre		1448.00		
9	180 mm	Metre		1825.00		
10	200 mm	Metre		2353.00		
11	225 mm	Metre		2855.00		
12	250 mm	Metre		3525.00		
13	280 mm	Metre		4416.00		
14	315 mm	Metre		5587.00		
15	355 mm	Metre		7083.00		
16	400 mm	Metre		8990.00		
17	450 mm	Metre		12038.50		
18	500 mm	Metre		14576.10		
19	560 mm	Metre		18256.00		
20	630 mm	Metre		23111.30		

SI No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
PN 16						
1	50 mm	Metre		172.00		
2	63 mm	Metre		262.00		
3	75 mm	Metre		383.00		
4	90 mm	Metre		544.00		
5	110 mm	Metre		818.00		
6	125 mm	Metre		1051.00		
7	140 mm	Metre		1322.00		
8	160 mm	Metre		1723.00		
9	180 mm	Metre		2175.00		
10	200 mm	Metre		2691.00		
11	225 mm	Metre		3397.00		
12	250 mm	Metre		4195.00		
13	280 mm	Metre		5262.00		
14	315 mm	Metre		6651.00		
15	355 mm	Metre		8462.00		
16	400 mm	Metre		10738.00		
17	450 mm	Metre		13956.00		
18	500 mm	Metre		17240.70		

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
- 2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
- 3) GST extra applicable as per GO

**2.1 SPECIALS FOR HDPE PIPES AS PER IS 8360/1977/Part I(Reaffirmed 1992)
Part II and III (Reaffirmed 2002)**

SI No	Description	Unit	Rate for 2022 -23 in Rupees	
			90 Degree Bend	Equal Tee
	PN 6			
1	50 mm	Each	44.00	67.00
2	63 mm	Each	70.00	106.00
3	75 mm	Each	121.00	184.00
4	90 mm	Each	243.00	336.00
5	110 mm	Each	448.00	570.00
6	125 mm	Each	595.00	613.00
7	140 mm	Each	819.00	840.00
8	160 mm	Each	1187.00	1239.00
9	180 mm	Each	1365.00	1761.00
10	200 mm	Each	1862.00	2345.00
11	225 mm	Each	2674.00	3310.00
12	250 mm	Each	3680.00	4497.00
13	280 mm	Each	5089.00	6252.00
14	315 mm	Each	7372.00	8623.00
15	355 mm	Each	10332.00	12059.00
16	400 mm	Each	15271.00	17637.00
17	450 mm	Each	21619.00	25039.00
18	500 mm	Each	28417.00	39321.00
19	560 mm	Each	38742.00	54068.00
20	630 mm	Each	60505.00	74870.00
	PN 8			
1	125 mm	Each	567.00	650.00
2	140 mm	Each	757.00	889.00
3	160 mm	Each	1077.00	1286.00
4	180 mm	Each	1504.00	1795.00
5	200 mm	Each	1949.00	2397.00
6	225 mm	Each	2780.00	3343.00
7	250 mm	Each	3742.00	4510.00
8	280 mm	Each	5176.00	6232.00
9	315 mm	Each	10755.00	8537.00
10	355 mm	Each	15339.00	11876.00
11	400 mm	Each	22388.00	17222.00
12	450 mm	Each	31891.00	24322.00
13	500 mm	Each	43743.00	43991.00
14	560 mm	Each	61472.00	55078.00
15	630 mm	Each	87526.00	70131.00
	PN 10			
1	50 mm	Each	62.00	103.00
2	63 mm	Each	105.00	164.00
3	75 mm	Each	175.00	278.00
4	90 mm	Each	343.00	475.00
5	110 mm	Each	602.00	816.00
6	125 mm	Each	827.00	923.00
7	140 mm	Each	1213.00	1360.00
8	160 mm	Each	1712.00	1992.00

SI No	Description	Unit	Rate for 2022 -23 in Rupees	
			90 Degree Bend	Equal Tee
9	180 mm	Each	2131.00	2769.00
10	200 mm	Each	2913.00	3788.00
11	225 mm	Each	4177.00	5391.00
12	250 mm	Each	5728.00	7334.00
13	280 mm	Each	7918.00	10248.00
14	315 mm	Each	11480.00	14468.00
15	355 mm	Each	16141.00	21606.00
16	400 mm	Each	23902.00	31185.00
17	450 mm	Each	33736.00	41399.00
18	500 mm	Each	44316.00	61322.00
19	560 mm	Each	61519.00	93027.00
20	630 mm	Each	91241.00	136860.00
	PN 12.5			
1	125 mm	Each	835.00	1068.00
2	140 mm	Each	1164.00	1568.00
3	160 mm	Each	1666.00	2333.00
4	180 mm	Each	2314.00	3303.00
5	200 mm	Each	3093.00	4565.00
6	225 mm	Each	4403.00	6029.00
7	250 mm	Each	5624.00	8226.00
8	280 mm	Each	8049.00	11595.00
9	315 mm	Each	17077.00	15224.00
10	355 mm	Each	22595.00	21780.00
11	400 mm	Each	31902.00	29124.00
12	450 mm	Each	46495.00	55121.00
13	500 mm	Each	63723.00	79041.00
14	560 mm	Each	89427.00	110967.00
15	630 mm	Each	127359.00	157975.00
	PN 16			
1	50 mm	Each	90.00	142.00
2	63 mm	Each	149.00	230.00
3	75 mm	Each	248.00	346.00
4	90 mm	Each	485.00	534.00
5	110 mm	Each	874.00	751.00
6	125 mm	Each	1135.00	1161.00
7	140 mm	Each	1584.00	1667.00
8	160 mm	Each	2679.00	2366.00
9	180 mm	Each	3716.00	3353.00
10	200 mm	Each	4978.00	4577.00
11	225 mm	Each	7088.00	6340.00
12	250 mm	Each	9061.00	8841.00
13	280 mm	Each	12955.00	12363.00
14	315 mm	Each	22367.00	16702.00
15	355 mm	Each	31374.00	25291.00
16	400 mm	Each	46484.00	36492.00
17	450 mm	Each	65910.00	50732.00
18	500 mm	Each	100583.00	84020.00

Note: 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

3.0 A.C.PRESSURE PIPES AS PER IS 1592 / 2003

Sl.No	Description	Unit	Rate for 2022-23 in Rupees
I	Class 15		
1	80mm	Metre	296.00
2	100mm	Metre	389.00
3	125mm	Metre	508.00
4	150mm	Metre	715.00
5	200mm	Metre	1184.00
6	250mm	Metre	1500.00
7	300mm	Metre	2099.00
8	350mm	Metre	2559.00
9	400mm	Metre	3628.00
10	450mm	Metre	4307.00
II	Class 20		
1	80mm	Metre	324.00
2	100mm	Metre	495.00
3	125mm	Metre	633.00
4	150mm	Metre	890.00
5	200mm	Metre	1515.00
6	250mm	Metre	1946.00
7	300mm	Metre	2735.00
8	350mm	Metre	3326.00
9	400mm	Metre	4746.00
10	450mm	Metre	5718.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

3.1 A.C. COUPLER AS PER IS 1592 /2003

Sl.No	Description	Unit	Rate for 2022-23 in Rupees
I	Class 15		
1	80mm	Each	256.00
2	100mm	Each	331.00
3	125mm	Each	417.00
4	150mm	Each	500.00
5	200mm	Each	856.00
6	250mm	Each	999.00
7	300mm	Each	1268.00
8	350mm	Each	1655.00
9	400mm	Each	2436.00
10	450mm	Each	2878.00
II	Class 20		
1	80mm	Each	272.00
2	100mm	Each	351.00
3	125mm	Each	449.00
4	150mm	Each	591.00
5	200mm	Each	919.00
6	250mm	Each	1236.00
7	300mm	Each	1601.00
8	350mm	Each	2075.00
9	400mm	Each	3094.00
10	450mm	Each	3699.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

3.2 C.I.D.JOINTS AS PER IS 8794 / 1988

Sl.No	Description	Unit	Rate for 2022 -23 in Rupees
I	Class 15		
1	80mm	Each	432.00
2	100mm	Each	542.00
3	125mm	Each	683.00
4	150mm	Each	875.00
5	200mm	Each	1273.00
6	250mm	Each	1656.00
7	300mm	Each	1998.00
8	350mm	Each	3361.00
9	400mm	Each	4191.00
10	450mm	Each	5033.00
II	Class 20		
1	80mm	Each	443.00
2	100mm	Each	549.00
3	125mm	Each	737.00
4	150mm	Each	887.00
5	200mm	Each	1353.00
6	250mm	Each	1783.00
7	300mm	Each	1950.00
8	350mm	Each	3576.00
9	400mm	Each	4292.00
10	450mm	Each	5070.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

4.0 C.I. SPUN PIPES AS PER IS 1536/2001 Amendment No.3.July 2008

Sl.No.	Size of pipes	Unit	Rate for 2022 -23 in Rupees.
I	LA Class		
1	80mm	Metre	1301.80
2	100mm	Metre	1613.10
3	125mm	Metre	2102.70
4	150mm	Metre	2496.40
5	200mm	Metre	3607.60
6	250mm	Metre	4862.10
7	300mm	Metre	6271.10
8	350mm	Metre	8113.20
9	400mm	Metre	9872.00
10	450mm	Metre	11904.80
11	500mm	Metre	13936.50
12	600mm	Metre	18573.00
13	700mm	Metre	23836.70
14	750mm	Metre	26787.80
II	A Class		
1	80mm	Metre	1415.70
2	100mm	Metre	1776.70
3	125mm	Metre	2296.80
4	150mm	Metre	2733.30
5	200mm	Metre	3916.70
6	250mm	Metre	5281.70
7	300mm	Metre	6855.40
8	350mm	Metre	8800.30
9	400mm	Metre	10789.10
10	450mm	Metre	13079.10
11	500mm	Metre	15181.90
12	600mm	Metre	20275.30
13	700mm	Metre	25960.90
14	750mm	Metre	29161.30

III	B Class		
1	80mm	Metre	1518.40
2	100mm	Metre	1895.20
3	125mm	Metre	2473.90
4	150mm	Metre	2942.00
5	200mm	Metre	4237.10
6	250mm	Metre	5727.30
7	300mm	Metre	7429.60
8	350mm	Metre	9544.80
9	400mm	Metre	11646.50
10	450mm	Metre	14110.20
11	500mm	Metre	16424.00
12	600mm	Metre	21965.20
13	700mm	Metre	27972.30
14	750mm	Metre	31548.40

Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.

2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.

3) GST extra applicable as per GO

4.1 C.I D/F PIPES AS PER IS 7181/1986 & IS 1537/1996

Sl. No	Size	Unit	Rate for 2022 -23 in Rupees.
I	STANDARD		
1	80mm to 200mm	Kg	89.10
2	250mm to 400mm	Kg	93.60
3	450mm to 750mm	Kg	98.10
II	NON-STANDARD		
1	80mm to 200mm	Kg	95.80
2	250mm to 400mm	Kg	98.10
3	450mm to 750mm	Kg	103.70

**4.2 CI D/F SPECIALS & S/S SPECIALS
AS PER IS 1538/1993**

Sl. No	Size	Unit	Rate for 2022 -23 in Rupees.
I	STANDARD		
1	80mm to 200mm	Kg	84.60
2	250mm to 400mm	Kg	98.10
3	450mm to 750mm	Kg	107.10
II.	NON-STANDARD		
1	80mm to 200mm	Kg	89.10
2	250mm to 400mm	Kg	103.70
3	450mm to 750mm	Kg	110.50

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

5.0 G I PIPES (MEDIUM) AS PER IS 1239/PART I/2004

SI No	Description	Unit	Rate for 2022 -23 in Rupees.
1	15mm	Metre	113.60
2	20mm	Metre	148.70
3	25mm	Metre	220.90
4	32mm	Metre	276.10
5	40mm	Metre	321.80
6	50mm	Metre	437.60
7	65mm	Metre	559.80
8	80mm	Metre	693.60
9	100mm	Metre	987.90
10	125mm	Metre	1419.20
11	150mm	Metre	1588.10

Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.

2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.

3) GST extra applicable as per GO

5.1 a G.I. SPECIALS AS PER IS 1239/ PART II

Sl.No.	Description	Unit	Rates for 2022 -23 in Rupees
	GI REDUCER (HEAVY)		
1	150 mm x 125 mm	Each	939.00
2	150 mm x 100 mm	Each	967.00
3	150 mm x 80 mm	Each	967.00
4	125 mm x 100 mm	Each	853.00
5	125 mm x 80 mm	Each	870.00
6	125 mm x 65 mm	Each	862.00
7	125 mm x 50 mm	Each	870.00
8	100 mm x 80 mm	Each	599.00
9	100 mm x 65 mm	Each	599.00
10	100 mm x 50 mm	Each	586.00
11	80 mm x 65 mm	Each	363.00
12	80 mm x 50 mm	Each	374.00
13	80 mm x 40 mm	Each	366.00
14	80 mm x 32 mm	Each	374.00
15	65 mm x 50 mm	Each	256.00
16	65 mm x 40 mm	Each	252.00
17	65 mm x 32 mm	Each	256.00
18	65 mm x 20 mm	Each	254.00
19	50 mm x 40 mm	Each	141.00
20	50 mm x 32 mm	Each	137.00
21	50 mm x 20 mm	Each	137.00
22	40 mm x 32 mm	Each	97.00
23	40 mm x 20 mm	Each	95.00
	GI REDUCER (MEDIUM)		
1	150 mm x 125 mm	Each	786.00
2	150 mm x 100 mm	Each	770.00
3	150 mm x 80 mm	Each	786.00
4	125 mm x 100 mm	Each	646.00
5	125 mm x 80 mm	Each	665.00
6	125 mm x 65 mm	Each	658.00
7	125 mm x 50 mm	Each	665.00
8	100 mm x 80 mm	Each	424.00
9	100 mm x 65mm	Each	432.00
10	100 mm x 50 mm	Each	432.00
11	80 mm x 65 mm	Each	236.00

Sl.No.	Description	Unit	Rates for 2022 -23 in Rupees
12	80 mm x 50 mm	Each	189.00
13	80 mm x 40 mm	Each	183.00
14	80 mm x 32 mm	Each	185.00
15	65 mm x 50 mm	Each	135.00
16	65 mm x 40 mm	Each	135.00
17	65 mm x 32 mm	Each	135.00
18	65 mm x 20 mm	Each	132.00
19	50 mm x 40 mm	Each	91.00
20	50 mm x 32 mm	Each	89.00
21	50 mm x 20 mm	Each	91.00
22	40 mm x 32 mm	Each	58.00
23	40 mm x 20 mm	Each	58.00
	G I UNEQUAL TEE (HEAVY)		
1	150 mm x 125 mm	Each	2003.00
2	150 mm x 100 mm	Each	2024.00
3	150 mm x 80 mm	Each	1676.00
4	125 mm x 100 mm	Each	1676.00
5	125 mm x 80 mm	Each	1676.00
6	125 mm x 65 mm	Each	1660.00
7	125 mm x 50 mm	Each	1676.00
8	100 mm x 80 mm	Each	1142.00
9	100 mm x 65mm	Each	1164.00
10	100 mm x 50 mm	Each	1164.00
11	80 mm x 65 mm	Each	660.00
12	80 mm x 50 mm	Each	679.00
13	80 mm x 40 mm	Each	666.00
14	80 mm x 32 mm	Each	677.00
15	65 mm x 50 mm	Each	499.00
16	65 mm x 40 mm	Each	490.00
17	65 mm x 32 mm	Each	499.00
18	65 mm x 20 mm	Each	495.00
19	50 mm x 40 mm	Each	296.00
20	50 mm x 32 mm	Each	289.00
21	50 mm x 20 mm	Each	296.00
22	40 mm x 32 mm	Each	184.00
23	40 mm x 20 mm	Each	188.00
24	32 mm x 20 mm	Each	134.00

Sl.No.	Description	Unit	Rates for 2022 -23 in Rupees
	G.I UNEQUAL TEE(MEDIUM)		
1	150 mm x 125 mm	Each	1238.00
2	150 mm x 100 mm	Each	1238.00
3	150 mm x 80 mm	Each	1214.00
4	125 mm x 100 mm	Each	1004.00
5	125 mm x 80 mm	Each	1004.00
6	125 mm x 65 mm	Each	994.00
7	125 mm x 50 mm	Each	1004.00
8	100 mm x 80 mm	Each	661.00
9	100 mm x 65mm	Each	661.00
10	100 mm x 50 mm	Each	648.00
11	80 mm x 65 mm	Each	316.00
12	80 mm x 50 mm	Each	325.00
13	80 mm x 40 mm	Each	325.00
14	80 mm x 32 mm	Each	325.00
15	65 mm x 50 mm	Each	229.00
16	65 mm x 40 mm	Each	225.00
17	65 mm x 32 mm	Each	229.00
18	65 mm x 20 mm	Each	229.00
19	50 mm x 40 mm	Each	132.00
20	50 mm x 32 mm	Each	133.00
21	50 mm x 20 mm	Each	135.00
22	40 mm x 32 mm	Each	99.00
23	40 mm x 20 mm	Each	99.00
24	32 mm x 20 mm	Each	98.00
	MS BOLTS AND NUTS		
1	16 mm dia x 65 to 90 mm length fully threaded bolts and nuts with 2 Nos.	Kg.	118.00
2	20mm dia and above x 90mm to 120mm length fully threaded bolts	Kg.	123.00
	RUBBER INSERTION SHEET		
1	3 Ply R.I. Sheet	Kg.	102.00
	AC COWL		
1	80 mm dia	Each	36.00
2	100 mm dia	Each	62.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

5.1b G.I. SPECIALS AS PER IS 1239/PART II

CONTINUED....

Sl. No.	Description	Rate for 2022 -23 in Rupees											
		15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	
1	G.I. Equal Elbow plain	27.00	36.00	56.00	96.00	119.00	178.00	321.00	474.00	846.00	872.00	2092.00	
2	G.I. Equal Tee plain	42.00	52.00	74.00	109.00	160.00	265.00	416.00	592.00	1059.00	1525.00	2136.00	
3	G.I. Coupling	18.00	25.00	33.00	62.00	96.00	143.00	239.00	293.00	586.00	884.00	1783.00	
4	G.I. Flange set	-	-	-	-	-	84.00	103.00	119.00	197.00	287.00	1016.00	
5	G.I. Cross	62.00	78.00	129.00	207.00	267.00	403.00	623.00	984.00	1295.00	1627.00	-	
6	G.I. Hex Nipple	25.00	45.00	45.00	70.00	88.00	121.00	207.00	291.00	432.00	461.00	993.00	
7	G.I. Three Way Elbow	54.00	83.00	123.00	194.00	252.00	405.00	-	-	-	-	-	
8	G.I.Plug Dia Head Taper Thread	10.60	24.40	24.40	41.40	41.40	47.80	88.10	120.00	173.10	242.20	-	
9	G.I.Bend	25.40	44.60	70.10	82.80	109.40	163.50	278.30	419.60	737.20	1065.40	2522.90	
10	G.I.Union	73.20	77.50	132.70	186.90	236.80	337.80	632.00	881.70	1308.70	1750.60	2601.50	
11	G.M. Ferrule	402.60	606.50	892.30	-	-	-	-	-	-	-	-	
12	G.I.stop cock	195.40	261.30	473.70	705.30	1049.50	1518.00	1935.50	2555.80	3917.70	5605.70	-	
13	Rubber sheet for Flange set	-	-	-	-	-	17.00	17.00	24.00	47.00	49.00	114.00	
14	G.I. Reduced Elbow Plain	33.90	38.20	64.80	103.00	134.90	197.50	345.20	526.90	907.20	1307.60	1764.40	
15	G.I.Reduced Tee Plain	46.70	63.70	96.60	138.00	175.20	266.60	407.90	632.00	1190.80	1681.60	2007.70	
16	G.I. Reduced Socket Plain	26.50	54.10	58.40	82.80	127.40	181.60	232.60	359.00	505.60	654.30	944.30	
17	G.I. Check Nut	16.90	24.40	31.80	47.80	63.70	87.10	143.40	189.00	251.70	318.60	919.90	
18	G.I.Reduced Nipple	25.40	28.60	53.10	101.90	121.10	184.80	344.10	398.30	559.80	794.60	993.20	
19	G.I. Dummy (Heavy)	-	-	-	-	27.00	42.00	53.00	70.00	123.00	176.00	-	
20	G.I.Dummy (Medium)	-	-	-	-	24.00	34.00	48.00	58.00	114.00	174.00	-	
21	M.S.Saddle Piece	-	-	-	-	-	103.00	109.00	131.00	174.00	224.00	692.00	
22	Waste Not Tap	-	148.00	-	-	-	-	-	-	-	-	-	
23	C.I.Footvalve with stainer	-	-	-	-	-	461.00	-	685.00	-	-	-	
24	M.S.Clampset	-	-	-	-	205.00	237.00	407.00	572.00	679.00	-	995.00	

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO.

5.2 G.M GATE VALVES AS PER IS BS 5154 and related IS Specifications

Sl.N o.	Description	Rate for 2022 -23 in Rupees									
		15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm
1	G.M. Gate valves	-	572.50	766.90	999.60	1376.70	2190.40	3353.60	5431.50	9127.20	13241.50
2	G.M. Non Return valves	-	-	-	-	-	2498.00	2557.00	4013.00	-	-

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

**6.0 DUCTILE IRON SOCKET/SPIGOT PIPES FOR CLASS K7
AS PER IS 8329/2000**

SI No	Description	Unit	Rate for 2022 -23 in Rupees
1	100 mm	Metre	1283.70
2	150 mm	Metre	1821.80
3	200 mm	Metre	2354.00
4	250 mm	Metre	3097.00
5	300 mm	Metre	3957.00
6	350mm	Metre	4860.00
7	400 mm	Metre	5874.00
8	450 mm	Metre	6943.40
9	500 mm	Metre	8178.70
10	600 mm	Metre	10784.60
11	700 mm	Metre	13233.70
12	750 mm	Metre	15192.10
13	800 mm	Metre	16995.90
14	900 mm	Metre	19815.00
15	1000 mm	Metre	25798.50

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
- 2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
- 3) GST extra applicable as per GO

**6.1 DUCTILE IRON SOCKET/SPIGOT PIPES FOR CLASS K9
AS PER IS 8329/2000**

SI No	Description	Unit	Rate for 2022 -23 in Rupees
1	100 mm	Metre	1454.10
2	150 mm	Metre	2105.00
3	200 mm	Metre	2825.00
4	250 mm	Metre	3789.00
5	300 mm	Metre	4795.55
6	350mm	Metre	5852.50
7	400 mm	Metre	7023.50
8	450 mm	Metre	8443.80
9	500 mm	Metre	9762.50
10	600 mm	Metre	12929.10
11	700 mm	Metre	14911.20
12	750 mm	Metre	16719.50
13	800 mm	Metre	18291.00
14	900 mm	Metre	22408.50
15	1000 mm	Metre	26856.60

Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.

2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.

3) GST extra applicable as per GO

**6.2 DUCTILE IRON CLASS PN10 FLANGED PIPES
AS PER IS 8329/2000**

SI No	Description	Unit	Rate for 2022 -23 in Rupees
I	1 m length of pipes		
1	80 mm	Each	3232.00
2	100 mm	Each	3634.00
3	150 mm	Each	5036.00
4	200 mm	Each	6702.00
5	250 mm	Each	9008.00
6	300 mm	Each	11745.00
7	350mm	Each	14956.00
8	400 mm	Each	20325.00
9	450 mm	Each	24908.00
10	500 mm	Each	28385.00
11	600 mm	Each	36072.00
12	700 mm	Each	48169.00
13	750 mm	Each	55338.00
14	800 mm	Each	62509.00
15	900 mm	Each	86958.00
16	1000mm	Each	100941.00
II	1.5 m length of pipes		
1	80 mm	Each	3984.00
2	100 mm	Each	4149.00
3	150 mm	Each	5762.00
4	200 mm	Each	7702.00
5	250 mm	Each	10292.00
6	300 mm	Each	13364.00
7	350 mm	Each	17437.00
8	400 mm	Each	23288.00
9	450 mm	Each	28431.00
10	500 mm	Each	32478.00
11	600 mm	Each	41498.00
12	700 mm	Each	55566.00
13	750 mm	Each	64225.00
14	800 mm	Each	72882.00
15	900 mm	Each	100756.00
16	1000 mm	Each	117339.00
III	2 m length of pipes		
1	80 mm	Each	4735.00
2	100 mm	Each	4668.00
3	150 mm	Each	6489.00
4	200 mm	Each	8702.00
5	250 mm	Each	11575.00
6	300 mm	Each	14982.00

SI No	Description	Unit	Rate for 2022 -23 in Rupees
7	350mm	Each	19917.00
8	400 mm	Each	26256.00
9	450 mm	Each	31956.00
10	500 mm	Each	36569.00
11	600 mm	Each	46926.00
12	700 mm	Each	62958.00
13	750 mm	Each	73106.00
14	800 mm	Each	83257.00
15	900 mm	Each	114564.00
16	1000mm	Each	133746.00
IV	2.5 m length of pipes		
1	80 mm	Each	5486.00
2	100 mm	Each	5186.00
3	150 mm	Each	7215.00
4	200 mm	Each	9703.00
5	250 mm	Each	12854.00
6	300 mm	Each	16602.00
7	350 mm	Each	22393.00
8	400 mm	Each	29223.00
9	450 mm	Each	35481.00
10	500 mm	Each	40662.00
11	600 mm	Each	52356.00
12	700 mm	Each	70353.00
13	750 mm	Each	79958.00
14	800 mm	Each	89563.00
15	900 mm	Each	122786.00
16	1000 mm	Each	143630.00
V	3 m length of pipes		
1	80 mm	Each	5927.00
2	100 mm	Each	5702.00
3	150 mm	Each	7942.00
4	200 mm	Each	10703.00
5	250 mm	Each	14225.00
6	300 mm	Each	18264.00
7	350mm	Each	24876.00
8	400 mm	Each	32182.00
9	450 mm	Each	39007.00
10	500 mm	Each	44752.00
11	600 mm	Each	57788.00
12	700 mm	Each	77753.00
13	750 mm	Each	88622.00
14	800 mm	Each	99490.00
15	900 mm	Each	135984.00
16	1000mm	Each	159326.00

Sl No	Description	Unit	Rate for 2022 -23 in Rupees
VI	3.5 m length of pipes		
1	80 mm	Each	6341.00
2	100 mm	Each	6221.00
3	150 mm	Each	8668.00
4	200 mm	Each	11703.00
5	250 mm	Each	15671.00
6	300 mm	Each	20094.00
7	350 mm	Each	27358.00
8	400 mm	Each	35149.00
9	450 mm	Each	42529.00
10	500 mm	Each	48842.00
11	600 mm	Each	63215.00
12	700 mm	Each	85148.00
13	750 mm	Each	97279.00
14	800 mm	Each	109408.00
15	900 mm	Each	149192.00
16	1000 mm	Each	175005.00
VII	4 m length of pipes		
1	80 mm	Each	6953.00
2	100 mm	Each	7432.00
3	150 mm	Each	10704.00
4	200 mm	Each	14394.00
5	250 mm	Each	18961.00
6	300 mm	Each	24399.00
7	350mm	Each	32785.00
8	400 mm	Each	42116.00
9	450 mm	Each	50984.00
10	500 mm	Each	59632.00
11	600 mm	Each	77181.00
12	700 mm	Each	102659.00
13	750 mm	Each	119100.00
14	800 mm	Each	132190.00
15	900 mm	Each	180392.00
16	1000mm	Each	211673.00
VIII	5 m length of pipes		
1	80 mm	Each	8061.80
2	100 mm	Each	9653.30
3	150 mm	Each	14057.60
4	200 mm	Each	18577.10
5	250 mm	Each	25233.90
6	300 mm	Each	32238.10
7	350 mm	Each	38917.80
8	400 mm	Each	50239.90
9	450 mm	Each	59046.60

SI No	Description	Unit	Rate for 2022 -23 in Rupees
10	500 mm	Each	68040.60
11	600 mm	Each	89203.30
12	700 mm	Each	112808.40
13	750 mm	Each	128663.50
14	800 mm	Each	144120.30
15	900 mm	Each	195982.20
16	1000 mm	Each	230379.00

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
 - 3) GST extra applicable as per GO

6.3 DUCTILE IRON SPECIALS AS PER IS 9523/2000

SI No	Description	Unit	Rate for 2022 -23 in Rupees
	ALL SOCKET		
1	100mm - 200 mm dia	Kg	138.20
2	250 mm - 300 mm dia	Kg	140.40
3	350 mm - 450 mm dia	Kg	142.60
4	500 mm - 600 mm dia	Kg	144.00
5	700 mm - 750 mm	Kg	212.00
6	800mm	Kg	212.00
7	900 mm	Kg	222.00
8	1000 mm	Kg	241.00
	ALL FLANGE		
1	100mm - 200 mm dia	Kg	143.00
2	250 mm - 300 mm dia	Kg	145.00
3	350 mm - 450 mm dia	Kg	148.00
4	500 mm - 600 mm dia	Kg	151.00
5	700 mm - 750 mm	Kg	219.00
6	800 mm	Kg	219.00
7	900 mm	Kg	231.00
8	1000 mm	Kg	243.00

Note: In respect of flanged and spigot, flanged and socketted type specials, the rate applicable for flanged type specials is allowed.

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

7.0. HOUSE SERVICE CONNECTION IN WSS.

S.No	Description	Unit	Rate for 2022-23 in Rupees
1	HSC Connection in HDPE Mains for Water Supply Scheme		
	Electrofusion tapping saddle PE 80 blue, PN 12.5 with female threaded metal insert of SS 304 as per standards BS EN 12201 tested as per BS 6920 for drinking water in WRC-NSF Ltd, UK. (Non Wrap with top loading type). Sizes:63mm to 315mm dia distribution HDPE pipes.		
	20mm (1/2")	1 No.	575.00
	25mm (3/4")	1 No.	575.00
	32mm (1")	1 No.	575.00
2	HSC Connection in DI Mains for Water Supply Scheme		
	Providing suitable dia non corrosive engineering plastic moulded Clamp Saddle with SS 304 threaded metal inserted for tapping outlet suiting for 1/2", 3/4" & 1" clear bore and with wide plastic strap (Engineering Plastic) with SS 304 suitable bolts & nuts. Saddle to have sealing of Thermo plastic elastomeric (TPE) material around.		
	20mm (1/2")	1 No.	740.00
	25mm (3/4")	1 No.	850.00
	32mm (1")	1 No.	880.00
3	Common Items for HSC Connection		
i	Brass Ferrule as per IS 319 grade of sizes 15mm, 20mm and 25mm size and threaded as per IS:1554 BSPT, ISO:7-1 to suit the corresponding bore sizes of 15mm, 20mm and 25mm dia size (1/2", 3/4" and 1") in the saddle Connection as per IS :1554 BSPT, ISO:7-1		
	15mm (1/2")	1 No.	169.00
	20mm (3/4")	1 No.	250.00
	25mm (1")	1 No.	320.00
ii	Poly Propylene compression Female Threaded Adaptor with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK for connecting 15mm, 20mm and 25mm outlet points of Brass ferrule of sizes 15mm, 20mm and 25mm respectively.		
	20mm (1/2")	1 No.	125.00
	25mm (3/4")	1 No.	160.00
	32mm (1")	1 No.	190.00
iii	Poly propylene 90 Degree Compression elbow with compression joint at both ends as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes		
	20mm (1/2")	1 No.	70.00
	25mm (3/4")	1 No.	90.00
	32mm (1")	1 No.	145.00

iv	Poly Propylene compression Female Threaded Elbow with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes		
	20mm (1/2")	1 No.	130.00
	25mm (3/4")	1 No.	160.00
	32mm (1")	1 No.	200.00
v	Poly Propylene compression Male Threaded Adaptor with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes		
	20mm (1/2")	1 No.	114.00
	25mm (3/4")	1 No.	150.00
	32mm (1")	1 No.	185.00
vi	MDPE PE 80 PN16 Blue pipe as per standards ISO 4427 and Tested as per BS 6920 in WRC-NSF LTD, UK		
	20mm (1/2")	1M	23.00
vii	MDPE PE 80 PN12.5 Blue pipe as per standards ISO 4427 and Tested as per BS 6920 in WRC-NSF LTD, UK, suitable for 20mm, 25mm and 32mm OD MDPE pipes		
	25mm (3/4")	1M	34.00
	32mm (1")	1M	37.00
viii	U PVC ball valve with one side compression end and other side female end as per ISO 4422-4 and Tested as per BS 6920 in WRC-NSF LTD, UK, size : 20mm ODx1/2"ID, 25mm ODx1/2"ID and 32mm OD X 3/4" ID		
	20mm (1/2")	1 No.	132.00
	25mm (3/4")	1 No.	169.00
	32mm (1")	1 No.	201.00
ix	Supply and delivery of protection box of size 20cm x 30cm for fixing of Water Meter. The box should be rectangular base in construction and material of construction should be weather resistant polyethylene (PE) blue /black .Reinforcement ribs should be provided at the walls of the box. Box should be at two components comprising body and lid. Lid should be press fitted to the body. No hinges should be used for opened /closed. Operation meter box should be provided with built in lock. The body as inlet and outlet windows to pass the pipe through suitable for use with pipes of sizes up to 1" .Base of the box should be designed in such a way .That the box can be installed to the floor/wall using anchor Bolts / screws without grouting the entire base of the meter Box .Provision for fixing Name plate showing the name of the Department etc., complete and as directed by the TWAD Board Officers.	1 No.	440.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

8.0 BAR WRAPPED STEEL CYLINDER PIPES AS PER IS 15155 - 2002

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
	4 Ksc Pipe		
1	350mm	Metre	4128.80
2	400mm	Metre	4571.00
3	450mm	Metre	5253.50
4	500mm	Metre	5729.60
5	600mm	Metre	7361.90
6	700mm	Metre	8547.60
7	800mm	Metre	9781.70
8	900mm	Metre	12146.20
9	1000mm	Metre	14066.20
10	1100mm	Metre	20127.50
11	1200mm	Metre	22343.10
12	1300mm	Metre	24697.40
13	1400mm	Metre	27570.70
14	1500mm	Metre	32823.10
	6 Ksc Pipe		
1	350mm	Metre	4131.10
2	400mm	Metre	4577.80
3	450mm	Metre	5260.30
4	500mm	Metre	5742.00
5	600mm	Metre	7372.10
6	700mm	Metre	8570.10
7	800mm	Metre	9795.20
8	900mm	Metre	12158.60
9	1000mm	Metre	14085.40
10	1100mm	Metre	20141.00
11	1200mm	Metre	22530.40
12	1300mm	Metre	24711.00
13	1400mm	Metre	27589.90
14	1500mm	Metre	32849.10
	8 Ksc Pipe		
1	350mm	Metre	4134.40
2	400mm	Metre	4585.70
3	450mm	Metre	5267.00
4	500mm	Metre	5757.80
5	600mm	Metre	7382.20
6	700mm	Metre	8597.20
7	800mm	Metre	9809.90
8	900mm	Metre	12167.60
9	1000mm	Metre	14105.70
10	1100mm	Metre	20160.20
11	1200mm	Metre	22343.10
12	1300mm	Metre	24725.60
13	1400mm	Metre	27614.70
14	1500mm	Metre	32877.30

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
	10 Ksc Pipe		
1	350mm	Metre	4136.70
2	400mm	Metre	4590.20
3	450mm	Metre	5278.30
4	500mm	Metre	5773.60
5	600mm	Metre	7395.80
6	700mm	Metre	8627.00
7	800mm	Metre	9828.00
8	900mm	Metre	12175.50
9	1000mm	Metre	14131.70
10	1100mm	Metre	20186.20
11	1200mm	Metre	22343.10
12	1300mm	Metre	24744.80
13	1400mm	Metre	27646.30
14	1500mm	Metre	32908.90
	12 Ksc Pipe		
1	350mm	Metre	4141.20
2	400mm	Metre	4600.30
3	450mm	Metre	5286.20
4	500mm	Metre	5792.70
5	600mm	Metre	7415.00
6	700mm	Metre	8627.00
7	800mm	Metre	9991.50
8	900mm	Metre	12203.70
9	1000mm	Metre	14324.60
10	1100mm	Metre	20217.80
11	1200mm	Metre	22480.70
12	1300mm	Metre	24770.80
13	1400mm	Metre	27685.80
14	1500mm	Metre	32956.30
	14 Ksc Pipe		
1	350mm	Metre	4144.60
2	400mm	Metre	4616.10
3	450mm	Metre	5302.00
4	500mm	Metre	5818.70
5	600mm	Metre	7434.10
6	700mm	Metre	9056.30
7	800mm	Metre	10938.00
8	900mm	Metre	13026.10
9	1000mm	Metre	15756.10
10	1100mm	Metre	20295.60
11	1200mm	Metre	22661.20
12	1300mm	Metre	25200.60
13	1400mm	Metre	29104.90
14	1500mm	Metre	35524.90

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
	16 Ksc Pipe		
1	350mm	Metre	4151.40
2	400mm	Metre	4635.30
3	450mm	Metre	5315.60
4	500mm	Metre	6070.30
5	600mm	Metre	7843.60
6	700mm	Metre	9798.60
7	800mm	Metre	11884.50
8	900mm	Metre	14199.30
9	1000mm	Metre	17227.20
10	1100mm	Metre	20767.10
11	1200mm	Metre	24211.20
12	1300mm	Metre	27646.30
13	1400mm	Metre	32001.90
14	1500mm	Metre	39303.00
	18 Ksc Pipe		
1	350mm	Metre	4158.10
2	400mm	Metre	4648.90
3	450mm	Metre	5531.00
4	500mm	Metre	5531.00
5	600mm	Metre	8204.60
6	700mm	Metre	10262.30
7	800mm	Metre	12515.10
8	900mm	Metre	14963.10
9	1000mm	Metre	17314.00
10	1100mm	Metre	21906.50
11	1200mm	Metre	25526.60
12	1300mm	Metre	29233.50
13	1400mm	Metre	33771.90
14	1500mm	Metre	41156.40

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamil nadu.
2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
3) GST extra applicable as per GO

9.0. PIPES FOR UGSS

S.No	Description	Unit	Rate for 2022 -23 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
1	Supply and Delivery of DWC Structured Wall Polyethylene Piping Systems (Pipe with online/offline coupler and elastomeric sealing ring) with required specials non-smooth external annular corrugated and smooth internal surface (Double wall) (SN 8 Class) for non-pressure underground sewerage, drainage application generally as per IS-16098 (Part-2) type B.					
a	150mm ID SN 8 pipe	Per M		252.00		
b	200mm ID SN 8 pipe	Per M		443.00		
c	250mm ID SN 8 pipe	Per M		702.00		
d	300mm ID SN 8 pipe	Per M		1025.00		
2	Supply and delivery of HDPE pipes for sewerage PE 100 PN 6 conforming to IS : 14333/1996 (amended in 2009)					
a	355 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		4659.50		
b	400 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		6055.50		
c	450 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		7771.50		
d	500 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		9605.50		
e	560 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		12006.50		
f	630 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		15206.00		
g	710 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade)	Per M		19606.50		

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
- 2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
- 3) GST extra applicable as per GO

**10.0 M.S. PIPES- SPIRAL/LONGITUDIDNAL WELDING AS PER IS 3589/2001
WITH INTERNAL LINING AND EXTERNAL COATING MADE WITH FE410**

- 1 Supply and Delivery of MS pipes of preferred dimensions ranging from 168.30mm OD to 2540mm OD having 2.6mm to 25mm thickness as per Table- 5 of IS 3589/2001 fabricated with Fe410 grade steel conforming to IS 3589:2001 and other allied codes.
- 2 Pipes shall be internally lined with plant applied cement mortar lining 1:2, The Lining thickness range from 6 mm to 12 mm for 168.3 mm OD to 2540 mm OD as per Table -8 of IS 3589:2001
- 3 Pipes shall be externally coated with plant applied CM 1:3, minimum 20mm thick including reinforcement as per clause A-9 of Annex-A of IS 3589:2001
(or)
Coal Tar Enamel Wrapping Tape as per IS 15337:2013

Sl.No.	Dia metre & thickness of pipe in mm	Rate for 2022 -23 in Rupees								
		Bare pipe per metre	CML Internal 6mm to 12mm thick per metre	CMC external 20mm thick per metre	Internal food grade epoxy coating 406 micr.per metre	External epoxy Coating 406 micr. per metre	CTE external double coating & double wrapping minimum 4mm thick per metre	External Polyethy line Sheathing per metre	CTE Wrapping Tape IS 15337:2013	Transportation in anyware in Tamilnadu Per metre
1	168.3X2.6	811.10	357.00	568.00	Deleted	Deleted	Deleted	Deleted	760.00	352.00
2	168.3X3.2	945.30	357.00	568.00					760.00	352.00
3	168.3X4	1239.70	357.00	568.00					760.00	352.00
4	168.3X4.5	1393.20	357.00	576.60					760.00	352.00
5	219.1X2.6	1061.50	464.00	740.00					995.00	352.00
6	219.1X3.6	1459.70	464.00	740.00					995.00	352.00
7	219.1X4.5	1757.50	464.00	740.00					995.00	352.00
8	219.1X6.3	2433.30	464.00	740.00					995.00	352.00
9	273X3.6	1827.50	579.00	922.00					1276.00	352.00
10	273X4	2030.50	579.00	922.00					1276.00	352.00
11	273X5	2500.90	579.00	922.00					1276.00	352.00
12	273X6.3	3041.30	579.00	922.00					1276.00	352.00
13	323.9X4	2409.60	687.00	1076.80					1522.00	352.00
14	323.9X4.5	2498.70	687.00	1076.80					1522.00	352.00
15	323.9X5.6	3176.70	687.00	1076.80					1522.00	352.00
16	323.9X7.1	4189.70	687.00	1076.80					1522.00	352.00
17	355.6X4	2566.40	754.00	1198.70					1609.00	352.00
18	355.6X5	3244.40	754.00	1198.70					1609.00	352.00
19	355.6X5.6	3649.40	754.00	1198.70					1609.00	352.00
20	355.6X8	5000.80	754.00	1198.70					1609.00	352.00
21	406.4X4	2907.10	861.00	1357.80					1744.00	374.00
22	406.4X5	3378.60	861.00	1357.80					1744.00	374.00
23	406.4X6.3	4595.80	861.00	1357.80					1744.00	374.00
24	406.4X8.8	6352.30	861.00	1357.80					1744.00	374.00
25	457X4	3378.60	969.00	1357.80					1610.00	374.00
26	457X5	4189.70	969.00	1357.80					1610.00	374.00
27	457X6.3	5070.80	969.00	1357.80					1610.00	374.00

Sl.No.	Dia metre & thickness of pipe in mm	Rate for 2022 -23 in Rupees								
		Bare pipe per metre	CML Internal 6mm to 12mm thick per metre	CMC external 20mm thick per metre	Internal food grade epoxy coating 406 micr.per metre	External epoxy Coating 406 micr. per metre	CTE external double coating & double wrapping minimum 4mm thick per metre	External Polyethy line Sheathing per metre	CTE Wrapping Tape IS 15337:2013	Transportation in anywhere in Tamilnadu Per metre
28	457X10	8110.00	969.00	1357.80	Deleted	Deleted	Deleted	Deleted	1733.00	374.00
29	508X5	4663.50	1064.00	1463.20					1733.00	443.00
30	508X5.6	5136.20	1064.00	1463.20					1733.00	443.00
31	508X6.3	5745.40	1064.00	1463.20					1733.00	443.00
32	508X11	9867.40	1064.00	1463.20					1733.00	443.00
33	610X5.8	6421.10	1271.00	1747.40					2066.00	561.00
34	610X6.3	7096.80	1275.20	1751.60					2061.00	561.00
35	610X12.5	13514.60	1275.20	1751.60					2061.00	561.00
36	711X6.3	7974.50	1507.00	2086.40					2425.00	561.00
37	711X7.1	9054.10	1507.00	2086.40					2425.00	561.00
38	711X14.2	18245.80	1507.00	2086.40					2425.00	561.00
39	813X7.1	9190.60	1723.00	2363.30					2597.00	746.00
40	813X8	12468.80	1723.00	2363.30					2597.00	746.00
41	813X18	27030.40	1723.00	2363.30					2616.00	746.00
42	914X8	12839.00	1914.80	2527.60					3036.00	998.00
43	914X8.8	14190.30	1914.80	2527.60					3036.00	998.00
44	914X10	16014.50	1914.80	2527.60					3036.00	998.00
45	914X17.5	27706.10	1914.80	2527.60					3036.00	998.00
46	1016X8.8	15947.90	2139.10	2966.80					3565.00	1996.00
47	1016X10	18245.80	2109.10	2966.80					3565.00	1996.00
48	1016X20	35140.30	2139.10	2966.80					3565.00	1996.00
49	1067X8.8	16623.60	2199.00	3022.60					3639.00	1996.00
50	1067X10	18921.60	2199.00	3022.60					3639.00	1996.00
51	1067X11	20543.80	2199.00	3022.60					3065.00	1996.00
52	1118X8.8	17386.20	2365.40	3075.30					3725.00	1996.00
53	1118X10	19596.20	2365.40	3075.30					3725.00	1996.00
54	1118X11	20679.20	2365.40	3075.30					3725.00	1996.00
55	1219X10	21421.40	2584.00	3187.00					4213.00	1996.00
56	1219X11	23650.60	2584.00	2978.20					4213.00	1996.00
57	1219X12.5	27030.40	2584.00	2978.20					4199.00	1996.00
58	1422X12.5	31286.70	2928.60	3954.80					4613.00	1996.00
59	1422X14.2	35816.00	2928.60	3954.80					4613.00	1996.00
60	1626X14.2	40680.40	3446.00	4504.50					5733.00	2655.00
61	1626X16	46627.70	3446.00	4504.50					5733.00	2550.00
62	1829X14.2	46627.70	3590.00	5054.30					5920.00	2678.00
63	1829X16	52168.90	3590.00	5054.30					5920.00	2678.00
64	1829X17.5	57048.00	3590.00	5054.30					5920.00	2678.00

Sl.No.	Dia metre & thickness of pipe in mm	Rate for 2022 -23 in Rupees								
		Bare pipe per metre	CML Internal 6mm to 12mm thick per metre	CMC external 20mm thick per metre	Internal food grade epoxy coating 406 micr.per metre	External epoxy Coating 406 micr. per metre	CTE external double coating & double wrapping minimum 4mm thick per metre	External Polyethy line Sheathing per metre	CTE Wrapping Tape IS 15337:2013	Transportation in anyware in Tamilnadu Per metre
65	2032X16	58115.10	4224.50	5713.60	Deleted	Deleted	Deleted	Deleted	6686.00	2930.00
66	2032X17.5	62980.60	4224.50	5713.60					6686.00	3189.00
67	2032X20	71090.60	4224.50	5713.60					6686.00	3189.00
68	2235X17.5	70279.50	4730.90	6263.40					7318.00	3224.00
69	2235X20	81092.30	4730.90	6263.40					7309.00	3224.00
70	2235X22.2	87849.60	4730.90	6263.40					7309.00	3224.00
71	2540X20	94606.90	5384.00	7142.80					8457.00	3548.00
72	2540X22.2	101365.40	5384.00	7142.80					8457.00	3548.00
73	2540X25	114880.00	5384.00	7142.80					8457.00	3548.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamil nadu.
2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra.
This item should be included in the Estimate and BoQ as a separate item.
3) GST extra applicable as per GO

10.1 MS SPECIALS AS PER IS 1916

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees
1	Supply and Delivery of MS specials with inside lining/epoxy coating as per IS 13260-1993 and outside coating with cement mortar 20mm thick as per IS 1916-1989 and IS 7322-1985.	Kg	137.00
2	Supply and Delivery of MS specials as per IS 7322-1985 without inside lining and outside coating.	Kg	125.00
3	Supply and Delivery of MS specials without inside lining and outside coating but with anti rust painting as per IS 14589 -1999.	Kg	129.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

11.0 RCC NON PRESSURE SPUN PIPE AS PER IS 458/2003

RCC non pressure spun pipe with socket and spigot ends as per IS 458/2003 manufactured with sulphate resistant cement with 12 mm HI -alumina lining with rubber ring joints.					
Sl. No.	Internal Dia.	Unit	Rate for 2022-23 in Rupees		
			NP2 Class	NP3 Class	NP4 Class
1	200mm	One Metre	673.30	713.90	755.50
2	250mm	One Metre	776.30	837.70	879.30
3	300mm	One Metre	908.50	1023.00	1127.00
4	350mm	One Metre	1198.80	1758.70	1800.40
5	400mm	One Metre	1488.20	1918.00	2037.60
6	450mm	One Metre	1637.00	2310.30	2521.60
7	500mm	One Metre	2154.20	2617.30	2909.70
8	600mm	One Metre	2070.90	3009.70	3354.10
9	700mm	One Metre	3393.70	4592.60	4750.70
10	800mm	One Metre	3950.40	5490.70	5923.60
11	900mm	One Metre	3090.80	6332.60	6848.80
12	1000mm	One Metre	5169.10	7005.90	8095.60
13	1100mm	One Metre	6161.90	10009.40	11145.80
14	1200mm	One Metre	7070.50	12215.70	13451.00
15	1400mm	One Metre	8457.70	15121.30	17230.80
16	1500mm	One Metre	16625.10	18280.90	19071.80
17	1600mm	One Metre	19339.30	22485.30	23375.10

Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.

2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.

3) GST extra applicable as per GO

11.1 RUBBER GASKETS AS PER IS 5382/1985 (Reaffirmed 1998)

Sl. No.	Internal Dia	Unit	Rate for 2022-23 in Rupees		
			NP2 Class	NP3 Class	NP4 Class
1	200mm	Each	36.50	41.80	49.40
2	250mm	Each	41.80	49.40	58.00
3	300mm	Each	49.40	58.00	64.40
4	350mm	Each	58.00	70.90	78.40
5	400mm	Each	79.40	94.50	99.90
6	450mm	Each	102.00	112.80	113.80
7	500mm	Each	112.80	135.30	135.30
8	600mm	Each	135.30	169.70	176.10
9	700mm	Each	177.20	207.30	221.30
10	800mm	Each	203.00	242.70	250.30
11	900mm	Each	238.40	296.50	313.60
12	1000mm	Each	251.30	309.30	341.60
13	1100mm	Each	276.00	341.60	376.00
14	1200mm	Each	309.30	380.30	418.90
15	1400mm	Each	412.50	509.20	560.70
16	1500mm	Each	825.00	1062.40	1062.40
17	1600mm	Each	517.80	644.50	709.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

**12.0 CI D/F SLUICE VALVE WITH CAP/ WHEEL
AS PER IS 14846/2000 PN 1.0 WITH ISI MARKING AND WITH 5 YEARS
WARRANTY**

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	50 mm	Each	3942.00
2	65mm	Each	4525.00
3	80mm	Each	4671.00
4	100mm	Each	6510.00
5	125mm	Each	8174.00
6	150mm	Each	9634.00
7	200mm	Each	17370.00
8	250mm	Each	25836.00
9	300mm	Each	33281.00
10	350mm	Each	48752.00
11	400mm	Each	66035.00
12	450mm	Each	83347.00
13	500mm	Each	104658.00
14	600mm	Each	145529.00
15	700mm	Each	325550.00
16	750mm	Each	363048.00
17	800mm	Each	442866.00
18	900mm	Each	580708.00
19	1000mm	Each	858721.00
20	1100mm	Each	1039428.00
21	1200mm	Each	1224077.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

**12.1 C.I. D/F REFLUX VALVE AS PER I.S. 5312/2004/ PART I/ 84 PN 1.0
WITH BYE-PASS ARRANGEMENTS WITH ISI MARKING AND WITH 5
YEARS WARRANTY**

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	50 mm	Each	4398.00
2	65 mm	Each	4901.00
3	80 mm	Each	5952.00
4	100 mm	Each	7688.00
5	125 mm	Each	9738.00
6	150 mm	Each	11633.00
7	200 mm	Each	24496.00
8	250 mm	Each	36113.00
9	300 mm	Each	46885.00
10	350 mm	Each	74237.00
11	400 mm	Each	97537.00
12	450 mm	Each	136717.00
13	500 mm	Each	196919.00
14	600 mm	Each	254481.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.2 C.I. DOUBLE AIR VALVE AS PER ISI 14845/2000 AND WITH 5 YEARS WARRANTY

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	40 mm	Each	3942.00
2	50 mm	Each	4380.00
3	80 mm	Each	7712.00
4	100 mm	Each	9823.00
5	150mm	Each	19852.00
6	200mm	Each	28171.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.3 CI SINGLE AIR VALVE AS PER ISI 14845/2000 AND WITH 5 YEARS WARRANTY

Sl. No	Description	Unit	Rate for 2022-23 in Rupees
1	15mm	Each	1211.00
2	25 mm	Each	1741.00
3	40 mm	Each	2176.00
4	50 mm	Each	2411.00
5	80 mm	Each	3230.00
6	100 mm	Each	3517.00
7	150mm	Each	6259.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.4 KINETIC AIR VALVES FOR HANDLING MORE VOLUMES OF AIR IN PUMPING MAIN, DOUBLE ORIFICE KINETIC AIR VALVE CONFIRMING TO IS 14845 TAMPER PROOF DESIGN (PN-1) AND WITH 5 YEARS WARRANTY

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	11531.00
2	80mm	1 No.	14305.00
3	100mm	1 No.	17954.00
4	150mm	1 No.	29339.00
5	200mm	1 No.	52958.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.5 CI SLUICE VALVES NON RAISING SPINDLE TYPES TO PRESSURE RATING OF 1.6 PN TO BE USED IN PUMP HOUSES (LONG BODY/ LONG FACE TO FACE) Conforming to IS AND WITH 5 YEARS WARRANTY

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	100mm	1No.	9283.00
2	125mm	1No.	11498.00
3	150mm	1No.	14358.00
4	200mm	1No.	25592.00
5	250mm	1No.	34479.00
6	300mm	1No.	47588.00
	With spur gear arrangements		
7	350mm	1No.	72662.00
8	400mm	1No.	98418.00
9	450mm	1No.	121641.00
10	500mm	1No.	152657.00
11	600mm	1No.	216894.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.6 BUTTERFLY VALVES WITH TOP AND BOTTOM OF S.S. 410 SHAFT, WAFER LINER/ WITH REDUCTION GEAR UNIT (Conforming to BS 5155 & IS 13095/1996)

12.6.1 WAFER LINER

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	100mm	1 No.	3182.00
2	150mm	1 No.	4512.00
3	200mm	1 No.	7467.00
4	250mm	1 No.	14027.00
5	300mm	1 No.	16064.00

12.6.2 D/F GEAR OPERATED

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	400mm	1 No.	65480.00
2	450mm	1 No.	80891.00
3	500mm	1 No.	92444.00
4	600mm	1 No.	121972.00

Conforming to standard BS 5155 Butterfly valve with Body, Disc and retainer of Cast Iron Grade F.260 with EDPM rubber sleeve. Internal hardware shall be confirming to AISI 304. External hardware Carbon Steel shall be confirming to IS 1367. Top and bottom shaft stainless steel to AISI 410. Body and disc should be tested (Hydro test) to 15 kg/sq.cm and with 5 years warranty

12.7 NON RETURN VALVES

12.7.1 WAFER TYPE (DUAL PLATE CHECK VALVE) CONFORMING TO IS

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	100mm	1 No.	3839.00
2	150mm	1 No.	7815.00
3	200mm	1 No.	14985.00
4	250mm	1 No.	24991.00
5	300mm	1 No.	34901.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.7.2 DOUBLE FLANGED (DUAL PLATE CHECK VALVE)

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	400mm	1 No.	81746.00
2	450mm	1 No.	87210.00
3	500mm	1 No.	101005.00
4	600mm	1 No.	124817.00
5	700mm	1 No.	174211.00
6	800mm	1 No.	242677.00
7	900mm	1 No.	268017.00
8	1000mm	1 No.	351329.00
9	1100mm	1 No.	377609.00
10	1200mm	1 No.	403889.00

Construction conforming to standard API 594. Body should confirm cast iron Grade FG 260 (IS 210), Disc plates confirming to ASTM A216, hinch pin/ stop pin/ spring should be of SS to AISI 410/304. Body seat should be of EDPM rubber. The body should be tested to 15 kg/ sq.cm and seat should be tested to 10 kg/ sq.cm and with 5 years warranty

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.7.3 D/F NON RETURN VALVE (OUT DOOR USE)

CI Single Door/ Multi Door Non return valve conforming to IS 5312/2003(part I & II) to be fixed after Water meter/ Flow recorder on pumping main near Pump house with dash pot arrangement for 90% fast closing & 10% slow closing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	300mm	1 No.	62866.00
2	350mm	1 No.	95956.00
3	400mm	1 No.	115777.00
4	450mm	1 No.	160733.00
5	500mm	1 No.	210674.00
6	600mm	1 No.	301848.00
7	700/750mm	1 No.	507780.00
8	800mm	1 No.	589490.00
9	900mm	1 No.	1048104.00
10	1000mm	1 No.	1134513.00
11	1100mm	1 No.	1650415.00
12	1200mm	1 No.	1814874.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.8 DI SINGLE CHAMBER AIR RELEASE VALVE

Manufacture, Supply and Delivery of Tamper proof DI single chamber double orifice, triple function (ventilating, admitting and venting during operation) air release valves with pressure range from PN 1.0 to 2.5 with body and cover made of Ductile Iron of Grade GGG 40 or equivalent grade conforming to IS 1865 with Food Grade Epoxy Powder coating(EP-P) inside and for outside of colour blue RAL 5005. All internal parts such as float, shell etc., cover bolts, made of Austenitic alloy steel of SS AISI 304/316. The float shall be made of Polytetrafluoroethylene/ Austenitic alloy steel of AISI 304/316. Gaskets and seals of EPDM / Neoprene rubber for TWAD Board works anywhere in Tamil Nadu and with 5 years

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	each	12491.00
2	80mm	each	15880.00
3	100mm	each	17844.00
4	150mm	each	33589.00
5	200mm	each	36667.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.9 DI D/F GATE VALVES

Supply and delivery of DI D/F Gate sluice valves (soft seated) resilient seated soft sealing Gate Valves(Sluice Valves) with body Bonnet of Ductile cast iron of Grade GGG 40 or equivalent grade, Wedge fully rubber lined with EPDM replaceable spindle nut without gland packing and with 3 O- Ring protection on the shaft and seals of NBR and the valves should be of Vacuum tight and 100% leak proof with face to face dimensions as per BS 5163-89/ISI 14846-2000/DIN 3202 F4. All the valves should be with electrostatic powder coating both inside and out side with pocket less straight through body passage. All the valves are to be compatible for buried application with pressure rating PN 10/16 and with 5 years

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	7830.00
2	80mm	1 No.	10032.00
3	100mm	1 No.	13221.00
4	150mm	1 No.	20824.00
5	200mm	1 No.	33319.00
6	250mm	1 No.	47924.00
7	300mm	1 No.	72437.00
8	350mm	1 No.	211114.00
9	400mm	1 No.	226337.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.10 DI D/F BUTTERFLY VALVES

Supply and delivery of DI D/F Butterfly Valves with GGG 40 or equivalent grade as per IS3896 (Part 2) 1985 and subsequent revisions Double eccentric disc with renewable soft seal on the disc and body seat face of Stainless Steel / nickel weld overlay micro finished with powder or liquid Epoxy coating with minimum thickness of 250 microns applied on both body and disc inside and outside Face to Face dimensions as per AWWA C 504 or BS 5155 or IS 13095 and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees	
			PN 10	PN 16
1	400mm	1 No.	155648.00	178721.00
2	450mm	1 No.	196206.00	199935.00
3	500mm	1 No.	201841.00	201841.00
4	600mm	1 No.	264540.00	264540.00
5	700mm	1 No.	423707.00	497582.00
6	800mm	1 No.	531254.00	566168.00
7	900mm	1 No.	699659.00	740432.00
8	1000mm	1 No.	901067.00	928167.00
9	1100mm	1 No.	1067400.00	1067400.00
10	1200mm	1 No.	1243639.00	1243639.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.11 DI Non - Return Valve

Manufacture, Supply and Delivery of DI D/F Slanted seat Swing Check Valve. Body of ductile cast iron of Grade GGG 40 or equivalent grade and disc of ductile cast iron GGG 40 or equivalent grade with fully encapsulated EPDM rubber, where both faces can be used. Electrostatic epoxy powder/liquid coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns. The EPDM rubber & Epoxy Powder should be approved by W 270. (EP-P) it is a resi-coat powder approved for drinking water application, applied through fusion bonding process by dipping the shot-blasted casted components heated up to 200 deg C). Face to face dimensions as per EN558-1, series 48 and flange connections as per EN 1092-2/IS 1538 and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	40mm	1 No.	10767.00
2	50mm	1 No.	10919.00
3	65mm	1 No.	12409.00
4	80mm	1 No.	15182.00
5	100mm	1 No.	12644.00
6	125 mm	1 No.	28364.00
7	150mm	1 No.	34827.00
8	200 mm	1 No.	37815.00
9	250mm	1 No.	96145.00
10	300mm	1 No.	122167.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.12 DI Wafer type Butterfly Valve

Manufacturing, supply and delivery of resilient seated wafer type butterfly valve in accordance with EN 593, centric disk mounted in three maintenance-free bearing bushes, tight in both flow directions, Replaceable rubber sleeve with integrated seal for functionally reliable use for flared flanges, welding flanges, PE flanges as well as loose flanges with V-collar, Stable seat due to collar with vulcanized support ring. Vacuum tight upto 1 Torr. Face to face length acc.to 558-1, basic series 20(DIN 3202/k1). With Electrostatic epoxy powder coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns. The EPDM rubber & Epoxy Powder should be approved by W 270.(EP-P it is resi-coat powder approved for drinking water application, applied through fusion bonding technology process by dipping the shot-blasted casted components heated upto 200 deg C) and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	40mm	1 No.	10082.00
2	50mm	1 No.	10271.00
3	65mm	1 No.	10419.00
4	80mm	1 No.	11343.00
5	100mm	1 No.	13307.00
6	125 mm	1 No.	15084.00
7	150mm	1 No.	22745.00
8	200 mm	1 No.	26888.00
9	250mm	1 No.	44897.00
10	300mm	1 No.	75068.00
11	350mm	1 No.	114664.00
12	400mm	1 No.	156498.00
13	450mm	1 No.	261961.00
14	500mm	1 No.	268229.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.13 DI Disk Check Valve

Manufacture, supply and delivery of DI D/F Slanted seat Tilting Disc Swing Check Valve in single piece body and closed eye disc construction. Hemispherical disc with 59 degree inclination for fast open and closing. Corrosion proof and wear resistant(triple offset) disc face & body seat face, both made of fusion bonded Nickel Chromium weld overlay and microfinished. Body and disc of ductile cast iron GGG-40 or equivalent grade, medium free(dry) shafts of stainless steel and bearings of Zinc-free Bronze, Valve should have provision for internal damping unit for reducing the effects of water hammer/surge, if required at later stage. Electrostatic epoxy powder/liquid coating(EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 150 microns. The EPDM rubber & Epoxy Powder should be approved by W 270.(EP-P it is a resi-coat powder approved for drinking water application, applied through fusion bonding technology process by dipping the shot-blasted casted components heated upto 200deg C). Face to face dimensions as per EN 558-1 series 14 and flange connections as per EN 1092-2/IS and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees	
			PN 10	PN 16
1	200mm	1 No.	397866.00	399907.00
2	250mm	1 No.	400474.00	402528.00
3	300mm	1 No.	411742.00	411742.00
4	350mm	1 No.	455183.00	455183.00
5	400mm	1 No.	458604.00	458604.00
6	450mm	1 No.	558616.00	599248.00
7	500mm	1 No.	559260.00	603872.00
8	600mm	1 No.	743809.00	760089.00
9	700mm	1 No.	1639763.00	1686736.00
10	800mm	1 No.	1906064.00	1982307.00
11	900mm	1 No.	2170471.00	2218957.00
12	1000mm	1 No.	2655583.00	2703093.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.14 DI Diaphragm Type Flow Control Valve

12.14.1 DI Altitude Control Valve (PN10/16) with the function to prevent water level in a tank from exceeding a set level. The set level can be changed as per the requirement.

"Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Altitude Control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270. (EP-P)/WRAS & NSF."

Pilot valve system having Stainless Steel / Brass fittings as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304 / copper / reinforced plastic rated PN16 Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve / speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	102030.00
2	65mm	1 No.	104621.00
3	80mm	1 No.	115257.00
4	100mm	1 No.	143656.00
5	150mm	1 No.	188897.00
6	200 mm	1 No.	292122.00
7	250mm	1 No.	359186.00
8	300mm	1 No.	556864.00
9	350mm	1 No.	826047.00
10	400mm	1 No.	1405210.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.14.2 DI Pressure Reducing Valve (PN10/16) with the function to reduce downstream pressure to set point irrespective of upstream fluctuations. The downstream pressure set point can be changed as per the requirement.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Reducing valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of SS 304 as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	63230.00
2	65mm	1 No.	65815.00
3	80mm	1 No.	77887.00
4	100mm	1 No.	87818.00
5	150mm	1 No.	124420.00
6	200 mm	1 No.	202100.00
7	250mm	1 No.	278062.00
8	300mm	1 No.	455390.00
9	350mm	1 No.	644229.00
10	400mm	1 No.	1254491.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.14.3 DI Flow rate Limit control Valve (PN10/16) with the function to limit the flow rate to a set point. In case the downstream demand increases beyond the set limit, the valve closes down to bring the flow back to set limit. The valve shall have an orifice plate and the orifice diameter is designed based on the set point as per the requirement and installed downstream of the control valve.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Flow rate Limit Control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270. (EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1, orifice plate shall be as per the set point of flow rate and all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-22 in Rupees
1	50mm	1 No.	82050.00
2	65mm	1 No.	84640.00
3	80mm	1 No.	94763.00
4	100mm	1 No.	101468.00
5	150mm	1 No.	157853.00
6	200 mm	1 No.	247444.00
7	250mm	1 No.	314416.00
8	300mm	1 No.	490284.00
9	350mm	1 No.	656569.00
10	400mm	1 No.	1296294.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.14.4 DI Pressure Sustaining / Relief Valve (PN10/16) with the function to relieve excess pressure in the downstream pressure to set point irrespective of upstream fluctuations. The downstream pressure set point can be changed as per the requirement.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Sustaining / Relief valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304/ Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	63195.00
2	65mm	1 No.	66843.00
3	80mm	1 No.	77887.00
4	100mm	1 No.	87818.00
5	150mm	1 No.	124420.00
6	200 mm	1 No.	202100.00
7	250mm	1 No.	278062.00
8	300mm	1 No.	455390.00
9	350mm	1 No.	644229.00
10	400mm	1 No.	1254491.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.14.5 DI Pump control Valve (PN10/16) with the function to open / close the pump discharge to the downstream network gradually the start-up / shut-off of a pump to protect the pumping assembly.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pump Control Valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings as per standard parts according to DIN EN 12 266-1 and 3 way NO 24 V AC 50/60 Hz Solenoid, all the external control tubing of SS 304/ Copper/ reinforced plastic rated PN16 with Position indicator, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	109708.00
2	65mm	1 No.	112298.00
3	80mm	1 No.	122936.00
4	100mm	1 No.	133382.00
5	150mm	1 No.	245687.00
6	200 mm	1 No.	304752.00
7	250mm	1 No.	371066.00
8	300mm	1 No.	569814.00
9	350mm	1 No.	704222.00
10	400mm	1 No.	1310295.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.14.6 DI Pressure Reducing and Flow Limit Control Valve (PN10/16) with the function to reduce higher upstream pressure into a preset lower downstream pressure and to not allow flow rate in the line to exceed beyond the defined set point. The flow orifice diameter is designed based on the set point as per the design requirement. The set point can be changed to a maximum of +10%.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Reducing and flow limit control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.” Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1 and Stainless steel 316 orifice plate shall be as per the set point of flow rate, all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	106472.00
2	65mm	1 No.	112507.00
3	80mm	1 No.	126302.00
4	100mm	1 No.	134045.00
5	150mm	1 No.	212195.00
6	200 mm	1 No.	273545.00
7	250mm	1 No.	339037.00
8	300mm	1 No.	521193.00
9	350mm	1 No.	757498.00
10	400mm	1 No.	1327201.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.14.7 DI Altitude Control and Flow Control Valve (PN10/16) with the function to ensure that water in tank does not exceed a certain level and the same time not allow flow rate to exceed set point. The Hydraulic Valve trim connection shall have two metal points, one for Altitude control and Flow-rate control function. The valve shall use an orifice plated on downstream side to limit the flow rate. The set level can be changed to a maximum of +10%.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Altitude Control and Flow Control Valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of SS 304 for altitude pilot as per standard parts according to DIN EN 12 266-1, the stainless steel 316 of orifice plate and dimension of orifice as per the flow rate set point, all the external control tubing of SS 304 / copper / reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve / speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	131867.00
2	65mm	1 No.	134119.00
3	80mm	1 No.	146582.00
4	100mm	1 No.	153578.00
5	150mm	1 No.	224175.00
6	200 mm	1 No.	275636.00
7	250mm	1 No.	333851.00
8	300mm	1 No.	505681.00
9	350mm	1 No.	720207.00
10	400mm	1 No.	1237466.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.15 DI Plunger type flow control Valve

"Manufacturing, supply and delivery of DI D/F Plunger type(Control valve) with one piece body of ductile cast iron of grade GGG-40, all internal parts of stainless steel. Piston guides of bronze welded overlay & micro-finished and bearing bush of zinc free Bronze. Valve/profile sealing seat shall be in the no-flow zone. Double sealing effect between the body and the plunger shall be by Quadring Seal (twist free operation). The valve shall be designed to operate smoothly throughout the specified flow range without cavitation. Corrosion protected medium free bearing in the body by way of double O-ring seal and encapsulated shaft seal. There shall be no obstacles in the main flow passage except the plunger and the attached control cylinders. Plunger shall be by means of stainless steel crank drive mechanism. Face-to-face dimensions EN558-1 basic series 15 and 1.5X DN from DN500 and flange connections as per EN1092-2/ISO 7005[DIN]" and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	150mm	1 No.	481058.00
2	200mm	1 No.	685418.00
3	250mm	1 No.	830341.00
4	300mm	1 No.	1084390.00
5	400 mm	1 No.	1718974.00
6	450mm	1 No.	2346954.00
7	500 mm	1 No.	2992117.00
8	600mm	1 No.	3883201.00
9	700mm	1 No.	4534731.00
10	800mm	1 No.	5435703.00
11	900mm	1 No.	7573788.00
12	1000mm	1 No.	8816497.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.16 DI Surge Control Valve

“Manufacturing, supply and delivery of Surge anticipating Relief valves against power failure surges or pressure waves caused by velocity changes, quick opening relief easily adjustable pressure setting. The valve should remain closed when line pressure is between the set-points of the two pilots. The valve should open initially when line pressure drops below the setting of the low-pressure pilot to anticipate surges associated with a pump stopping. The valve will also continue to react and remain open when the return high-pressure wave is above the setting of the high-pressure pilot or open when inlet pressure exceeds a pre-determined set-point at which time the valve opens quickly. With high speed discharge, with flange dimension to EN 1092-2/ ISO 7005[DIN]. Body and cover in ductile cast iron of Grade GGG 40 or equivalent grade. All internal parts & all cover bolts of austenitic alloy steel and gaskets and seals of EPDM of grade W 270(approved for drinking water) with Electrostatic epoxy powder coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns” and with 5 years warranty

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	50mm	1 No.	99090.00
2	80mm	1 No.	108312.00
3	100mm	1 No.	137288.00
4	150mm	1 No.	195346.00
5	200 mm	1 No.	287195.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.17 OHT FLOW CONTROL VALVE

Supply and delivery of the following sizes of OHT flow control valve with female BSP treaded ends, (20mm length) with Stainless Steel Body as per ANSI 202 Grade, Plug, Flange – Nylon 66, (to be tested at NABL accredited lab.) Triangular notch type flow control path with opening reference scale arrangements for flow notch and Upstream & Downstream pressure checking spring loaded mouth arrangements. Working Pressure 10 KSC, (FCRI, Palgaut pressure test and flow test to be furnished) and with 5 years warranty

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
a	40mm (1 lpm to 400lpm adjustable type arrangements)	Each	5416.00
b	100mm (20 lpm to 2000 lpm adjustable type arrangements)	Each	19993.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

13.0 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 600MM length

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees	
			SP1 Class	SP2 Class
1	100mm	Each	114.00	123.00
2	150mm	Each	198.00	214.00
3	200mm	Each	299.00	326.00
4	250mm	Each	486.00	529.00
5	300mm	Each	758.00	827.00

13.1 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1000MM length with Rubber Gasket

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees	
			SP1 Class	SP2 Class
1	150mm	Each	469.00	535.60
2	200mm	Each	704.00	768.20
3	250mm	Each	1321.00	1435.10

13.2. SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1200MM length with Rubber Gasket

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees	
			SP1 Class	SP2 Class
1	150mm	Each	594.30	644.91
2	200mm	Each	847.10	917.51
3	250mm	Each	1600.50	1732.12

- Note : 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 2) Unloading, stacking at stock yard and Conveyance from stock yard to site (maximum of 8Km radius) are extra. This item should be included in the Estimate and BoQ as a separate item.
 3) GST extra applicable as per GO

14.0 SULPHATE RESISTANT CEMENT AS PER IS 12330/1988

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees
	Refer: RATES OF OTHER CONSTRUCTION MATERIALS, SI.No: 20		

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) The rate is subject to revision by PWD.

3) GST extra applicable as per GO

**15.0 FIBER REINFORCED CONCRETE FRAME AND COVER
AS PER IS 12592/2002 , PART 1 & 2**

Sl.No.	Description	Rate for 2022 -23 in Rupees	
	Supply and delivery of following sizes of FRC Manhole Covers / Frames to stores on as per IS 12592:2002 to its latest revision with reinforcement details for covers and frames.	Heavy duty	Extra Heavy duty
1	450mm dia FRC manhole cover to suit 450 mm clear opening manhole frame	818.00	943.00
2	450mm dia FRC manhole frame to have clear opening of 450mm dia to suit 450mm dia FRC Cover	1021.00	1181.00
3	600mm dia FRC manhole cover to suit 600 mm clear opening manhole frame	1054.00	1216.00
4	600mm dia FRC manhole frame to have clear opening of 600mm dia to suit 600mm dia FRC Cover	1505.00	1739.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

**16.0 WATER METER CONFORMING TO IS 2373 / ISO 4064 &
DIRT BOX STRAINER**

Supply and delivery of Woltman model with removal mechanism water meters, (Bulk type) conforming to ISO 4064 part I, II, III Class B and IS-2373 with life cycle test certificate from FCRI/ NABL accredited lab. The watermeter shall have magnetic drivers or mechanical drivers and shall be versatile for installation in any position. The meters shall be hydrodynamically, hydrostatically balanced. The runner, runner chamber, pointers of the meter shall be as per ISO 4064 specification. Dry dial excavated counter housing fully protected against flooding ensuring easy reading in all climates.

Sl.No	Description	Unit	Rate for 2022-22 in Rupees		
			Water meter	Dirt Box	Erection Charges
1	50mm	Each	9661.00	3133.00	3291.00
2	80mm	Each	12017.00	5074.00	4106.00
3	100mm	Each	12770.00	6223.00	6391.00
4	150mm	Each	18677.00	10346.00	7516.00
5	200mm	Each	23248.00	12510.00	9363.00
6	250mm	Each	50499.00	26887.00	10615.00
7	300mm	Each	107784.00	47898.00	11373.00
8	400mm	Each	191291.00	79730.00	11579.00
9	500mm	Each	222614.00	115969.00	11606.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 2) GST extra applicable as per GO
 3) Erection charges includes earth work excavation,labour charges, cutting and threading, conveyance,welding and hire charges for tools and plants etc., complete.

16.1 FULL BORE ELECTROMAGNETIC FLOW METER

Electromagnetic Flow Meter shall be a velocity sensing Electromagnetic type, microprocessor based signal converter, sealed housing, flanged tube meter for 1.0 Mpa working pressure, manufactured to highest standard available for mag-meters, equipped with minimum six digit digital totalizers, reading in different units (Kiloliters / Cubic meter) and shall be accurate within 0.5% of Measured value, shall operate within a range of 0.3 m/sec to 4 m/sec and be constructed as follows: Meter tube (Sensor) shall be fabricated from stainless steel tube and use class PN10 flat face carbon steel flanges in accordance with IS 1538. These flanges shall be welded to the flow tube. The internal and external of the meter tube shall be blasted to near white and lined with hard rubber/ Polyurethane/ PTFE preferably by SBR or EPDM. Meter tube shall have a constant nominal inside diameter offering no obstruction to the flow. The accuracy should be inclusive of linearity, hysteresis, repeatability, temperature and pressure effects. Coil Housing shall be fabricated from stainless steel (SS304)/ Die cast Aluminium/ Carbon steel with anticorrosive paint for corrosion resistance and welded to the tube providing a completely sealed environment for all coils, electrode connections and wiring harness capable of submerged or buried operation with IP68 Protection. Signal Converter shall be pulsed DC coil excitation type with auto zeroing. The signal converter shall be remotely mounted away from the meter. The converter shall indicate direction of flow and provide a flow rate indication and a total of flow volume for both forward and reverse directions. The converter shall provide an isolated 4-20 mA output into minimum 500-ohm load and a frequency output of a maximum of 0-10 KHZ and a scaled pulse output. The microprocessor based signal converter shall have a self-diagnostic test mode and a backlit display that continuously displays "Rate of Flow" and "Total Volume". Converter shall be supplied with a programmable low flow drop out, higher flow and empty pipe zero return. The signal converter housing should be die-cast aluminum with glass window. The converter cum transmitter should be fully programmable from the front facia. The programming should be user friendly, self-prompting menu driven. Flow meter test calibration certificate from ECRI flow test lab / NABL accredited lab to be furnished.

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	10MM	1 No.	57178.00
2	25 MM	1 No.	45787.00
3	50 MM	1 No.	51053.00
4	80 MM	1 No.	81757.00
5	100 MM	1 No.	100345.00
6	125 MM	1 No.	105026.00
7	150MM	1 No.	117500.00
8	200MM	1 No.	145905.00
9	250MM	1 No.	181019.00
10	300 MM	1 No.	206265.00
11	350MM	1 No.	255438.00
12	400MM	1 No.	309628.00
13	450MM	1 No.	357320.00
14	500 MM	1 No.	408575.00
15	600MM	1 No.	468739.00

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
16	700 MM	1 No.	547247.00
17	800MM	1 No.	612653.00
18	900 MM	1 No.	689169.00
19	1000 MM	1 No.	871025.00
20	1200 MM	1 No.	1251178.00
21	1400MM	1 No.	1498666.00
22	1600MM	1 No.	1705364.00
23	1800 MM	1 No.	2264036.00
24	2000 MM	1 No.	3251408.00
25	2200 MM	1 No.	3403392.00
26	2400MM	1 No.	3745094.00
27	2600 MM	1 No.	4178510.00
28	2800 MM	1 No.	4639178.00
29	3000 MM	1 No.	4992410.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

17.0 HDPE TANK

Sl.No.	Description	Unit	Rate for 2022 -23 in Rupees
1	Supply and delivery and fixing of HDPE tank as per IS 12701 / 1996 including loading, unloading, transportation and labour charges for fixing of the GI pipes and specials for pipe connection works including cutting, threading and fixing charges etc.,		
	200 litres	1 No.	1771.00
	500 litres	1 No.	4016.00
	1000 litres	1 No.	8111.00
	2000 litres	1 No.	18050.00
	5000 litres	1 No.	44278.00
	10000 litres	1 No.	94084.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu
2) GST extra applicable as per GO

18.0 MS KIOSK

Sl. No.	Description	Unit	Rate for 2022 -23 in Rupees
1	Supply and delivery of MS Kiosk of size 0.75m x 0.45m x 0.75m made up of MS angle of size 50mm x 50mmx 4mm alround covered with 16 gauge MS sheet and kiosk door made up of MS plates of size 25 mm x 3 mm including cutting, welding, grinding, locking arrangements and labour charges etc.,	1 No.	9072.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu
2) GST extra applicable as per GO

19.0 MS LADDER

SI No.	Description	Unit	Rate for 2022 -23 in Rupees
1	Supply and Delivery and fixing of outside MS Ladder of 45cm clear wide made out of 50 mm x 50mm x 6mm MS angle for sides and steps in 16 mm MS plain rods fixed at 30cm C/C welded jointed etc ., providing with suitable side supports, clamps and locking arrangements provided with two coats of approved enamel paint over one coat of redoxide paint , for providing access to roof top of OHT of suitable inclined length , including bottom anchorage and transportation and as directed by TWAD Board officers. The rate includes concrete bed block in CC 1:2:4 using 20mm HBGS at top and bottom of suitable size with necessary anchor bolts.		
	For OHT Capacities		
a	1. 10000 litres with - 7.5m staging height	Each	27238.00
b	2. 20000 litres with - 7.5m staging height	Each	27238.00
2	Fabrication, supply, delivery and fixing of outside MS Ladder of 45cm clear wide made out of 50 mm x 50mm x 6mm MS angle for both sides and for steps at 30cm C/C welded jointed etc ., for I staging from GL to 1st level brace (weight 4.5kg/m) IInd and IIIrd staging upto floor slab and IVth staging from floor slab to roof top. Supply, delivery and fixing of 32 mm GI pipes medium for hand rails from I stage to IVth stage. RCC M30 Grade mix for Landing slab 5 nos. at Ground Level- 1No. and above Ground Level - 4Nos. Supply and fixing of 32mm GI pipe medium for hand rails for the Landing slab. Supplying and fixing of MS Base plate of 100mm X 100mm X 6mm thick for fixing Anchore fastener bolt for fixing of hand rails at Landing slab and MS Ladder providing locking arrangements with two coats of approved enamel paint over one coat of red oxide paint as per approved Type Design and as directed by TWAD board officers.		
	For OHT Capacities		
a	30000 litres capacity at 12.0m staging height	Each	133589.00
b	40000 litres capacity at 12.0m staging height	Each	133589.00
c	50000 litres capacity at 12.0m staging height	Each	133589.00
d	60000 litres capacity at 12.0m staging height	Each	133589.00
e	100000 litres capacity at 12.0m staging height	Each	133589.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu
2) GST extra applicable as per GO

20.0 MS DOOR / WINDOW/VENTILATOR

Sl.No.	Description of Work	Unit	Rate for 2022 -23 in Rupees.
	Supply and Delivery Fabrication of MS doors and windows with outer frame and shutter frame in MS angle of size 40mm x 40mm x 6 mm with MS flat 25mm x 25mm x 6mm and MS sheet of 18 gauge including ventilating arrangements using 20mm square MS rods with locking arrangements including two coats of approved enamel paint over coat of red oxide including cost of angles, plates, sheets, fabrication charges, cost of hold fast and transportation charges etc., complete.		
i	Fully panelled Double leaf - Door	1.00 x 2.50 m	7960.00
ii.	Fully panelled Double leaf - Door	1.00m x2.10 m	6942.00
iii.	Fully panelled Double leaf - Door	1.00m x2.00 m	5087.00
iv.	Fully panelled Single leaf - Door	0.75 m x2.10 m	4251.00
v	Fully panelled Single leaf - Door	0.90 m x 2.00 m	4538.00
vi.	Fully panelled Single leaf - Door	0.90 m x 2.10 m	5026.00
vii	Fully panelled Single leaf - Door	1.00 m x2.00 m	4728.00
viii	Fully panelled Double leaf - Window (without Ventilator)	1.20 m x0.90 m	3772.00
ix	Fully panelled Double leaf - Window (without Ventilator)	0.60 m x 0.90 m	2753.00
x	Ventilator	0.45 m x0.60 m	1655.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu
2) GST extra applicable as per GO

21.1 REPLACEMENT ELECTRODE FOR WATER DISINFECTION EQUIPMENT USING SILVER IONIZATION

Supply and delivery of electrode assembly suitable for water disinfection equipment using silver ionization process using pure silver metal electrode and fixed on PVC/Nylon sheets and nuts with electrical leads for the following capacities. The supply should be with the quality test certificate from approved organisations.

SI.No	Capapcity LPH	Life of electrodes in million litre at dosage		Rate for 2022 -23 in Rupees.
		0.01mg/lt	0.005mg/lt	
1	1000			2193.90
2	2000			3658.10
3	3000	6	12	5578.60
4	5000	8	16	6197.30
5	10000	9	18	6816.00
6	15000	15	30	9296.50
7	25000	30	60	24491.80
8	50000	60	120	49570.60
9	100000	120	240	99141.30
10	200000	240	480	140106.00
11	300000	360	720	296863.90
12	400000	480	960	396565.20
13	500000	600	1,200	495707.40

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

21.2 ELECTRO CHLORINATOR BASED ON COMMON SALT

Supply, Delivery, erection and commissioning of Batch type electro chlorinator using common salt as raw material, consisting of electrolyzers cell made of Titanium with coating mixed metal oxide such as Anabium, Cadmium, etc, capable of producing sodium hypochlorite solution within time span of 8 hours, having adjustable metering cum dosing pump capable of dozing the prepared sodium hypochlorite solution in water supply system with sensor having auto shut down when the storage if FRP tank gets empty. The storage vessel and electrolyzer tank (hypo procesing tank) must be made of FRP tank coated inside with hypothalic -BIS standard, having capacity to store required quantity of hypochlotrite solution, water and common salt for electrolysis process respectively. The eelectrochlorinator must have power source or control module for producing necessary DC current for electrlyser process from 440v, 3 phase / single phase AC supply and must have auto cut off after batch time of 8 hours. For all power connection, copper cables should be used.

Sl.No.	Capacity in litres per day	Rate for 2022 -23 in Rupees.
1	10,000-25,000	42882.70
2	25,001-50,000	54566.00
3	50,001-1,00,000	69102.00
4	1,00,001-1,50,000	93433.00
5	1,50,001-2,00,000	106708.00
6	2,00,001-2,50,000	129204.00
7	2,50,001-3,00,000	143046.00
8	3,00,001-3,50,000	160520.00
9	3,50,001-4,00,000	168426.00
10	4,00,001-4,50,000	178808.00
11	4,50,000-5,00,000	180538.00
12	5,00,001-5,50,000	216681.00
13	5,50,001-6,00,000	244172.20
14	6,00,001-6,50,000	275931.50
15	6,50,001-7,00,000	307690.70
16	7,00,001-7,50,000	330914.00
17	7,50,001-8,00,000	354137.30
18	8,00,001-8,50,000	381628.50
19	8,50,001-9,00,000	409119.80
20	9,00,001-9,50,000	436609.90
21	9,50,001-10,00,000	442867.00
22	10,00,001-15,00,000	572720.70
23	15,00,001-20,00,000	650169.00
24	20,00,001-25,00,000	750000.00

Sl.No.	Capacity in litres per day	Rate for 2022 -23 in Rupees.
25	25,00,001-30,00,000	853664.00
26	30,00,001-35,00,000	950000.00
27	35,00,001-40,00,000	1049776.00
28	40,00,001-45,00,000	1120000.00
29	45,00,001-50,00,000	1170081.00
30	50,00,001-55,00,000	1250000.00
31	55,00,001-60,00,000	1519455.00
32	60,00,001-65,00,000	1560000.00
33	65,00,001-70,00,000	1637012.00
34	70,00,001-75,00,000	1720000.00
35	75,00,001-80,00,000	1807690.00
36	80,00,001-85,00,000	1900000.00
37	85,00,001-90,00,000	2007263.00
38	90,00,001-95,00,000	2100000.00
39	95,00,001-100,00,000	2276052.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

22.0 PROVIDING EPOXY COATING TO REINFORCEMENT STEEL BARS

SI No.	Description	unit	Rate for 2022 -23 in Rupees.
	Providing Fusion Bonded Epoxy coating not less than 175microns thickness and upto 300 microns to reinforcement of all diameters as per IS 13620/1993 including testing of coating at plant.The cost is inclusive of cost on account of careful handling, PVC coated binding wires, touchup material supplied by coating agency, repair work, loading, unloading and strengthening of bent rods etc., complete as per specification and as directed by the Engineer in charge.		
a.	for 8mm to 16mm	MT	13917.00
b.	for 20mm to 32mm	MT	10854.00

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

23.0 MECHANICAL JOINT COLLARS

SI No.	Description	unit	Rate for 2022 -23 in Rupees.
	Supply and Delivery of MJ Collars.		
1	100mm	Each	2815.00
2	150mm	Each	4477.00
3	200mm	Each	5843.00
4	250mm	Each	8134.00
5	300mm	Each	10560.00
6	350mm	Each	15076.00
7	400mm	Each	17957.00
8	450mm	Each	20771.00
9	500mm	Each	26517.00
10	600mm	Each	33837.00

- Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu
2) GST extra applicable as per GO

III (B) RATES FOR PUMPSETS

For individual specifications for various items regarding pumpsets & Electrical Equipments, the specifications already given in the manual for pumpsets should be followed

**1.0 CENTRIFUGAL MONOBLOC PUMPSET AS PER
IS 9079/2002 WITHOUT PANEL BOARD THREE PHASE**

Supply and delivery of Electric Monoset centrifugal pump conforming to IS 9079:2002 as amended from time to time, with CI FG 200 Casing , hydraulically and dynamically balanced Bronze grade LTB-2 impeller, impeller ring and casing ring, stainless steel shaft capable of discharging required quantity of water against a total head noted below due to all causes. Pump shall of BEE 3 Star Rated and capable of discharging the specified quantity at the head noted at the minimum NPSHA at site conditions. The shut off head shall be atleast 25% over and above the head at duty point. The pump shall be suitable for operation in AC three phase , 415 V+/- 10% , 50 Hz +/- 5%. Squirrel cage induction motor for continuous operation. The speed of the Pump and Motor shall be not less than 2700 to 2900 RPM respectively.

Sl.No	Duty lpmxm	Unit	Rate for 2022-23 in Rupees
1	100x20	1 No	12997
2	150x20	1 No	19148
3	200x20	1 No	19897
4	250x20	1 No	21377
5	300x20	1 No	21377
6	350x20	1 No	21377
7	400x20	1 No	21377
8	450x20	1 No	21377
9	500x20	1 No	26413
10	700x20	1 No	26710
11	50x35	1 No	20666
12	100x35	1 No	23485
13	150x35	1 No	28404
14	200x35	1 No	31976
15	250x35	1 No	35931
16	300x35	1 No	35931
17	350x35	1 No	35931
18	400x35	1 No	33840
19	450x35	1 No	33840
20	500x35	1 No	33840
21	50x50	1 No	31974
22	100x50	1 No	35931
23	150x50	1 No	35931
24	200x50	1 No	38420
25	250x50	1 No	38420
26	300x50	1 No	38420

- Note: 1) The above rates are basic rates only.
2) GST extra applicable as per G.O
3) Duty of the Pumpset is the criteria for the rates.

**2.0. SINGLE PHASE SUBMERSIBLE PUMPSET AS PER IS 8034/2002
WITHOUT PANEL BOARD**

Supply and delivery of clear water vertical wet type submersible pump conforming to IS 8034/2002 and as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor suitable for operation in AC single phase 230 V +/- 10 %, 50 HZ +/- 5 %

Sl. No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
1	15x40	1 No	22431
2	15x50	1 No	22431
3	15x60	1 No	23323
4	15x70	1 No	26949
5	15x80	1 No	26949
6	15x90	1 No	26949
7	15x100	1 No	30743
8	15x125	1 No	34926
9	15X150	1 No	37593
10	20x40	1 No	23323
11	20x50	1 No	23323
12	20x60	1 No	23323
13	20x70	1 No	26949
14	20x80	1 No	26949
15	20x90	1 No	27448
16	20x100	1 No	32733
17	20X125	1 No	34926
18	20X150	1 No	37380

- Note: 1) The above rates are basic rates only.
2) GST extra applicable as per G.O.
3) Duty of the Pumpset is the criteria for the rates.

3.0 THREE PHASE SUBMERSIBLE PUMPSET SUITABLE FOR 100MM DIA BOREWELL AS PER IS 8034/2002 WITHOUT PANEL BOARD

Supply and delivery of clear water vertical wet type submersible pump suitable for 100mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 /1995 and as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 %

Sl. No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
1	30x40	1 No	22838
2	30x50	1 No	22972
3	30x60	1 No	24047
4	30x70	1 No	25390
5	30x80	1 No	29017
6	30x90	1 No	31570
7	30x100	1 No	31570
8	30x125	1 No	34660
9	40x40	1 No	22704
10	40x50	1 No	23913
11	40x60	1 No	23913
12	40x70	1 No	31167
13	40x80	1 No	32510
14	40x90	1 No	35063
15	40x100	1 No	35063

- Note: 1) The above rates are basic rates only.
 2) GST extra applicable as per G.O.
 3) Duty of the Pumpset is the criteria for the rates.

3.1 THREE PHASE SUBMERSIBLE PUMPSET SUITABLE FOR 150MM DIA BOREWELL AS PER IS 8034/2002 WITHOUT PANEL BOARD

Supply and delivery of clear water vertical wet type submersible pumpset suitable for 150mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 /1995 as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 %

Sl.No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
1	50x40	1 No	31995
2	50x50	1 No	34734
3	50x60	1 No	34734
4	50x75	1 No	39433
5	50x100	1 No	46579
6	50x125	1 No	51575
7	50x175	1 No	63167
8	50x200	1 No	72581
9	50x225	1 No	75383
10	50x250	1 No	81815
11	50x275	1 No	97069
12	75x40	1 No	34160
13	75x50	1 No	35256
14	75x60	1 No	36988
15	75x75	1 No	42179
16	75x100	1 No	51523
17	75x125	1 No	54210
18	75x150	1 No	63167
19	75x175	1 No	65190
20	75x200	1 No	71294
21	75x225	1 No	75042
22	75x250	1 No	88910
23	75x275	1 No	97069
24	100x30	1 No	31995
25	100x40	1 No	34160
26	100x50	1 No	37264
27	100x60	1 No	39433
28	100x75	1 No	46496
29	100x100	1 No	54198
30	100x125	1 No	63163
31	100x175	1 No	63163

Sl.No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
32	100x200	1 No	68938
33	100x225	1 No	89013
34	100x250	1 No	97069
35	125x25	1 No	32303
36	125x40	1 No	34160
37	125x50	1 No	37119
38	125x60	1 No	41068
39	125x75	1 No	41838
40	125x100	1 No	50825
41	125x125	1 No	57265
42	125x200	1 No	77912
43	125x225	1 No	82858
44	150x25	1 No	32303
45	150x40	1 No	34160
46	150x50	1 No	34734
47	150x60	1 No	41068
48	150x75	1 No	45595
49	150x100	1 No	51680
50	150x125	1 No	57264
51	175x40	1 No	34160
52	175x50	1 No	40705
53	175x60	1 No	41999
54	175x75	1 No	41999
55	175x100	1 No	50164
56	200x25	1 No	32303
57	200x40	1 No	34160
58	200x50	1 No	38107
59	200x60	1 No	45971
60	200x75	1 No	46496
61	200x100	1 No	56762
62	200x125	1 No	65389
63	250x40	1 No	34160
64	250x50	1 No	41173
65	250x60	1 No	41173
66	250x75	1 No	55665
67	250x100	1 No	65391
68	250x125	1 No	79213
69	300x40	1 No	35589
70	300x50	1 No	41515
71	300x60	1 No	55919
72	300x75	1 No	64602

Sl.No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
73	300x100	1 No	66074
74	350x40	1 No	41515
75	350x50	1 No	48569
76	350x60	1 No	55919
77	350x75	1 No	65389
78	350x100	1 No	72830
79	400x40	1 No	49035
80	400x50	1 No	61501
81	400x60	1 No	57594
82	400x75	1 No	76751
83	500x40	1 No	54503
84	500x50	1 No	57594
85	500x75	1 No	76751
86	600x40	1 No	56378
87	600x50	1 No	75977
88	600x75	1 No	87537

- Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO)
3) Duty of the Pumpset is the criteria for the rates.

**4.0 OPENWELL SUBMERSIBLE PUMPSET AS PER IS 14220 / 2002
WITHOUT PANEL BOARD**

Supply and delivery of Open well Submersible pump set conforming to IS 14220 /2002 and as amended thereafter and BEE 3 Star Rated capable of discharging the following duties due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613/1984 with ISI mark. The pump suitable for installation in sump with 1.1KV grade 3 core suitable copper flat submersible cable to a length of 15m with necessary cable joints. The non-return valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase, 50 Hz (± 5), 415V+6% & 415V-15% squirrel cage induction motor suitable for DOL upto 5 HP, Fully Automatic Air break Star Delta up to 20 HP and Auto Transformer starter for above 20 HP starting and for continuous operation.

Sl. No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
1	50x25	1 No	27805
2	50x40	1 No	27844
3	50x50	1 No	33017
4	50x60	1 No	41295
5	50x75	1 No	54015
6	50x100	1 No	54653
7	50x125	1 No	89204
8	75x25	1 No	27844
9	75x40	1 No	31221
10	75x50	1 No	35373
11	75x60	1 No	41296
12	75x75	1 No	54015
13	75x100	1 No	54655
14	75x125	1 No	83495
15	75x150	1 No	109000
16	100x25	1 No	30095
17	100x40	1 No	35373
18	100x50	1 No	37183
19	100x60	1 No	54016
20	100x75	1 No	54654
21	100x100	1 No	54654
22	100x125	1 No	89339
23	125x25	1 No	30907
24	125x40	1 No	37116
25	125x50	1 No	43739
26	125x75	1 No	54016
27	125x100	1 No	54654

Sl. No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
28	125x125	1 No	89339
29	150x25	1 No	31622
30	150x40	1 No	37116
31	150x50	1 No	37183
32	150x60	1 No	54015
33	150x75	1 No	54015
34	150x100	1 No	54655
35	150x125	1 No	91519
36	175x25	1 No	31183
37	175x40	1 No	37116
38	175x50	1 No	43739
39	175x60	1 No	54016
40	175x75	1 No	54016
41	175x100	1 No	77329
42	200x25	1 No	31183
43	200x40	1 No	37116
44	200x50	1 No	37183
45	200x60	1 No	54016
46	200x75	1 No	61538
47	200x100	1 No	77329
48	200x125	1 No	108316
49	250x25	1 No	31622
50	250x40	1 No	37183
51	250x50	1 No	46003
52	250x60	1 No	54016
53	250x75	1 No	76659
54	250x100	1 No	81901
55	250x125	1 No	106691
56	300x25	1 No	31622
57	300x40	1 No	37183
58	300x50	1 No	43739
59	300x60	1 No	61538
60	300x75	1 No	77329
61	300x100	1 No	81901
62	350x25	1 No	34081
63	350x40	1 No	48660
64	350x50	1 No	54403
65	350x60	1 No	63275
66	350x75	1 No	77329
67	350x100	1 No	81901
68	400x25	1 No	37183
69	400x40	1 No	48854
70	400x50	1 No	54403
71	400x60	1 No	65065

Sl. No.	Duty lpm x m	Unit	Rate for 2022-23 in Rupees
72	400x75	1 No	77593
73	500x25	1 No	37183
74	500x40	1 No	48854
75	500x50	1 No	54403
76	500x75	1 No	78425
77	600x25	1 No	37116
78	600x40	1 No	55440
79	600x50	1 No	66303
80	600x75	1 No	78425
81	700x40	1 No	59048
82	700x60	1 No	79534
83	700x80	1 No	83304
84	700x100	1 No	81800
85	800x40	1 No	61965
86	800x60	1 No	79534
87	800x80	1 No	83304
88	800x100	1 No	83462
89	900x40	1 No	78780
90	900x60	1 No	79534
91	900x80	1 No	83304
92	900x100	1 No	83462
93	1000x40	1 No	92168
94	1000x60	1 No	94515
95	1000x80	1 No	111801
96	1000x100	1 No	179248
97	1250x40	1 No	106855
98	1250x60	1 No	122903
99	1250x80	1 No	199043
100	1250x100	1 No	199043
101	1500x40	1 No	116418
102	1500x60	1 No	176311
103	1500x80	1 No	206059
104	1500x100	1 No	247948
105	2000x40	1 No	133204
106	2000x60	1 No	206059
107	2000x80	1 No	206059
108	2000x100	1 No	206059
109	2500x40	1 No	194203

- Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO.
3) Duty of the Pumpset is the criteria for the rates.

5.0 RATES FOR HORIZONTAL SPLIT CASTING CENTRIFUGAL PUMP (1500 RPM) confirming to IS 1520

Supply and delivery of Horizontal split casing centrifugal pump conforming to IS 1520 and as amended thereafter with CI casing and split glands, stainless steel shaft, hydraulically and dynamically balanced bronze impellers capable of discharging required quantity of water against a total head noted below due to all causes and with the accessories such as G.M air release cock, Grease cup, G.I priming funnel, M.S lifting hook, drip water G.I pipe connections, leading to the outside of pump house rubber water deflector, double flap foot valve, G.M strainer including unique tyre type coupling, common M.S fabricated base to mount pump and motor and other standard fittings etc complete. Pump shall be capable of discharging the specified quantity at the head noted at the minimum NPSH at site conditions. The shut off head shall be atleast 25% over and above the head at duty point. The pump shall be suitable for operation in AC three phase, 415 V, 50 Hz, 1500 RPM.

Sl.No.	Capacity in LPM	Rate for 2022-23 in Rupees													Rs. in Lakhs.		
		Head in Metres															
		25	30	35	40	45	50	55	60	70	80	90					
1	1500	3.92	3.74	4.55	4.61	4.65	5.60	5.94	5.95	6.33	6.33	7.05					
2	2500	3.92	3.92	4.66	4.81	5.73	5.73	6.03	6.37	7.12	7.38	7.38					
3	3000	3.92	3.92	4.91	4.97	6.03	6.03	5.73	6.37	7.61	7.61	7.67					
4	3500	3.92	3.92	4.91	4.97	6.03	6.89	6.73	7.49	8.12	8.12	8.12					
5	4000	4.54	4.54	4.97	4.97	6.10	6.96	7.75	7.94	8.12	8.12	8.12					
6	5000	4.96	4.96	5.09	5.24	7.09	7.39	8.08	8.37	8.62	8.67	8.69					
7	6000	4.96	4.96	6.87	7.03	7.45	7.97	8.44	9.38	9.82	10.00	10.33					
8	7000	6.33	6.73	6.96	7.23	7.80	8.12	8.72	9.57	9.87	11.02	11.24					
9	8000	6.51	6.73	7.03	7.75	8.12	8.54	8.72	9.15	14.28	14.62	15.34					
10	9000	6.51	6.96	7.21	8.12	8.37	8.54	8.72	8.85	14.96	16.38	17.64					
11	10000	6.51	6.96	7.30	8.16	8.57	8.92	8.92	15.46	19.76	20.60	20.73					
12	15000	8.02	8.25	8.04	9.91	10.40	10.95	12.89	17.09	20.57	20.57	20.73					
13	20000	8.80	8.97	8.98	17.41	17.89	19.63	22.41	22.41	22.88	23.01	23.64					
14	25000	20.27	20.60	21.17	21.47	22.01	22.05	22.92	22.92	23.64	24.14	24.07					
15	30000	21.93	22.76	23.83	24.19	24.41	22.61	25.03	28.59	32.27	33.44	34.38					

Note: 1) The above rates are basic rates inclusive of MS base plate, flexible tyre coupling and foundation bolts.

- 2) GST extra applicable as per GO
- 3) Efficiency may be taken from universal curve for calculation of motor HP, otherwise manufacturers may be consulted for efficiency curve.
- 4) NPSH requirement should be assessed and sump should be designed accordingly.

6.0 HORIZONTAL SQUIRREL CAGE MOTOR 1500 RPM

AC three Phase /415 V/ Horizontal SPDP 4 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Supply and delivery of AC three Phase 4 pole Horizontal squirrel cage Induction motor confirming to IS 325/1996 and as amended thereafter with Class F insulation to suit the speed of pump and suitable for operation with continuous S1 rated, 415 V +/- 10 %, 50 HZ +/- 5%, TEFC (upto 20 HP), SPDP (above 20 HP). The motor offered should be of energy efficient motors.

Sl. No	KW	HP	Rate for 2022-23 in Rupees
1	9.3	12.5	101824
2	11	15	108098
3	15	20	127318
4	18.5	25	173915
5	22	30	190988
6	30	40	216142
7	37	50	270898
8	45	60	327676
9	55	75	334476
10	75	110	507953
11	90	120	535164
12	110	150	667744
13	125	170	859437
14	132	180	909325
15	150	200	917262
16	160	215	1000031
17	180	240	1000031
18	187	250	1040849
19	200	270	1117948
20	220	300	1469434
21	250	335	1673060
22	280	375	2308462
23	300	400	2664483

Note: 1)The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

7.0 HORIZONTAL SQUIRREL CAGE MOTOR 1000 RPM

AC three Phase /415 V/ Horizontal SPDP 6 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Supply and delivery of AC three Phase 6 pole Horizontal squirrel cage Induction motor conforming to IS 325/1996 and as amended thereafter with Class F insulation to suit the speed of pump and suitable for operation with continuous S1 rated, 415 V +/- 10 %, 50 HZ +/- 5%, TEFC (upto 20 HP), SPDP (above 20 HP). The motor offered should be of energy efficient motors.

Sl. No	KW	HP	Rate for 2022-23 in Rupees
1	9.3	12.5	98802
2	11	15	103822
3	15	20	146320
4	18.5	25	172800
5	22	30	222421
6	30	40	277437
7	37	50	346780
8	45	60	427195
9	55	75	489420
10	75	110	587448
11	90	120	666367
12	110	150	856157
13	125	170	1018644
14	132	180	1018644
15	150	200	1087347
16	160	215	1172663
17	180	240	1641131
18	187	250	1667380
19	200	270	1804729
20	220	300	2070717
21	250	335	2318173

- Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

8.0 VERTICAL TURBINE PUMP (WATER LUBRICATED) CONFIRMING TO IS1710/1989 (REAFFIRMED 2009) 1500 RPM SUITABLE FOR VERTICAL HOLLOW SHAFT SQUIRREL CAGE

Supply and delivery of Vertical type water/Oil lubricated statically, dynamically, hydraulically balanced turbine pump capable of discharging the following duty condition as given below due to all causes with surface discharge head conforming to IS 1710 and as amended as on date with accessories as per IS 5120/1977 (Reaffirmed 2011) and as amended thereafter to suit the site condition. The speed, No. of stages, sizes of column pipes and line shaft indicated is based on site condition prevailing during investigation. The pump should be supplied with non reversible ratchet pin housing safety clutch, suction strainer etc. The Pump Bowl assembly shall be with bronze impeller running at 1450 rpm. The pump includes suitable head shaft, suitable 1.5 metre long SS line shaft required Nos. to suit the well depth, Rubber line shaft bearing of required Nos., C.I Bearing retainer of required Nos., 100 litre HDPE Pre- lubricating tank with 20mm PVC Rigid pipe connection along with GM gate valves, Suitable ERW column pipe of each 1.5m long of required Nos. to suit the well depth, Suction bell mouth of suitable size, M.S. clamps suitable for column pipe/line shaft - 2 set and Spanner - 1 set etc complete

Sl.no.	Capacity in LPM	Rate for 2022-23 in Rupees										Rs. in Lakhs												
		Head in Metres										15m	20m	30m	40m	50m	60m	70m	80m	90m	100m			
		15m	20m	30m	40m	50m	60m	70m	80m	90m	100m													
1	1500	3.92	3.92	4.19	4.19	4.35	4.35	4.46	4.46	4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71	5.21	5.21	5.48	
2	2000	7.85	8.30	9.29	10.30	11.49	10.30	12.27	10.30	12.78	11.49	12.27	12.27	12.27	12.78	12.27	12.78	12.27	12.78	12.27	13.29	13.29	14.22	14.22
3	3000	10.13	10.36	10.99	12.22	13.53	12.22	14.07	12.22	14.62	13.53	14.07	14.07	14.07	14.62	14.07	14.62	14.07	14.62	14.07	14.62	14.62	14.70	14.70
4	4000	11.08	11.46	14.26	14.49	14.70	14.49	14.70	14.49	15.16	14.70	14.70	14.70	14.70	15.16	14.70	15.16	14.70	15.16	14.70	16.59	16.59	16.59	16.59
5	5000	13.39	13.78	14.49	13.94	15.98	13.94	16.37	13.94	17.05	15.98	16.37	16.37	16.37	17.05	16.37	17.05	16.37	17.05	16.37	17.57	17.57	18.04	18.04
6	6000	13.78	13.78	14.68	15.43	16.37	15.43	16.37	15.43	17.05	16.37	16.37	16.37	16.37	17.05	16.37	17.05	16.37	17.05	16.37	17.58	17.58	18.04	18.04
7	7000	13.78	13.78	14.68	15.43	16.37	15.43	16.37	15.43	17.05	16.37	16.37	16.37	16.37	17.05	16.37	17.05	16.37	17.05	16.37	17.58	17.58	18.04	18.04
8	8000	14.98	14.98	15.43	16.15	16.59	16.15	16.59	16.15	17.58	16.59	16.59	16.59	16.59	17.58	16.59	17.58	16.59	17.58	16.59	17.58	17.58	18.04	18.04
9	10000	14.68	14.98	15.56	16.15	16.59	16.15	16.59	16.15	17.58	16.59	16.59	16.59	16.59	17.58	16.59	17.58	16.59	17.58	16.59	17.58	17.58	18.04	18.04
10	15000	16.10	16.47	16.59	17.05	16.30	17.05	18.04	17.05	18.49	16.30	18.04	18.04	18.04	18.49	18.04	18.49	18.04	18.49	18.04	19.91	19.91	20.37	20.37
11	20000	18.32	18.91	19.68	20.41	20.92	20.41	23.39	20.41	25.72	20.92	23.39	23.39	23.39	25.72	23.39	25.72	23.39	25.72	23.39	30.22	30.22	36.39	36.39
12	25000	18.84	19.43	20.17	20.79	21.41	20.79	23.84	20.79	26.22	21.41	23.84	23.84	23.84	26.22	23.84	26.22	23.84	26.22	23.84	30.83	30.83	37.50	37.50
13	30000	32.29	33.81	35.06	37.41	37.78	37.41	39.79	37.41	40.27	37.78	39.79	39.79	39.79	40.27	39.79	40.27	39.79	40.27	39.79	45.32	45.32	50.12	50.12

Note:

- 1) The above rates are basic rates inclusive of transportation, handling charges
- 2) GST extra applicable as per GO
- 3) Multiply with 1.15 for oil lubricated pumps (for raw water)
- 4) Rates given are with suspension length of 7m, bronze impeller, SS 401 shaft, MS column pipe, discharge case & CI bell mouth.
- 5) Add 7.5% extra for each 1.5 m length column pipe assembly in the above rate.

9.0 VERTICAL HOLLOW/SOLID SHAFT MOTORS FOR TURBINE PUMP

AC three Phase / 415 V/ Vertical Hollow/ Solid Shaft TEFC & SPDP 4 Pole Squirrel cage Induction motor 1500RPM

Supply and delivery of vertical Hollow/Solid shaft Squirrel cage induction motor (IS 325) suitable for the above pump continuous rated TEFC/SPDP type with Class 'F' insulation for operation in AC, three Phase/50 HZ ($\pm 5\%$), 415V ($\pm 10\%$) running with a speed of pump noted above and with inbuilt thrust bearing assembly capable of taking up the entire load and non - reverse ratchet assembly etc., complete. The motor rating noted above is the minimum and shall be such that it should never be over loaded when the pump works at MWL condition and shall be 10% over and above the maximum HP absorbed by the pump. The motor offered should be energy efficient to have maximum efficiency at high power factor. Separate thrust bearing assembly could also be supplied to take up the down load.

SI.No	KW	HP	Rate for 2022-23 in Rupees
TEFC MOTORS			
1	18.5	25	122407
2	22	30	134650
3	30	40	155781
4	37	50	203903
5	45	60	246357
SPDP MOTORS			
6	55	75	385711
7	75	100	508935
8	90	120	530793
9	110	150	683987
10	125	170	706862
11	132	180	792647
12	150	200	892953
13	160	215	1072875
14	180	240	1118626
15	187	250	1126633
16	200	270	1246731
17	220	300	1303921
18	250	335	1395424
19	280	375	1630754
20	300	400	1848737
21	380	520	2042042
22	400	540	2416313

Note: 1) The above rates are basic rates only inclusive of handling charges.
2) GST extra applicable as per GO

10.0 Iron core Oil Cooled Transformer with Copper Winding Conforming to IS 1180 (Part 1) of 2014

Supply and delivery of 11 KV/433 Volts, 22 KV/433 Volts, three Phase 50 HZ double wound oil immersed natural air cooled, core type continuous rating, outdoor distribution power transformer with copper winding for voltage ratio 22-11 KV/433 volts between phases with neutral brought out at LV side. The transformer shall be contained in a mild steel plain & radiator cooled tank, conforming to IS 1180 (Part I) of 2014 with off-load tap switch for $\pm 10\%$ on L.V side and $\pm 5\%$ on H.V.side. The transformer shall be supplied with first filling of oil and consisting of all the fittings and accessories such as Inspection cover, Oil level indicator with minimum and filling level markings, Externally operated off circuit tap changing switch with locking device & keys, H.V. Terminals- Bushings, L.V. Terminals cable box Rating plate, Two earthing terminals, Two lifting hooks etc complete as per IS 1180 (Part I) of 2014 and as amended thereafter.

Sl.no	Rating in KVA	Rate for 2022-23 in Rupees	
		11KV / 433 V	22 KV / 433 V
1	63	224743	238790
2	100	259110	272748
3	150	459786	486945
4	160	379256	414372
5	200	421395	414372
6	250	513426	589952
7	315	603999	646139
8	400	674195	744465
9	500	777330	836424
10	630	872792	927340
11	750	1036439	1072807
12	800	1072807	1118264
13	1000	1200088	1254638

Note :- 1) The above rates are basic rates inclusive of transportation and handling charges
 2) GST extra applicable as per GO

11.0 SINGLE PHASE PANEL BOARD WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of direct online starter confirming to IS13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/single Phase/50HZ(\pm 5%) and 230 V(\pm 10%) including Ammeter, Voltmeter, Thermal Overload relay, 16 Amps 2 pole Magnetic Contactor with under Voltage protection, Indication lamp, starting capacitor, running capacitor and On/Off Push button switches, 5 way connector, wiring with 1 sq. mm/1.5 sq. mm copper PVC insulated cable, powder coated vermin proof box including the capacitor (the cost of capacitor is to be taken separately).

Sl. No.	HP	Unit	Rate for 2022-23 in Rupees
1	1	1 No.	6322
2	1.5	1 No	6586
3	2	1 No	7635

- Note: 1) The rate are basic rates with inclusive of two level guard worth Rs.568/- and auto start facility worth Rs. 424/-
2) Timer is not recommended for this panel board.
3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004
4) GST extra applicable as per GO

11.1 THREE PHASE PANEL BOARD- D.O.L WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of direct online starter confirming to IS13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/Three Phase/50HZ(\pm 5%) and 415 V(\pm 10%) including Ammeter, Voltmeter, Thermal Overload relay, 16 Amps 2 pole Magnetic Contactor with under Voltage protection, Indication lamp, starting capacitor, running capacitor and On/Off Push button switches, 5 way connector, wiring with 1 sq. mm/1.5 sq. mm copper PVC insulated cable, powder coated vermin proof box including the capacitor (the cost of capacitor is to be taken separately).

Sl. No.	HP	Unit	Rate for 2022-23 in Rupees
1	1	1 No.	14832
2	2	1 No	14832
3	3	1 No	15147
4	4	1 No.	15147
5	5	1 No	15573
6	6	1 No	15573

- Note: 1) The rate are basic rates with inclusive of two level guard worth Rs.568/- and auto start facility worth Rs. 424/-
2) For Timer facility if necessary Rs. 4000 may be added as extra.
3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004
4) GST extra applicable as per GO
5) DOL Starters are to be adopted upto 6HP

11.2 THREE PHASE PANEL BOARD STAR- DELTA WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of Star-Delta starter confirming to IS 13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/ Three Phase/50HZ (+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter (65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Miniature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor (the cost of capacitor is to be taken separately).

Sl. No.	HP	Unit	Rate for 2022-23 in Rupees
1	6	1 No.	18649
2	7.5	1 No	19580
3	10	1 No	23717
4	12.5	1 No.	24706
5	15	1 No	25723
6	20	1 No	25723
7	25	1 No	25723

Note: 1) The rate are basic rates with inclusive of two level guard worth Rs.568/- and auto start facility worth Rs. 424/-

2)For Timer facility if necessary Rs. 4000 may be added as extra.

3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004.

4) Air Break Fully Automatic Star Delta starters are suggested for above 6HP and upto 20HP and Auto Transformer starter for above 20HP are to be adopted.

5) GST extra applicable as per GO

11.3 DOL STARTER WITH SINGLE PHASING PREVENTOR WITH ANALOG AMMETER AND VOLTMETER CONFORMING TO IS 13947, IEC 60947-1 WITH AUTO RESTART FACILITY FOR PUMP HOUSES WHERE PANEL BOARDS ARE AVAILABLE

Supply and delivery of direct online starter confirming to IS13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/ three Phase/50HZ(+/- 5%) and 415V (+/- 10%) including Ammeter, Overload relay, under Voltage release with no Volt coil, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, including the capacitor(the cost of capacitor is to be taken separately).

Upto 5 HP - Rs. 5641 /each.

Note : 1) The above rate is basic rate only.

2) GST extra applicable as per GO

11.4 FLEX COMPENSATED MAGNETIC AMPLIFIER SOFT STARTER SUITABLE FOR L.T. SQUIRREL CAGE MOTOR

Supply and delivery of floor mounted type FCMA Air/ Oil Cooled soft starter suitable for the LT motor offered for operation in AC three Phase 50Hz (+/- 5%), 415V(+/-10%) including line contactors suitable for next standard higher KW rating, Over load relay, instrument panel with frequency meter, Ammeter, Voltmeter, indicating lamp 6Nos, LED ON/OFF type and Start /Stop push button.

Sl. No.	KW	Unit	Rate for 2022-23 in Rupees
1	30 to 37	1 No	205349
2	38 to 75	1 No	366112
3	76 to 135	1 No	510441
4	136 to 160	1 No	577331
5	161 to 250	1 No	862477
6	251 to 300	1 No	1011502
7	301 to 500	1 No	1422544
8	501 to 750	1 No	1864590

- Note: 1)The above rates are basic rates only
 2) FCMA soft starters are to be adopted for 100 HP and above.
 3) GST extra applicable as per GO

**11.5 FLEX COMPENSATED MAGNETIC AMPLIFIER SOFT STARTER SUITABLE
FOR H.T. SQUIRREL CAGE MOTOR**

Supply and delivery of suitable KW indoor automatic air cooled dust and vermin proof FCMA Soft Starter for the operation in 3.3 KV three Phase 50 HZ, AC supply termination with phase segregated neutral terminal box of the motor , housed in 14 SWG sheet steel enclosure, painted with epoxy or polyurethane , 230V AC 10 Amps control supply , Class B insulation, 300 mm height fabricated pedestal (to prevent water ingress for starter panel) and condensation heater with switch and thermostat, interlocking with running motor with built in facility for run mode/by pass etc. complete. The starter may be provided with contactors suitable for next standard higher KW rating, Over load relay, instrument panel with frequency meter, Ammeter, Voltmeter, indicating lamp 6 Nos, LED ON/OFF type and Start /Stop push button.

Sl. No.	KW	Unit	Rate for 2022-23 in Rupees
1	250	1 No	824135
2	300	1 No	868058
3	350	1 No	933135
4	400	1 No	976713
5	500	1 No	1019458
6	600	1 No	1146479
7	700	1 No	1261599
8	800	1 No	1410076
9	900	1 No	1529788
10	1000	1 No	1673404

- Note: 1)The above rates are basic rates only
2) FCMA soft starters are to be adopted for 100 HP and above.
3) GST extra applicable as per GO

11.6 FULLY AUTOMATIC AIR BREAK STAR DELTA STARTER WITH SINGLE PHASE PREVENTOR WITH AMMETER CONFIRMING TO IS 13947, IEC 60947-1 WITH AUTO RESTART FACILITY FOR PUMP HOUSES WHERE PANEL BOARDS ARE AVAILABLE

Supply and delivery of Star-Delta starter where panel boards are available confirming to IS 13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/three Phase/50HZ(+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector swith, Minature Circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor (the cost of capacitor is to be taken separately).

Sl.No	KW Rating	HP	Unit	Rate for 2022-23 in Rupees
1	7.5	10	1 No	18749
2	11	15	1 No	18749
3	15	20	1 No	20217
4	18.5	25	1 No	20217
5	22	30	1 No	32995
6	30	40	1 No	37795
7	37	50	1 No	43103

- Note: 1) The above rates are basic rates inclusive of handling charges.
 2) GST extra applicable as per GO
 3) Air Break Fully Automatic Star Delta starters are suggested for above 6HP and upto 20HP and Auto Transformer starter for above 20HP are to be adopted.

**11.7 FULLY AUTOMATIC AIR BREAK AUTO TRANSFORMER STARTER WITH
SINGLE PHASING PREVENTOR WITH AMMETER CONFIRMING TO IS 8544
Part IV WITH AUTO RESTART FACILITY**

Supply and delivery of Fully Automatic Auto Transformer Starter suitable for the motor offered. Floor mounting type air/ oil cooled Auto Transformer Starter with tapings at 50%, 65%, 80%, housed in robust steel chamber with arc and main contacts confirming to IS 8544 Part IV and as amended thereafter for operation in AC three Phase 50 Hz (+/- 5%), 415V (+/- 10%) with the following components, under voltage release with no volt coil, over load relay with dash pot arrangements, single phasing preventor, LED ON/ OFF switches, Mounted Ammeter, Earth leakage relay, contactor assembly suitable for next standard KW rating, in coming and out going cable entry provisions, transformer tank including first filling of oil etc.

Sl.No	KW Rating	HP	Unit	Rate for 2022-23 in Rupees
1	5.5	7.5	1 No	32901
2	7.5	10	1 No	32901
3	9	12.5	1 No	37845
4	11	15	1 No	39423
5	15	20	1 No	78845
6	22	30	1 No	100777
7	30	40	1 No	113368
8	37	50	1 No	130772
9	45	60	1 No	145950
10	60	80	1 No	201866
11	75	100	1 No	221155

- Note: 1) The above rates are basic rates inclusive of handling charges.
 2) GST extra applicable as per GO
 3) Air Break Fully Automatic Star Delta starters are suggested for above 6HP and upto 20HP and Auto Transformer starter for above 20HP are to be adopted.

**12.0 L.T. CABLES 3,3.5,4 CORE 1.1 KV GRADE ARMOURED ALUMINIUM
CONDUCTOR CROSS LINKED POLY ETHYLENE INSULATED PVC SHEATHED
CABLES CONFORMING TO IS 7098 (PART I)/1988 AND AS AMENDED
THEREAFTER WITH ISI MARKING**

Sl.NO.	Description	Unit	Rate for 2022-23 in Rupees		
			3 Core	3.5 Core	4 Core
1	4sq.mm	metre	87	—	168
2	6sq.mm	metre	106	—	185
3	10sq.mm	metre	118	—	203
4	16sq.mm	metre	124	—	265
5	25sq.mm	metre	156	324	—
6	35sq.mm	metre	191	380	—
7	50sq.mm	metre	253	497	—
8	70sq.mm	metre	334	637	—
9	95sq.mm	metre	437	822	—
10	120sq.mm	metre	527	1006	—
11	150sq.mm	metre	641	1191	—
12	185sq.mm	metre	792	1460	—
13	240sq.mm	metre	999	1842	—
14	300sq.mm	metre	1212	2261	—
15	400sq.mm	metre	1553	2893	—

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO

**12.1 PVC INSULATED AND SHEATHED 3 CORE FLAT TYPE
COPPER CABLE CONFORMING TO IS 694/1990 AND AS
AMENDED THEREAFTER**

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	1.5 sq.mm	meter	83
2	2.5 sq.mm	meter	130
3	4.0 sq.mm	meter	194
4	6.0 sq.mm	meter	261
5	10.0 sq.mm	meter	453
6	16.0 sq.mm	meter	704
7	25.0 sq.mm	meter	963
8	35.0 sq.mm	meter	1412
9	50.0 sq.mm	meter	1979
10	70.0 sq.mm	meter	2916
11	95.0 sq.mm	meter	3551

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO
3) The above cable should be adopted for Bore well submersible pumpsets only.

12.2 RATE FOR CABLE JOINTS INCLUDING JOINTING MATERIALS AND LABOUR

I. JOINTING OF L.T. CABLES- 3,3.5,4 CORE 1.1 KV GRADE ARMOURED ALUMINIUM CONDUCTOR CABLE CONFORMING TO IS 1554 PART I AND AS AMENDED THEREAFTER WITH ISI MARKING

SI.NO.	Description	Unit	Rate for 2022-23 in Rupees		
			3 Core	3.5 Core	4 Core
1	4sq.mm	Joint	86	—	173
2	6sq.mm	Joint	103	—	181
3	10sq.mm	Joint	117	—	200
4	16sq.mm	Joint	123	—	262
5	25sq.mm	Joint	152	318	—
6	35sq.mm	Joint	189	375	—
7	50sq.mm	Joint	249	489	—
8	70sq.mm	Joint	330	627	—
9	95sq.mm	Joint	432	811	—
10	120sq.mm	Joint	519	992	—
11	150sq.mm	Joint	634	1173	—
12	185sq.mm	Joint	781	1439	—
13	240sq.mm	Joint	984	1817	—
14	300sq.mm	Joint	1196	2229	—
15	400sq.mm	Joint	1530	2852	—

II. JOINTING OF XLPE INSULATED AND SHEATHED 3 CORE FLAT TYPE COPPER CABLE CONFORMING TO IS 694/1990 AND AS AMENDED THEREAFTER

SI.No.	Description	Unit	Rate for 2022-23 in Rupees
1	1.5 sq.mm	Joint	84
2	2.5 sq.mm	Joint	135
3	4.0 sq.mm	Joint	199
4	6.0 sq.mm	Joint	266
5	10.0 sq.mm	Joint	466
6	16.0 sq.mm	Joint	721
7	25.0 sq.mm	Joint	948
8	35.0 sq.mm	Joint	1386
9	50.0 sq.mm	Joint	1945
10	70.0 sq.mm	Joint	2867
11	95.0 sq.mm	Joint	3490

III. JOINTING OF HT CABLE -XLPE INSULATED ARMoured ALUMINIUM CONDUCTOR CABLE

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees	
			11KV	12KV
1	3 C 240 sq.mm	Joint	1493	1823
2	3 C 185 sq.mm	Joint	1243	1541
3	3 C 150 sq.mm	Joint	1055	1371
4	3 C 120 sq.mm	Joint	938	1232
5	3 C 95 sq.mm	Joint	796	1116
6	3 C 70 sq.mm	Joint	713	983

12.3 CABLE LAYING

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees	
			For laying below GL including earth work	For laying in trenches inside the pump room or in air
1	up to 95 sq. mm	metre	165	106
2	95 to 240 sq.mm	metre	232	161
3	240 to 400 sq.mm	metre	335	263

12.4 CABLE CLAMPS

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	up to 95 sq. mm	each	353
2	95 to 240 sq.mm	each	441
3	240 to 400 sq.mm	each	651

- Note :
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO
 - 3) For every 3 metre length one set of clamp is to be provided
 - 4) Suitable number of clamps are to be arrived at according to the length
 - 5) Provision for cable trench and delivery pipe duct are to be provided in pump house detailed estimate.

H.T. CABLE

12.5. PVC INSULATED ARMOURED ALUMINIUM CONDUCTOR CABLE

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees	
			11KV	12KV
1	3 C 240 sq.mm	metre	1367	1778
2	3 C 185 sq.mm	metre	1135	1517
3	3 C 150 sq.mm	metre	972	1353
4	3 C 120 sq.mm	metre	867	1227
5	3 C 95 sq.mm	metre	751	1076
6	3 C 70 sq.mm	metre	644	997

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO

13.0 VACCUM PUMP SET WITH ACCESSORIES

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
1	Price for 5 HP Model/ Rotary type Vaccum pumpsets (Pumpset + GI Pipes + Fittings + Starters + Valves + 100L Tank) including Transportation, handling charges.	1 No	431472
2	Price for 10 HP Vaccum pumpset with all above Accessories	1 No	557284
3	150mm dia Pressure Gauge and Vaccum guage including all accessories as per specification (For Suction and Delivery to be mounted on wall on Teak Wood Board)	1 No	7719

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO

14.0 MOULDED CASE CIRCUIT BREAKER (MCCB) WITH THERMO MAGNETIC RELEASE

Sl.No.	Range	Rate for 2022-23 in Rupees	
		3POLE	4 POLE
1	32-100	10715	13266
2	125	14797	16328
3	160	17879	21430
4	200	30615	33962
5	250	30615	35719
6	320	39210	45401
7	400	41298	47453
8	630	45671	55033
9	800	61912	82493
10	1000	96282	123824
11	1250	108652	150011
12	1600	123760	186749

Note:

- 1) The above rates are basic rates inclusive of handling charges and F.O.R destination
- 2) GST extra applicable as per GO
- 3) Add 35% cost of MCCB/ACB/ MCB towards the cost of fabrication, other fittings and labour
- 4) Upto 15 KW distribution box shall be used, for more than one outgoing loads, PWD schedule of rates shall be referred.

15.0 RATE FOR MIXED DI-ELECTRIC CAPACITOR WITH TNEB TEST CERTIFICATE WITH ACCESSORIES INCLUDING BANKING CONFORMING TO IS 2834.

Rs. 530/- per KVAR

- Note:
- 1) The above rate is basic rate inclusive of handling charges.
 - 2) GST extra applicable as per GO
 - 3) The rate for mixed Di-Electric Capacitor with Test Certificate given as Rs.461/- per KVAR is inclusive of Banking charges, such as providing copper bus bars with provision for adding atleast 2 capacitors at later date, cable entry box, fabricating charges etc. complete. This rate is not applicable for replacement of capacitors which does not require banking and fabrication works.

16.0 LT/LTCT METERING BOX as per IE rules and TANGEDCO norms

SI.No.	Description	Unit	Rate for 2022-23 in Rupees
1	Up to 50HP/37 KW (which includes LT meter panel board, 6 Nos. suitable fuse carriers	1 No.	28292
2	75HP/56 KW (which includes LT meter panel board, 6 Nos. suitable fuse carriers	1 No.	36922
3	75HP-150HP/56-112KW (which includes LTCT meter panel board, 6Nos. suitable fuse carriers and 3 nos. CT coil)	1 No.	46010
4	In HT supply using LTCT metering box as per IE rules and TANGEDCO norms (Above 150 HP below 200 HP) 112-150 KW	1 No.	74301

Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

17.0 TRANSFORMER SUB STATION RELATED WORKS

SI.No.	Description	Unit	Rate for 2022-23 in Rupees
1	Designing and preparation of CEIG drawings, obtaining Approval and safety certificate including submission of Completion report and rectification report.	1 No.	81497
2	Supply, delivery of 6 pole structure materials with suitable Size RSJ along with all structure material are as under.		
a	For 11 KV Sub station	1 No.	414691
b	For 22 KV Sub station	1 No.	552922
3	Construction of transformer plinth	1 No.	27646
4	Chain link fencing with gate including the TNEB 2 poles Spreading of materials as per CEIG requirements	1 No.	69115
5	Transformer yard earthing using copper flat and TWIN earthing as per IS		
a	Upto 250 KVA Transformer sub station	1 No.	41469
b	Above 250 KVA Transformer sub station	1 No.	82938
6	Transformer sub station erection charges	1 No.	26358

Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO
3) Provision for cement concrete flooring has to be made at the sub station yard

17.1 AIR CIRCUIT BREAKER (With Shunt release and Under Voltage release)

Sl.No.	Range in AMPS	Rate for 2022-23 in Rupees	
		3POLE	4 POLE
1	630	135326	159983
2	800	168242	200193
3	1000	190669	276253
4	1250	202382	299946
5	1600	224590	341263
6	2000	265327	372598
7	2500	290840	406854
8	3200	382683	539423
9	4000	531556	749064

Note: 1)The above rates are basic rates inclusive of handling charges, F.O.R destination.
2) GST extra applicable as per GO

18.0 SAFETY APPLIANCES

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	Electrical gloves tested to 11 KV /22 KV with wooden box dusted with french	1 No.	717
2	Electrical quality 6mm thick rubber mat	1 No.	783
3	5 kg capacity ISI marked Dry chemical powder fire extinguisher	1 No.	2799
4	Fire Bucket-3 Nos Hooked to MS stand	1 No.	1118
5	Laminated shock treatment chart	1 No.	746
6	Wooden First Aid Box	1 No.	942
7	Rechargeable Emergency lamp(600mm fluorescent lamp)	1 No.	3744
	H.T. SUPPLY		
8	Teak Wood ladder –5M Ht.	1 No.	1918
9	Earth Discharge Rod (3 Nos. -RYB)	1 No.	1604

Note: 1) The above rates are basic rates inclusive of handling charges, F.O.R destination.
2) GST extra applicable as per GO

19.0 TWIN CI EARTHING as per IS 3043/1987 and Latest amendments

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	Upto 25 HP installation	1 No.	14587
2	Above 25-60 HP	1 No.	22450
3	Above 60-150 HP	1 No.	35005
4	Above 150 HP	1 No.	56125

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO
 - 3) In case of collector well the collector well distance from the bank of the river should be ascertained to find out the weight of GI strip to be used only in the foot bridge and rate of Rs.52/- per Kg should be adopted for estimation and this amount should be added with the above rates.

20.0 TOOLS

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	6" Chain wrench best India make or equivalent	1 No.	703
2	8"Chain Wrench Best India Make or equivalent	1 No.	952
3	Connector Screw Driver 901 Taparia Make or equivalent	1 No.	61
4	200mm Screw Driver 825 Taparia Make or equivalent	1 No.	101
5	300mm Screw Driver 829 Taparia Make or equivalent	1 No.	187
6	400mm Screw Driver 930 Taparia Make or equivalent	1 No.	273
7	200mm Cutting Plier Taparia Make or equivalent	1 No.	331
8	800gm Ball Pane Hammer with Handle Taparia Make	1 No.	418
9	Digital Tong Tester CE Make or equivalent	1 No.	3693
10	Digital Multi Meter CE Make or equivalent	1 No.	2481
11	15" Screw Spanner Taparia Make or equivalent	1 No.	860
12	12" Bearing Puller	1 No.	853
13	Lever Type Grease Gun	1 No.	698
14	12"Screw Spanner	1 No.	631
15	Crow Bar 5"	1 No.	617
16	1" Cold Chisel	1 No.	226
17	Hacksaw Frame with Blade	1 No.	140
18	Electrical Air Blower	1 No.	3200
19	Digital Tachometer	1 No.	2150
20	Hand Crimpling Tool 8"	1 No.	582
21	DE Spanner set 6 to 32 Jhalani Make or equivalent	1 No.	1113
22	Rings spanner set 6 to 32 Jhalani Make or equivalent	1 No.	2491
23	Pipe Wrench 24" Jhalani Make or equivalent	1 No.	1426
24	Pipe Wrench 14" Jhalani Make or equivalent	1 No.	703
25	12" Flat rough File Scissors Jhalani Make or equivalent	1 No.	351
26	12" Flat smooth File Scissors Jhalani Make or equivalent	1 No.	528
27	12"Round File Rough Scissors Jhalani Make or equivalent	1 No.	409
28	12" Round File Smooth Scissors Jhalani Make or equivalent	1 No.	487
29	12"Half Round File Rough Scissors Jhalani Make or equivalent	1 No.	713
30	12"Half Round File Smooth Scissors Jhalani Make or equivalent	1 No.	713

Note:

- 1)The above rates are basic rates inclusive of handling charges, F.O.R destination.
- 2) GSTextra applicable as per GO

21.0 H.O.T. CRANE AND ACCESSORIES

Sl.No.	Description	Unit	Rate for 2022-23 in Rupees
1	2T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 Mtrs. with clear lift upto 6 Mtrs. including gear type chain pulley block with GI chain and geared Travelling trolley complete with all accessories including girder	1 No.	354537
2	2T HOT crane with above specifications upto 8 M Span including girder	1 No.	368280
3	2T HOT crane with above specifications upto 10 M Span including girder	1 No.	400315
4	3T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 Mtrs. with clear lift upto 6 M including gear type chain pulley block and geared Travelling trolley complete with all accessories including girder	1 No.	383720
5	3T HOT crane with above specifications upto 8 M Span including girder	1 No.	415301
6	3T HOT crane with above specifications upto 10 M Span including girder	1 No.	430670
7	5T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 M with clear lift upto 6 M including gear type chain pulley block and geared Travelling trolley complete with all accessories including girder	1 No.	451882
8	5T HOT crane with above specifications upto 8 M Span including girder	1 No.	485534
9	5T HOT crane with above specifications upto 10M Span including girder	1 No.	504755

Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

22.0 Submersible Centrifugal Sewage Non Clog Pumps

Supply and delivery of submersible centrifugal sewage non-clog pumps, vertical spindle type pump, wear resistance with submersible motor for the various duty conditions. Pump shall be capable of handling min 100 mm solid size with sewage specific gravity of up to 1.05. Pump shall be of robust construction, Liquid passages shall be finished smooth and designed as to allow free passage to solids. Pump Impeller should be of Non-clog semi open type, single vane / multi vane preferably contra bloc or vortex impeller design. Double mechanical seal with silicon carbide faces should be provided to protect the motor from ingress of sewage along the shaft. The critical speed of the rotor shall be at least 30% above the operating speed. Pumps should have double bearings between the pump & motor. The bearings life shall be minimum 100,000 hrs of operation with greased for life. Pump should be provided with automatic coupling device including pedestal, duck foot bend, stainless steel guide pipe or related accessories of suitable size to facilitate lifting and lowering into guide rails for easy maintenance. Pump shall be provided with a stainless steel lifting chain conforming to BS 970 Gr 304. Pump speed shall be of 9600 rpm for high duty pumps and 960/1450 rpm for low duty pumpsets. Casing and impeller should be of CI Gr. FG 260 :IS210 more preferably with hardened impeller. Shaft should be of stainless steel AISI 410. All the fasteners and bolts shall be of AISI 410. The submersible motor shall be operated with 3ph, 415 V(+or- 10%), 50Hz(+or-5 %) dry induction type. Motor shall be capable of giving rated output without reduction in the expected life span when operated continuously. The rotating assembly shall be dynamically balanced as per standards. The starting current of the motor shall not exceed 200% of rated full load current for Star / Delta or ATS starting under any circumstances. The motor shall be suitable for full voltage star delta / ATS starting. The locked rotor current of the motor shall not exceed 600% of full load current unless otherwise specified. Motor shall be designed to withstand 120% of rated speed for two minutes without any mechanical damage, in either direction of rotation. The motor vibration shall be within the limit specified in applicable standards. Motor should be of IE2, explosion proof compatible for VFD operation together with star-Delta /ATS starter, protection against increase in stator winding temperature (15 deg Celsius), bearing temperature, leakage in the stator housing and terminal box shall be provided and to be suitably interlocked with the control panel for tripping the pump in case of increase in temperature beyond set limit.

Insulation class shall be of "Class H" and degree of protection shall be of IP 68 as per IS 4691. Motor shall be suitable for continuous operation in fully submerged or partially submerged condition. The pumpset shall be supplied with power cable of PVC insulated and PVC sheathed, copper, flexible, round type with required conductor size and number of cores as per starting method and of specified length for continuous use under water and air. The control cable of PVC insulated, PVC sheathed, flexible for stator winding temperature sensor 3core x 1.5 sq.mm copper conductor and for bimetallic switches 2core x 1.5 sqmm copper conductor shall be provided. Motor shall be supplied with 10m of round submersible copper cable of suitable size.

The non clog submersible pumpset shall be provided with suitable starter control panel having all protections as mentioned above.

(upto 5 HP - DOL Starter, above 5 HP to 25 HP -Star Delta Panel and beyond 25 HP shall be ATS)

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
	10 m upto 15 m head		
1	Discharge Upto 20 M ³ /hour	1 No	555044
2	Discharge 20 to 100 M ³ /hour	1 No	555044
3	Discharge 100 to 200 M ³ /hour	1 No	586157
4	Discharge 200 to 300 M ³ /hour	1 No	1006796
5	Discharge 300 to 400 M ³ /hour	1 No	1218359
6	Discharge 400 to 500 M ³ /hour	1 No	1459475

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
7	Discharge 500 to 600 M ³ /hour	1 No	1812427
8	Discharge 600 to 700 M ³ /hour	1 No	1812427
9	Discharge 700 to 800 M ³ /hour	1 No	1794150
10	Discharge 800 to 900 M ³ /hour	1 No	1916176
11	Discharge 900 to 1000 M ³ /hour	1 No	2396800
12	Discharge 1000 to 1100 M ³ /hour	1 No	2357426
	above 15m upto 20 m head		
13	Discharge Upto 20 M ³ /hour	1 No	555044
14	Discharge 20 to 100 M ³ /hour	1 No	555044
15	Discharge 100 to 200 M ³ /hour	1 No	965633
16	Discharge 200 to 300 M ³ /hour	1 No	1055330
17	Discharge 300 to 400 M ³ /hour	1 No	1355143
18	Discharge 400 to 500 M ³ /hour	1 No	1459475
19	Discharge 500 to 600 M ³ /hour	1 No	1812427
20	Discharge 600 to 700 M ³ /hour	1 No	1812427
21	Discharge 700 to 800 M ³ /hour	1 No	1794150
22	Discharge 800 to 900 M ³ /hour	1 No	1916176
23	Discharge 900 to 1000 M ³ /hour	1 No	2396800
24	Discharge 1000 to 1100 M ³ /hour	1 No	2357426
	above 20 m upto 25 m head		
25	Discharge Upto 20 M ³ /hour	1 No	744940
26	Discharge 20 to 100 M ³ /hour	1 No	741240
27	Discharge 100 to 200 M ³ /hour	1 No	1029197
28	Discharge 200 to 300 M ³ /hour	1 No	1170368
29	Discharge 300 to 400 M ³ /hour	1 No	1465529
30	Discharge 400 to 500 M ³ /hour	1 No	1655747
31	Discharge 500 to 600 M ³ /hour	1 No	2396800
32	Discharge 600 to 700 M ³ /hour	1 No	2396800
33	Discharge 700 to 800 M ³ /hour	1 No	2396800
34	Discharge 800 to 900 M ³ /hour	1 No	2592933
35	Discharge 900 to 1000 M ³ /hour	1 No	2906197
36	Discharge 1000 to 1100 M ³ /hour	1 No	3368909

Sl. No.	Description	Unit	Rate for 2022-23 in Rupees
	above 25 m upto 30 m head		
37	Discharge Upto 20 M ³ /hour	1 No	741561
38	Discharge 20 to 100 M ³ /hour	1 No	1029197
39	Discharge 100 to 200 M ³ /hour	1 No	1071509
40	Discharge 200 to 300 M ³ /hour	1 No	1589743
41	Discharge 300 to 400 M ³ /hour	1 No	1589743
42	Discharge 400 to 500 M ³ /hour	1 No	2283750
43	Discharge 500 to 600 M ³ /hour	1 No	2290211
44	Discharge 600 to 700 M ³ /hour	1 No	2290211
45	Discharge 700 to 800 M ³ /hour	1 No	2601085
46	Discharge 800 to 900 M ³ /hour	1 No	2601085
47	Discharge 900 to 1000 M ³ /hour	1 No	2854812
48	Discharge 1000 to 1100 M ³ /hour	1 No	3749622

Note: 1) The above rates are basic rates inclusive of transportation, handling charges.
2) GST extra applicable as per GO

**III (C) RATES FOR
ELECTROMECHANICAL ITEMS**

III (C) RATES FOR ELECTROMECHANICAL ITEMS

Sl.No.	Description of Item	Unit	Rate for 2022-23 in Rupees
1	Selector Switch for Panel Board /Cubical Panel Board/ Starter		
a	Voltmeter Selector Switch - 6A	Each	292
b	Ammeter Selector Switch - 6A	Each	563
2	Multi Functions Meters - Flush type for M V Panel Board		
a	LED type, CT/PT, Voltage, Current, Frequency, Kilowatt, Kilo Volt Ampere, KVAR , KVAH, Run Hours, unbalance(V,A),Rpm, Phase angles,Thd - Class 1 With RS 485 Port	Each	18768
b	LED type, CT/PT, Voltage, Current, Frequency, Kilowatt, Kilo Volt Ampere, KVAR , KVAH, Run Hours, unbalance(V,A), Rpm, Phase angles,Thd - Class 0.5 With RS 485 Port	Each	22938
3	Ammeter - Digital		
a	96 mm X 96 mm Single Phase Ammeter Class 1-5A	Each	2650
b	96 mm X 96 mm Single Phase Ammeter Class 1-1A	Each	2881
c	96 mm X 96 mm Three Phase Ammeter Class 1-5A	Each	3227
d	96 mm X 96 mm Three Phase Ammeter Class 1-1A	Each	3573
4	Pressure Gauge only		
	DELETED		
5	Mechanical Interlocking System for For M V Panel Board		
a	2 lock 1 key	Each	3279
b	3 lock 2 key	Each	5724
6	Ammeter Analog		
a	SR 65 5D/5A C.T.operated-AC	Each	579
b	SR 72 5D/5A C.T.operated-AC	Each	751
c	SR 96 5D/5A C.T.operated-AC	Each	804
7	Voltmeter - Digital		
a	Voltmeter- Single Phase Class 1-AC	Each	2694
b	Voltmeter- Three Phase Class 1-AC	Each	3631

Sl.No.	Description of Item	Unit	Rate for 2022-23 in Rupees
8	Voltmeter Analog		
a	Voltmeter SR 65 600V-AC	Each	634
b	Voltmeter SR 72 500V-AC	Each	831
c	Voltmeter SR 96 600V-AC	Each	920
9	Fabrication & Supply of M V Cubical Panel board vermi proof box of MS sheet 20 SWG powder coated, door with 180 degree opening, poly urethane/rubber gaskets as per IE rules - 1m2		
a	Projection of 0.3 m	per m ²	15407
b	Projection of 0.45m	per m ²	17872
c	Projection of 0.6 m	per m ²	23294
10	Electro magnetic contactors of suitable capacity in AC Three Phase rating, conforming to IS/IEC 60947-4-1.		
a	9Amps	No.	841
b	12Amps	No.	977
c	18Amps	No.	1683
d	22Amps	No.	2785
e	25Amps	No.	3617
f	32Amps	No.	4415
g	40Amps	No.	4594
h	45Amps	No.	5681
i	50Amps	No.	6690
j	70Amps	No.	8995
k	80Amps	No.	11404
l	95Amps	No.	14380
m	110Amps	No.	17324
n	140Amps	No.	22863
o	185Amps	No.	27507
p	225Amps	No.	30281
q	250Amps	No.	34160

SI.No.	Description of Item	Unit	Rate for 2022-23 in Rupees
r	300Amps	No.	41188
s	400Amps	No.	52370
t	550Amps	No.	75101
u	650Amps	No.	112385
11	Overload Relays: Directly operated Bimetallic Thermal overload relay which operates in case of overload and also in case of under voltage with manual and auto reset mode.		
a	Upto 5 A	No.	1333
b	5 A to 10 A	No.	1343
c	10 A to 20 A	No.	1511
d	20 A to 30 A	No.	2188
e	30 A to 50 A	No.	3012
f	50 A to 75 A	No.	4365
g	75 A to 110 A	No.	6453
h	110 A to 150 A	No.	7691
i	150 A to 200 A	No.	8742
j	200 A to 300 A	No.	10529
12	Preventer – Single Phasing		
	Electric Motor protection device against single phasing. The device should protect the motor against single phasing, reverse phasing and unbalance supply. The device should be suitable for any auxillary device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply.	No.	1171
13	Preventer – Dry Run		
	Electric Motor protection device against dry running. The device should protect the motor against Dry running. The device should be suitable for any auxillary device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply	No.	1640

Note: 1) The above rates are basic rates
2) GST extra applicable as per GO

III (D) RATES FOR BUILDING MATERIALS

BUILDING MATERIALS

1. Cement - Rs. 6,040/ – per metric tonne
(Rupees Six Thousand and forty only)

The above rate for cement is basic rate and GST extra applicable as per GO

Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Stock yard/ Dealer's Godown to the site of work, if duly certified by an Officer not below the rank of Assistant Executive Engineer.

However, in the case, if the source is specified as "Stockyard" the same shall be decided and approved by the Superintending Engineers concerned.

2. Steel Rods of all sizes - Rs 58,000/- per metric tonne
(Rupees Fifty Eight Thousand only)

The above rate for steel is basic rate and GST extra applicable as per GO.

Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Stock yard/ Dealer's Godown to the site of work, if duly certified by an Officer not below the rank of Assistant Executive Engineer.

However, in the case, if the source is specified as "Stockyard" the same shall be decided and approved by the Superintending Engineers concerned.

(The above rates are subject to revision as and when revised by the PWD authorities)

BUILDING MATERIALS

Sl. No.	Description	Unit	Rates for 2022-23
1	Bricks-II Class Table Moulded (Chamber burnt)		
a.	9" x 4 1/2" x 3"	1000 Nos.	7887.00
b.	9" x 4 3/8" x 2 3/4"	1000 Nos.	7585.00
2	Bricks-II Class (Ground Moulded Chamber burnt)		
a.	9"x 4 1/2" x3"	1000 Nos.	6795.00
b.	9"x 4 3/8" x 2 3/4"	1000 Nos.	6595.00
3	Bricks-III Class (Country Bricks, Kiln burnt)		
a	22 x 11 x 5 cm (8 3/4" x 4 1/4" x 2")	1000 Nos.	4299.00
b.	22 x 11 x 5.7 cm (8 3/4" x 4 1/4" x 2 1/4")	1000 Nos.	4489.00
c.	22 x 11 x 7cm (8 3/4 " x 4 1/4 " x 2 3/4")	1000 Nos.	5709.00
4	Fly Ash bricks		
a.	230 x 110 x 70mm	1000 Nos.	6595.00
b.	230 x 110 x 75mm	1000 Nos.	6795.00
5	Bricks Country (specially moulded for well steining)		
a.	8 3/4 "x 4 1/4 " x 2"	1000 Nos.	
b.	Perforated Bricks 19 x 9 x 9cm	1000 Nos.	3854.00
c.	Terrace Bricks 15 x 7.5 x 2.5cm	1000 Nos.	989.00
6	Special Bricks 8" x 4" x 2" for Heritage works	1000 Nos.	13365.00
7	Terrace Bricks 6" x 3" x 1" for Heritage works	1000 Nos.	10020.00
8	Wire cut Bricks for Heritage works		
a	Size 9" x 4" x 3"	1000 Nos.	13365.00
b	Size 9" x 4" x 2"	1000 Nos.	11140.00
c.	Size 9" x 6.5" x 2"	1000 Nos.	16705.00
9	Flat Tiles		
a.	15cm x 15cm x 12mm	1000 Nos.	8087.00
b.	15cm x 15cm x 20mm	1000 Nos.	9604.00
10	Brick Jelly		
a.	40mm size	cu.m.	705.00
b.	20mm size	cu.m.	786.00
11	Pressed Tiles		
a.	20cm x 20cm x 2cm	1000 Nos.	11356.00

Sl. No.	Description	Unit	Rates for 2022-23
b.	23cm x 23cm x 2cm	1000 Nos.	16106.00
12	Pan Tiles		
a.	23cm x 8cm x 1.7cm	1000 Nos.	441.35
b.	16.5cm x 8cm x 1.7cm	1000 Nos.	363.30
13	Best Mangalore Tiles		
a.	1 st Class 'A'	1000 Nos.	10594.00
b.	Class 'AA'	1000 Nos.	10807.00
c.	Best Mangalore Ridge Tiles	1000 Nos.	31007.00
d.	Best Mangalore Ceiling Tiles	1000 Nos.	6514.00
e.	Best Mangalore Glass Roofing Tiles	Each	304.00
f.	Best Mangalore Ventilating Tiles (Single)	Each	45.45
g.	Best Mangalore Ventilating Tiles (Double)	Each	57.55
14	Mosaic Flooring tiles GREY		
a.	25cm x 25cm x 2cm	1000 Nos.	11907.00
b.	20cm x 20cm x 2cm	1000 Nos.	7605.00
15	Mosaic (other colour)		
a.	25cm x 25cm x 2cm	1000 Nos.	16432.00
b.	20cm x 20cm x 2cm	1000 Nos.	9696.00
c.	Mosaic (Green)Tile 20cm x 20cm x 2cm	1000 Nos.	11907.00
d.	Mosaic (Green) Tile 25cm x 25cm x 2cm	1000 Nos.	18674.00
e.	Mosaic Chequered Tile of Grey colour size 25 cm x 25 cm x 2 cm	1000 Nos.	14948.00
16	Attangudi Tiles for Heritage Works		
	Size 8" x 8" x 3/4"	Each	26.95
	Size 10" x 10" x 3/4"	Each	32.70
	New item		
	Size 12" x 12" x 3/4"	Each	50.00
	Stone and Road materials		
17	Rough stone for Masonry works (Hard Granite)	cu.m.	449.40
18	Rough stone for revetment works	cu.m.	388.70
19	Jeddy size for revetment (Hard granite)	cu.m.	428.00
20	Cut stone pillar of size 0.15 x 0.15 x 2.1M	Each	165.00
21	From boulders without blasting for revetment	cu.m.	114.10
22	From boulders without blasting for masonry	cu.m.	147.45
23	Course Rubble stone for masonry works	cu.m.	358.50
24	Course Rubble stone for Arch works	cu.m.	388.80

Sl. No.	Description	Unit	Rates for 2022-23
25	Ashlar Arch Stone Fully Dressed to size all faces	cu.m.	4893.00
26	Flooring Stone SS size (Not less than 10cm thick)	sq.m.	356.50
27	Bond stones	cu.m.	648.40
28	Chisel dressed stone		
a.	70cm x 30cm x 29cm	Each	176.70
b.	37cm x 30cm x 29cm	Each	159.50
29	Hammer dressed stone		
a.	37cm x 30cm x 29cm	Each	123.20
30	Cut stone fully dressed to size on all faces	cu.m.	6443.00
31	Cut stone roughly dressed	cu.m.	4433.00
32	Stone slab for culvert (3 faces, one line dressed)		
a.	Above 1.2m	cu.m.	4666.00
b.	Up to 1.2m	cu.m.	4242.00
33	Stone slab for culvert (3 faces, two line dressed)	cu.m.	5191.00
34	For lintel coping (3 faces, two line dressed)	cu.m.	5191.00
35	Kilometre stone 1.65 x 0.45 x 0.15m	Each	443.30
36	Hecta metre stone		
a.	0.90 x 0.10 x 0.10m	Each	123.20
b.	0.75 x 0.23 x 0.10m	Each	226.20
c.	0.90 x 0.15 x 0.15m	Each	222.20
37	Demarcation stone (Two line dressed for top 30cm)		
a.	0.75 x 0.15 x 0.15m	Each	91.90
b.	0.90 x 0.23 x 0.23m	Each	118.10
c.	0.75 x 0.23 x 0.23m	Each	110.00
d.	0.90 x 0.15 x 0.15m	Each	99.90
e.	Demarcation Stone with letters cut 0.75 x 0.15 x 0.15m	Each	123.20
f.	Edge stone 0.45 x 0.15 x 0.15m	Each	56.00
g.	T.R.S. Bench Mark Stone neatly dressed the exposed surface to a height of 15cm including cutting letters		
i)	0.15 x 0.15 x 0.60m	Each	141.40
ii)	0.10 x 0.10 x 0.25m	Each	102.00
38. a.	Guard Stone (Two line dressed for 45cm) 23cm dia 1.0m long	Each	163.60
b.	Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.23m x 0.23m x 1.20m long (Two line dressed top 45cm) 23cm dia 1.0m long	Each	174.70

Sl. No.	Description	Unit	Rates for 2022-23
c.	Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.23m x 0.23m x 0.9m long (Two line dressed top 45cm) 23cm dia 0.90m long	Each	163.60
d.	Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.15m x 0.15m x 0.90m long (Two line dressed top 45cm) 23cm dia 0.90m long	Each	114.10
e.	Guard stone 90cm long 23cm dia	Each	84.20
39	Hard broken Granite stone jelly (I.S.S.) machine crushed / Hand broken.		
i.	90mm size	cu.m.	451.00
ii.	80mm size	cu.m.	505.00
iii.	63mm size	cu.m.	583.00
iv.	50mm size	cu.m.	677.00
v.	40mm size	cu.m.	1054.00
vi.	25mm size	cu.m.	906.00
vii.	20mm size	cu.m.	1467.00
viii.	12mm size	cu.m.	1362.00
ix.	10mm size	cu.m.	1001.00
x.	6mm size	cu.m.	677.00
xi.	3mm size	cu.m.	609.00
40	Quartz metal		
i.	50mm	cu.m.	97.75
ii.	40mm	cu.m.	98.75
42	Laterite 40mm to 75mm size	cu.m.	97.75
43	Kankar 40mm to 75mm size	cu.m.	97.75
44.a	Soling stones 15cm cube (un blasted)	cu.m.	114.10
b.	Soling stones 15cm cube (blasted)	cu.m.	185.80
45.a	Gravel	cu.m.	222.70
b.	Well Gravel	cu.m.	166.50
c.	Screened Kankar Gravel	cu.m.	121.90
46.a	Quarry rubbish	cu.m.	96.65
b.	Stone dust	cu.m.	123.70
c.	Pond Ash (wet /dry)	cu.m.	95.65
d	Crushed Stone Sand (M-Sand)	cu.m.	1312.00
e.	Plastering sand (P- Sand)	cu.m.	1317.00
47	Sand for Mortar	cu.m.	As per G.O Ms. No.4/PW(I.Spl.2) Dept/Dt:06.01.2022
48	Sand for Filling	cu.m.	

Sl. No.	Description	Unit	Rates for 2022-23
49	Clay for puddle and masonry	cu.m.	37.35
50. i)	Cuddapah slab 50mm thick	sq.m	425.00
ii)	Cuddapah slab 38mm/40mm thick	sq.m	408.00
iii)	Cuddapah slab 20mm/30mm thick	sq.m	376.70
	LIME		
51	Shell Lime (Slacked and screened)	cu.m.	1348.00
52	Freshly Slacked and Screened Burnt Lime Stone	cu.m.	993.00
53	Stone Lime or Lime Metal	cu.m.	85.60
54	Unslaked Pollachi Lime for Heritage Works	cu.m.	10345.00
55	Teakwood scantlings (over 3m for joists and rafters) Malabar	cu.m.	116600.00
56	Teakwood scantlings (for tiebeams and principal rafters) - Malabar	cu.m.	114700.00
57	Teakwood scantlings (over 2m and below 3m in length) - Malabar	cu.m.	111600.00
58	Teakwood scantlings(below 2m in length) – Malabar	cu.m.	99400.00
	New item		
	Bentinite Powder - Construction grade	Kg.	6.05
59	Teakwood planks		
i)	Over 45cm wide and 12mm thick.	cu.m.	123100.00
ii)	Over 30cm and up to 45cm wide and 12mm thick	cu.m.	114300.00
iii)	Over 30cm and up to 45cm wide and 12mm to 25mm thick	cu.m.	107000.00
iv)	Over 30cm and up to 45cm wide and 25mm to 40mm thick	cu.m.	102600.00
v)	Over 15cm and up to 30cm wide and 12mm thick	cu.m.	99900.00
vi)	Over 15cm and up to 30cm wide and 12mm to 25mm thick	cu.m.	95000.00
vii)	Over 15cm and upto 30cm wide and 25mm to 40mm thick	cu.m.	93100.00
viii)	Up to 15cm wide and 12mm thick	cu.m.	91300.00
ix)	Up to 15cm wide and 12mm to 25mm thick	cu.m.	91300.00
x)	Up to 15cm wide and 25mm to 40mm thick	cu.m.	86200.00
60	Seasoned Teakwood for Scantling and Planks for Heritage Works	cu.m.	185200.00
61	Teak Wood Reepers		
i)	50mm x 25mm	RM	76.00
ii)	50mm x 12mm	RM	61.00

Sl. No.	Description	Unit	Rates for 2022-23
62	Country wood Scantlings		
i)	Up to 4m in length	cu.m.	34300.00
ii)	Over 4m in length	cu.m.	36200.00
63	Country wood scantlings (for tiebeams and principal rafters for trusses)	cu.m.	36200.00
64	Jack wood Scantlings (up to 4m)	cu.m.	37900.00
65	Silver Oak Scantling	cu.m.	15500.00
66	Country wood planks		
i)	40mm thick- upto 30cm wide	cu.m.	39400.00
ii)	25mm thick - up to 30cm wide	cu.m.	39400.00
iii)	40mm thick - over 30cm wide	cu.m.	39400.00
iv)	25mm thick - over 30cm wide	cu.m.	39400.00
67.a.	Jack wood planks 25 to 40mm thick	cu.m.	41300.00
b.	Silver Oak plank (40mm thick)	cu.m.	17600.00
c.	Blue gum plank	cu.m.	18100.00
68	Country wood reepers		
a.	50mm x 25mm	RM	34.60
b.	50mm x 12mm	RM	24.90
69	Mango Plank	cu.m.	16700.00
70.a.	Palmyrah rafter (50mm to 60mm wide and 125mm depth)	RM	49.50
b.	Palmyrah leaves	100 Nos.	255.00
c.	Palmyrah leaves (Labour for cutting)	100 Nos.	40.20
71	Casurina Poles		
a.	13cm to 15cm diameter	RM	33.00
b.	10cm to 13cm diameter	RM	25.20
c.	8cm to 10cm diameter	RM	19.20
d.	5cm to 8cm diameter	RM	17.50
72	Eucalyptus Poles		
a.	13cm to 15cm dia	RM	33.00
b.	10cm to 13 cm dia	RM	23.60
c.	8 cm to 10 cm dia	RM	19.20
d.	5 cm to 8 cm dia	RM	16.40
e.	Below 5 cm	RM	15.00
73	Eucalyptus Bullies 4cm to 5 cm dia & cross ties	RM	12.00
74	Casurina Bullies 4cm to 5cm dia & cross ties	RM	13.50
75	Bamboo large		
i)	10cm diameter and above	RM	12.00

Sl. No.	Description	Unit	Rates for 2022-23
ii)	7.5cm to 10cm diameter	RM	10.60
	METAL AND IRON ITEMS		
76	Mild steel plates or sheets BG 10	Kg.	53.00
77	Mild Steel Angles 25mm x 25mm x 3mm	Kg.	53.00
78.a)	Binding wire (Black 18G)	Kg.	56.35
b)	Binding wire (Galvanised – 18G)	Kg.	56.35
79	G.I. sheets 30cm wide and 1.6mm thick	sq.m.	391.10
80	Weld mesh		
i)	7.5 x 2.5cm, 10 gauge	sq.m.	379.90
ii)	7.5cm x 5cm, 10 gauge	sq.m.	339.60
iii)	10cm x 10cm, 10 gauge	sq.m.	183.80
81	Chicken Mesh	sq.m.	40.65
82	Fly Proof Mesh	sq.m.	116.55
83	Supplying mild steel grills for windows, ventilators, etc., including priming coat	Kg.	70.15

Note:

1. For Road works, the Schedule of Rates of Highways Department may be adopted in respect of materials for which rates are not available in this schedule of rates.
2. For all the materials viz. Bricks and Tile products, Stone Jelly, Gravel, Sand, Lime Stone etc., necessary incidental charges, loading charges and unloading charges have been included in the basic cost of materials listed above. Hence no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
3. The Basic rate adopted is exclusive of all taxes and GST
4. The cost of sand as indicated Sl.No.47 & 48 is at Government sand Depot

III (E) RATES FOR OTHER CONSTRUCTION MATERIALS

RATES OF OTHER CONSTRUCTION MATERIALS

Note: No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work.

Sl. No.	Name of Material	Unit	Rate 2022-23
1	Water proofing compound	Kg	42.70
2	Mild Steel Flats of all sizes	Kg	52.10
3	Mild Steel Square Rods of all sizes	Kg	52.10
4	First Quality Design Ceramic tiles of All colours		
i	305 mm x 305 mm x 6 mm	Each	49.00
ii	200 mm x 200 mm x 6 mm	Each	21.50
iii	200 mm x 100 mm x 6 mm	Each	11.60
5	First Quality Plain ceramic tiles of all colours		
i	305 mm x 305 mm x 6 mm	Each	35.15
ii	200 mm x 200 mm x 6 mm	Each	15.70
iii	200 mm x 100 mm x 6 mm	Each	8.00
6	Joint free Rectified Glazed Ceramic Flooring Tiles 305 x 305 x 8 mm	Each	57.80
7	Solar Reflective Ceramic Tiles of Size		
i.	305mm x 305mm x 7mm thick	sq.m.	506.00
ii.	305mm x 240mm x 6mm thick	sq.m.	418.00
8	Dadoing Ceramic Tiles of Size		
i.	300mm x 450mm x 8mm	Each	62.40
ii.	300mm x 600mm x 10mm	Each	92.70
9	First quality White glazed tiles		
i	150 mm x 150 mm x 6 mm	Each	8.30
ii	100 mm x 200 mm x 6 mm	Each	7.25
10	First quality colour glazed tiles		
i	150 mm x 150 mm x 6 mm	Each	9.65
ii	100 mm x 200 mm x 6 mm	Each	8.30
11	First quality colour glazed tiles with printed design		
i	150 mm x 150 mm x 6 mm	Each	11.40
ii	100 mm x 200 mm x 6 mm	Each	10.25
	Colour designed glazed tiles 300 x 300 x 6mm	Each	30.80
12	Stain free Nano polish Vitrified Tiles 600 x 600 x 8mm	sq.m.	658.00
13	Double charged Vitrified Tiles 600 x 600 x 8mm	sq.m.	982.00
14	Double charged Vitrified Tiles 800 x 800 x 10mm	sq.m.	1253.00

Sl. No.	Name of Material	Unit	Rate 2022-23
15	Pre -Polished concrete Antiskid Step Tiles of 20mm Thick	sq.m.	653.00
16	Rubber Moulded Hydraulic Pressed Paver Block		
i	83mm thick	sq.m.	552.00
ii	63mm thick	sq.m.	459.00
17	TAMIN Paver Block of size - Supply at site		
i	60mm thick	sq.ft.	51.50
ii	80mm thick	sq.ft.	61.60
18	Tactile paver Type of New Tek BT Yellow colour ceramic tiles of size 305x305x15mm for vision Impairment person	sq.m.	2040.00
19	Providing and filling the tile joint with epoxy grout with following specification: Surface preparation including cleaning the joint to be free from dust and loose particles. Providing masking tape on either side of the tile joint edges and providing sealing the tile gap with epoxy tile joint grout and finishing neatly and as directed by the departmental officers. the rate inclusive of cost of materials and labour, etc., complete.	sq.m.	438.00
20	SRC Cement (Sulphate Resistant Cement)	50 kgs/ bag	311.00
21	Slag Cement	50 kgs/ bag	279.00
22	White Cement	Kg	22.60
23	Colour Cement (White cement mixed with colouring pigments)	Kg	27.25
24	Multi-colour marble chips of all Grades / Sizes	Bag	91.10
25	White Marble slab (Adanga) 18 mm to 20 mm thick		
i	4'0" x 2'0" and above	sq.m.	1403.00
ii	2'0" x 2'0" or 2'0" x 1'0" or 1'0" x 1'0"	sq.m.	700.00
26	Granite tiles - (Superfine polished with Machine cut edges) of size 2'0" x 1'0" or 1'0" x 1'0" or 1'0" x 0'6", of 10 mm thick		
a	Jet Black	sq.m.	886.00
b	Ruby Red, Raw Silk	sq.m.	793.00
c	Sinthetic Grey, Paradise and Similar varieties.	sq.m.	749.00

Sl. No.	Name of Material	Unit	Rate 2022-23
27	Granite slabs (Super fine polished with machine cut edges) of sizes 4'x2' and above 18mm to 20mm thick.		
a	Jet Black	sq.m.	1737.00
b	Ruby Red, Raw Silk	sq.m.	1626.00
c	Sinthetic Grey, Paradise and Similar varieties.	sq.m.	1462.00
d	Fine polished Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm thick	sq.m.	1512.00
e	Fine polished Blue Pearl Granite Slab 1200mm x 600mm, 16mm to 18mm thick	sq.m.	7571.00
28	Flamed Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm thick	sq.m.	1832.00
29	Flamed Ruby Red Granite Slab 1200mm x 600mm, 16mm to 18mm thick	sq.m.	1946.00
30	Nosing for Granite slab		
a	Single Nosing	RM	195.70
b	Double Nosing	RM	370.25
31	Grooving the Granite Slab	RM	303.00
32	Polished shahabad stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above.	sq.m.	376.00
33	Polished shahabad stone slabs 20 mm thick with machine cut edges of size below 2' 0" x 2'0".	sq.m.	318.00
34	Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above.	sq.m.	550.00
35	Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size below 2'0" x 2'0".	sq.m.	484.00
36	Dolphur stone slabs - semi polished with machine cut edges of all sizes		
a	40 mm thick	sq.m.	420.00
b	20 mm thick	sq.m.	381.00
37	PVC Trims (Beading)	RM	95.40
38	Teracota Jally of size 20x20x0.75mm	Each	38.95
39	Aluminium strips of size 40 mm wide x 1.5 mm thick	RM	36.60
40	Brass strips of size 40 mm wide x 1.5 mm thick	RM	69.15

Sl. No.	Name of Material	Unit	Rate 2022-23
41	Glass strips of size 40 mm wide and 4 mm thick	RM	15.65
42	Marblex Tiles 3 mm thick	sq.m.	696.00
43	Red Oxide - Superior quality for floor finish	Kg	145.20
44	Decorative pressed tiles of 12 mm thick of all sizes and shapes	sq.m.	1075.00
45	Exterior Emulsion Paint - Water based primer (Liquid)	Litre	151.30
46	Alkali Resistant Distemper Primer	Litre	135.60
47	Sandtex matt	Litre	158.00
48	Vinaratex or equivalent Textured coat	sq.m.	203.90
49	Best Lac Polish / French Polish	Litre	264.10
50	Varnish	Litre	271.20
51	Cotton Waste	Kg	10.40
52	Cement based Hydraulically pressed Anti skid tiles (pattern design) - 20 mm thick	sq.m.	525.00
53	Marble Powder	Kg	4.54
54	Polishing Stone		
i	Rough	Each	67.00
ii	Medium	Each	89.50
iii	Fine / Nice	Each	102.70
55	Oxalic Acid	Kg	38.75
56	Turpentine	Litre	23.70
57	Mansion polish	400 gram	149.15
58	Poly Sulphide	Kg	177.00
59	Primer for expansion joints	Kg	152.20
60	Filler material	sq.m.	145.20
61	Bond Breaker	RM	3.73
62	Bentonite powder for construction quality	kg	6.05
63	PVC Water Bar 150mm wide with single bulb	RM	299.80
64	Plain G.I. sheet 0.8mm thick (22 Gauge)	sq.m.	364.60
65	Phil Plug	Each	5.05
66	G.I. Screws		
i	30mm x 6mm	Each	1.28
ii	19mm x 6mm	Each	0.81

Sl. No.	Name of Material	Unit	Rate 2022-23
67	G.I. Limpet / Cup Washers	Each	1.89
68	Bitumen washers 15mm dia	Each	1.13
69	Asbestos Cement pipe - 100mm dia	3 RM	144.10
70	A.C. shoe - 100mm dia	Each	45.70
71	A.C. Bend - 100mm dia	Each	52.30
72	A.C. Cylindrical Cowl - 100mm dia	Each	78.45
73	C.I. Brackets for A.C. pipe 100mm dia	Each	20.05
74	C.I. Grating - 100mm dia	Each	32.10
75	Asbestos cement fully corrugated sheet - 6mm thick	sq.m.	189.65
76	Asbestos cement plain sheet		
i	6mm thick	sq.m.	170.15
ii	4mm thick	sq.m.	117.85
77	Supplying and fixing shade net (Green net) for under construction of high rise buildings	sq.m.	67.25
78	Asbestos cement adjustable ridges	Pair	196.45
79	G.I. "J" or "L" Bolts with nuts 6mm Dia	Each	3.91
80	Steel - special extruded sections for steel windows and ventilators conforming to I.S.S. 7452 / 1990 including Fabrication charges	Kg	69.60
81	CRCA pressed steel Box section 18 Gauge or 1.25mm thick for Door frames including providing holes and fixing wooden blocks for fixing furniture and fittings		
a	With one coat of Red oxide priming coat.	RM	360.00
b	With powder coated primer	RM	383.80
82	Aluminium extruded sections (for Doors, windows, ventilators, partitions, false ceiling etc.) including charges for Anodising for 15 micron thickness		
a	Natural colour matt finish.	Kg	325.00
b	With powder coating of any colours.	Kg	347.70
83	Aluminium Extruded Box Section for Staircase Hand Rails including charges for Anodising for 15 micron thickness - Natural colour matt finish	Kg	390.90
84	Rubber beading for aluminium glazed doors	RM	38.25
85	Rubber beading for aluminium glazed windows.	RM	29.05

Sl. No.	Name of Material	Unit	Rate 2022-23
86	PVC / Woollen felt for aluminium doors 6mm thick	RM	7.95
87	Pivot for Aluminium Door	Set	160.70
88	Hydraulic Door closer of various sizes of approved quality using Aluminium Extruded section body tubular type universal hydraulic door closer with double speed adjustment like HARDWYN (make) 'GAZEL' (or) equivalent (with ISI Monogram)	Each	1008.00
89	Hydraulic Floor springs of various sizes double action hydraulic floor spring of approved quality, brand, manufacture as per BIS standards for doors including cost of cutting floors as required, embedding in to floors and Stainless Steel Cover plates with Aluminium Pivot and single piece M.S. sheet outer box with side plate etc., capable of taking upto 130 Kg. weight from door shutter, like HARDWYN make (U-32) or its equivalent with ISI monogram.	Each	2095.00
90	Lock for Aluminium doors	Each	284.50
91	Lock for Aluminium sliding windows	Each	71.10
92	Aluminium Grill of standard pattern (diamond shape) - 10mm thick including 'F' (or) 'H' Section.	sq.m.	2079.00
93	Aluminium Grill of standard pattern (diamond shape) - 6mm thick including 'F' (or) 'H' Section.	sq.m.	1679.00
94	Bolts and Nuts 10mm dia for false ceiling	Each	5.65
95	Rawl Plugs for false ceiling	Each	9.50
96	PVC Roller for sliding windows	Each	14.60
97	Synthetic Resin - Fevicol or equivalent (Phenol Formaldehyde based Resin)	Kg	199.75
98	Steel door/ Window fittings - 200mm length hold fast	each	168.00
99	300mm hinges (heavy duty)	each	117.60
100	250 mm length Tover bolt	each	128.80
101	250mmx16mm aldrop	each	235.30
102	200mm MS handles (heavy duty)	each	84.00
103	Window stay	each	156.90

Sl. No.	Name of Material	Unit	Rate 2022-23
104	Stopper and handle	each	145.70
105	Butt Hinges with nylon washers of various sizes. Length and width (with required screws).		
a	125mm x 30mm	Each	89.60
b	100mm x 30mm	Each	71.90
c	75mm x 30mm	Each	49.35
d	50mm x 30mm	Each	39.85
106	Brass Hinges		
a	125mm x 30mm	Each	214.10
b	100mm x 30mm	Each	183.60
c	75mm x 30mm	Each	152.60
d	50mm x 30mm	Each	127.45
107	Tower Bolts of various lengths and diameter (with required screws)		
a	400mm long and 12mm dia	Each	169.60
b	300mm long and 12mm dia	Each	130.50
c	250mm long and 12mm dia	Each	97.85
d	200mm long and 12mm dia	Each	82.25
e	150mm long and 12mm dia	Each	64.80
f	100mm long and 10mm dia	Each	57.00
g	75mm long and 10mm dia	Each	39.70
107	Brass Tower Bolts		
	400mm x 12mm	Each	1020.00
	300mm x 12mm	Each	764.00
	200mm x 12mm	Each	540.00
	150mm x 12mm	Each	408.00
	100mm x 10mm	Each	326.00
	75mm x 10mm	Each	204.00
108	Aldrops of following lengths and diameter with required screws, bolts and nuts.		
a	300mm long and 16mm dia	Each	209.90
b	250mm long and 16mm dia	Each	181.00
c	200mm long and 16mm dia	Each	122.50
d	200mm long and 12mm dia	Each	101.60
109	Brass Aldrops		
a	300mm x 16mm	Each	968.00
b	250mm x 16mm	Each	836.00
c	200mm x 16mm	Each	714.00
d	200mm x 12mm	Each	510.00

Sl. No.	Name of Material	Unit	Rate 2022-23
110	Handles "D" type of various sizes with required screws		
a	200mm long	Each	64.25
b	150mm long	Each	57.65
c	100mm long	Each	35.30
111	Ornamental handles of various sizes with required screws		
a	200mm long	Each	165.80
b	150mm long	Each	110.40
c	100mm long	Each	60.90
112	Brass Ornamental Handles		
a	200mm	Each	396.90
b	150mm	Each	254.50
c	100mm	Each	182.80
113	Aluminium door stopper with rubber bush with required screws	Each	49.55
114	Rubber bush - 40 mm dia and 60 mm long with required screws	Each	23.10
115	Mortice Lock-(Godrej or equivalent) with required screws with 3 Keys		
a	With night latch	Each	540.00
b	Without night latch	Each	400.00
c	Wire nails	Kg	64.00
116	Teakwood beading		
a	15mm x 12mm	RM	15.45
b	35mm x 12mm	RM	39.00
117	Teakwood Beading (ordinary)		
a	30mm x 12mm	RM	32.50
b	25mm x 12mm	RM	26.05
118	Teakwood beading - Ornamental / design		
a	40mm x 12mm	RM	91.50
b	40mm x 15mm	RM	104.80
c	25mm x 12mm	RM	71.70
d	15mm x 12mm	RM	49.15

Sl. No.	Name of Material	Unit	Rate 2022-23
119	Medium Density Fibre (MDF) Board - Exterior Grade, Both sides pre-laminated including external lipping with kiln dried soft wood 35mm thick	sq.m.	2180.00
120	Medium Density Fibre (MDF) Board - exterior Grade - Both sides pre-laminated, 12mm thick	sq.m.	1050.00
121	MDF Board exterior Grade - Plain including external lipping with kiln dried soft wood		
i	35mm thick	sq.m.	1777.00
ii	30mm thick	sq.m.	1641.00
122	Medium density fibre (MDF) Board 12 mm thick Exterior grade - with melamine finish.		
a	One side melamine finish	sq.m.	1111.00
b	Both sides melamine finish	sq.m.	1251.00
123	Medium density fibre (MDF) board - Exterior grade - Plain - With teak wood external lipping around		
a	35mm thick	sq.m.	1914.00
b	30mm thick	sq.m.	1698.00
124	Solid core Flush shutters with Teak ply on both side with teak wood lipping around 35 mm thick	sq.m.	2255.00
125	Solid core Flush shutters with Teak ply on one side and commercial ply on other side with teak wood lipping around 35 mm thick	sq.m.	1982.00
126	Solid core Flush shutters with commercial ply on both side with teak wood lipping around 35 mm thick	sq.m.	1698.00
127	Providing cup board Shutter with frame using termite/ water proof plywood of 19mm thick over which laminated sheet of 0.8mm thick fixed inside the shutter and 1mm thick fixed outside the shutter using fevicol along with necessary furniture fittings such as hydraulic hinges tower bolt handles multi purpose locks etc as directed by the Departmental officers. The design pattern water proof plywood laminate sheet and other materials should be got approved from the Executive Engineer before use on work	sq.m.	5047.00

Sl. No.	Name of Material	Unit	Rate 2022-23
128	Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter.		
a	Solid panel PVC door with frame	sq.m.	3325.00
b	Solid panel PVC door without frame	sq.m.	2800.00
129	Supplying and fixing of PVC sliding door with roller	sq.m.	3562.00
130.a	FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3mm wall thickness for styles and rails etc., of sizes specified by Engineers.	sq.m.	3996.00
b	Excluding door frames	sq.m.	3069.00
131.a	PVC panelled door shutters hollow type - 200 mm x 20 mm panels with 1 mm wall thickness for panels and styles and rails of suitable size with 2 mm wall thickness suitably reinforced using MS Angle / Flat including cost of necessary Aluminium hinges and other furniture fittings.	sq.m.	2135.00
b	Excluding door frames	sq.m.	1803.00
132	RCC door frame of 100mm x 65mm cross sectional size with necessary rebate for housing the shutters, manufactured with cement concrete of grade not less than M20 using 10 mm and below graded stone jelly and using steel reinforcement as per C.E. (B) circular instructions.	RM	279.70
133	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1 mm thick) of size 100 mm x 60 mm with a rebate of 30/ 35 mm x 15 mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel Hold fast etc.,	RM	918.00

Sl. No.	Name of Material	Unit	Rate 2022-23
134	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1.6mm thick) of size 100mm x 60mm with a rebate of 30/35mm x 15mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel hold fast etc.,	RM	1241.00
135	Supplying and erecting pull and push type rolling shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc.,		
A	ROLLING SHUTTERS (WITH ISI MONOGRAM)		
a	Manually operated (up to 8 m ² area)	sq.m.	2171.00
b	Gear operated type (from 8 m ² to 12 m ² area)	sq.m.	2419.00
c	Electrically operated type (exceeding 12m ² area)	sq.m.	2626.00
B	ROLLING GRILLS (WITH ISI MONOGRAM)		
a	Manually operated (up to 8 m ² area)	sq.m.	2213.00
b	Gear operated (from 8 m ² to 12 m ² area)	sq.m.	2492.00
c	Electrically operated (exceeding 12 m ² area)	sq.m.	2770.00
136	Barbed Wire - 10 Gauge - Two ply and four pronged (Galvanised)	1 Kg or 6 RM	62.10
137	Chain link - 2" x 2" using 10 Gauge Galvanised Iron Wire (of all sizes)	sq.m.	160.25
138	Pin Headed / Fluted / Figured Glass 3mm thick	sq.m.	226.60
139	Plain Glass - 4mm thick	sq.m.	306.90
140	Plain Sheet Glass - 5.5mm thick	sq.m.	362.50
141	Metal screws (for Aluminium Doors, windows etc.)		
i	75mm x 8mm	Each	2.21
ii	38mm x 6mm	Each	1.54
iii	19mm x 8mm	Each	1.08
iv	19mm x 6mm	Each	0.81
142	Cement paint (First quality)	Kg	49.85
143	Oil Bound Distemper	Kg	73.80
144	Acrylic Distemper	Kg	85.20
145	Primer for Plastic Emulsion paint	Litre	147.50
146	Plastic Emulsion paint (First quality)	Litre	295.60
147	Wood Primer	Litre	147.50
148	Synthetic Enamel paint for Wood work	Litre	238.90
149	Red Oxide primer for Iron work	Litre	136.90

Sl. No.	Name of Material	Unit	Rate 2022-23
150	Synthetic Enamel paint for Iron work	Litre	227.60
151	Melanine polish	sq.m.	648.00
152	Exterior Emulsion Paint	Litre	303.80
153	Painting the wall with texture finish paint including labour charges	sq.m.	412.00
154	White wall putty powder	kg	27.45
155	Sand paper (Water proof abrasive sheet)	each	10.20
156	8" putty blade	Dozen	122.30
157	6" putty blade	Dozen	91.80
158	Brass chromium plated screw down Tap 15 / 12mm Dia (Heavy Type)	Each	206.00
159	Brass chromium plated pillar Tap (Heavy type)-15/12mm Dia	Each	269.00
160	PVC screw down tap Heavy type 20mm dia	each	93.40
161	PVC screw down tap Heavy type 15mm dia	each	72.40
162	Chromium plated stop cock 15mm Dia	Each	151.30
163	Brass chromium plated shower Rose - 100mm Dia	Each	194.60
164	CP wall mixture tap 3 in 1 system with hand showers	Each	4146.00
165	CP two way bib cock with health faucet	Each	2060.00
166	CP Shower Arm with Overhead shower rose	Each	1181.00
167	Wooden plug, clamp and screws	Set	12.20
168	Shellac	100 gram	18.45
169	PVC Adhesive (Solution)	100 gram	36.00
170	UPVC Adhesive	100 gram	84.80
171	CPVC Adhesive	100 gram	116.50
172	Vajjram for heritage works	Kg	78.45
173	Thread Ball	Each	3.60
174	CP Heavy duty Bottle trap 32mm	Each	1105.00
175	CP Angle cock tap	Each	776.00
176	Oriya Type Indian Water closet 580mm x 440mm with "P" or "S" Trap		
i	White	Set	1201.00
ii	Colour	Set	1534.00
177	European Water closet with "P" or "S" Trap with Double Flapped seat and seat cover with Brass Hinges and 10 litre capacity PVC low level flusing tank with all internal fittings		
i	White	Set	3090.00

Sl. No.	Name of Material	Unit	Rate 2022-23
ii	Colour	Set	3484.00
178	European water closet with "P" or "S" Trap with Double falpped seat and seat cover with Brass Hinges and 12.5 litre capacity Porcelin low level flushing tank with all internal fittings		
i	White	Set	4353.00
ii	Colour	Set	5241.00
179	PVC low level flushing tank with all internal fittings (wall moubnting type)		
a	White - 10 litre capacity	set	995.00
b	White - 7.5 litre capacity	set	760.00
c	Colour - 10 litre capacity	set	1127.00
d	Colour - 7.5 litre capacity	set	895.00
e	PVC water tank	litre	10.05
180	SS Elbow Action tap of size 15mm	Each	1545.00
181	SS Heavy Duty long body tap 15mm	Each	1545.00
182	SS Swan Neck Tap	Each	1030.00
183	Wash Hand Basin of size 550mm x 400mm with all accessories such as cast iron brackets, 32mm dia C.P. waste coupling, rubber plug and chain, 32mm dia 'B' Class G.I. waste pipe, 15mm dia G.M. wheel valve, 15mm dia nylon connection, 15mm dia brass nipples, 15mm C.P. pillar tap etc.		
i	White without pedastal	Set	1672.00
ii	White with pedastal	Set	2012.00
iii	Colour without pedastal	Set	2239.00
iv	Colour with pedastal	Set	2477.00
184	White Porcelin Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe and 32mm dia C.P. waste coupling.	Set	2147.00
185	Cuddapah Slab Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe & 32mm dia C.P. waste coupling.	Set	769.00
186	Cuddapah Slab Sink of size 600mm x 600mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe & 32mm dia C.P. waste coupling.	Set	1020.00
187	Stainless Steel Sink		
a	600mm x 600mm x 200mm	Each	9180.00

Sl. No.	Name of Material	Unit	Rate 2022-23
b	600mm x 450mm x 200mm	Each	7140.00
188	Lipped Mouth Porcelin Flat Back Urinal with all accessories such as 32mm dia Bell mouth PVC connection, 15mm dia G.M. wheel valve, 15mm dia 'B' Class G.I. waste water pipe, 15mm dia nylon connection, 15 mm dia brass nipple etc.,		
i	White	Set	940.00
ii	Colour	Set	1075.00
189	Supplying and fixing of SS Sink of size 1200x550x180mm	Each	18540.00
190	Supplying and fixing of Granite Sink of size 600x600x250mm	Each	4141.00
191	Supplying and fixing of Ornamental type White glazed Porcelain corner L type Wash hand Basin of size 350mm	Each	3553.00
192	Supplying and fixing of Oval shape wash hand basin of size 560x450mm	Each	2899.00
193	Supplying and fixing of white glazed porcelain oval shape special type Urinal of size 382 x 398 x 601mm	Each	10060.00
194	Porcelin soap dish of size 150mm x 150mm x 50mm		
i	White	Each	196.20
ii	Colour	Each	268.80
195	Brass chromium plated soap tray of size 150mm x 100mm	Each	165.10
196	Brass chromium plated towel rail 60cm long and 20mm dia with Brackets	Set	269.00
197	SS Towel rack 600mm long with lower hanger	Each	1545.00
198	Anodised Aluminium Towel Rail 60cm long and 20mm dia with Brackets.	Set	145.15
199	PVC / Fibre Glass framed 5.5mm thick mirror, shelf type with Hard Board Backing		
i	600mm x 450mm	Each	494.70
ii	500mm x 400mm	Each	398.30
200	Special type Mirror of size 1000x780mm	Each	2575.00
201	Stone ware gully trap of size 150mm x 100mm with cast Iron Double Gratings	Each	170.35
202	Cast Iron Nahini / Floor Trap with stainless Steel Grating		
i	100mm x 75mm	Each	276.90
ii	75mm x 50mm	Each	216.90

Sl. No.	Name of Material	Unit	Rate 2022-23
203	PVC Nahini / Floor Trap with PVC Grating		
i	100mm x 75mm	Each	178.00
ii	75mm x 50mm	Each	156.00
204	Spun Yarn	Kg	13.10
205	Hemp Yarn	Kg	11.80
206	Gunny Tape / Kithan	sq.m.	11.80
207	Tar	Kg	41.10
208	Bitumen Felt 15 mm thick pad	sq.m.	234.30
209	Supplying, fabricating, erecting and fixing Hilux (or) Equivalent Board false ceiling upto a ceiling height of 4.5m from floor level.		
a	Using Hilux Board plain sheets (10mm thick)	sq.m.	972.00
b	Using perforated sheets (10mm thick)	sq.m.	994.00
210	Supplying and laying Glass wool for insulation including necessary packing materials.		
a	Using 50mm thick Glass wool	sq.m.	392.60
b	Using 25mm thick Glass wool	sq.m.	209.00
211	Supply and installation of Anutone (or) Euivalent Brand of Acoustical False Ceiling of subtex nubby, square edge, glass fibre core fully encapsulated ceiling tile of size 595 x 595 x 15mm having volume density 120 Kgs / m3, weight 1.8 / 2.4 / 3 kg /m2 which is suspended by using 0.3mm thick skelet trellis T15metal grid system. Skelet trellis T15 metal grid system of 600 x600mm module includes skelet WA15 W30 wall angle with unequal flanges of 15 / 19mm, length 3000mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fasteners at 300mm centers. Then suspend the skelet MT15 W36 MainT with flange width 15mm, height 32mm and length 3600mm, from the soffit slab with help of soffit cleat and wire rod with leveling spring clip at 1200mm centres. Skelet CT15 W12 CrossT with flange width 15mm, height 26mm and length 1200mm is interlocked into the pre-cut slots in the Main T15 at 600mm centers in the perpendicular direction to the Main T15. Finally, the skelet CT15W06 CrossT with flange width 15mm, height 26mm and length 600mm are interlocked into the pre-cut slots in the CT15W12 CrossT in direction parallel to the Main T15 to result in 600 x 600mm module. The subtex nubby square edge of size 595 x 595 x 15mm shall be placed into the grid size of 600x 600mm. Ensure arrow marks behind the tiles are oriented in one direction to achieve uniform shade. The systems to achieve noise	sq.m.	1734.00

Sl. No.	Name of Material	Unit	Rate 2022-23
212	Supply and installation of Anutone (or) Equivalent Brand of Acoustical False Ceiling of Sisoli Serene / Slate Spirts / Slate Polka Mineral Fibre/ GRG Core Ceiling Tiles of size 595 x 595 x 15mm having volume density 270 kgs / m3, weight 4kg / m2 which is suspended by using 0.3mm thick skelet trellis T15 metalgrid system. The skelet trellis T15 metal grid system of 600 x600mm module includes skelet WA15 W30 wall angle with unequal flanges of 15 / 19mm, length 3000mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fasteners at 300mm centers. Then suspend the skelet MT15 W36 MainT with flange width 15mm, height 32mm and length 3600mm, from the soffit slab with help of soffit cleat and wire rod with leveling spring clip at 1200mm centres. Skelet CT15 W12 CrossT with flange width 15mm, height 26mm and length 1200mm is interlocked into the pre-cut slots in the Main T15 at 600mm centers in the perpendicular direction to the Main T15. Finally skelet CT15 W06 CrossT with flange width 15mm, height 26mm and length 600mm are interlocked into the pre-cut slots inthe CT15 W12 CrossT in direction parallel to the Main T15 to result in 600 x 600mm module. Sisoli Serene / Slate Spirts / Slate Polka of size 595 x 595 x 15mm shall be placed into the grid size of 600 x 600mm. The systems to achieve noise reduction coefficient not less than 0.5 NRC, so as to have an eatappearance as	sq.m.	968.00
213	Supply of laying of Anutone (or) Equivalent Brand of Acoustical Insulation of Sound Synth Polywool, 50mm thick made from recycled poly fibre and fully recyclable, surface density 1000 g / m2, weight 1.0 kg / m2 in form of rolls of 600mm wide and 15m in length, adhered to surface with stick S7 adhesive or held in position with chicken wire mesh etc., complying to standard speciation.	sq.m.	428.00
214	Providing Polymer coating (water proof coating) for sunken portion of toilet with following specification and the surface shall be cleaned to remove all dust, foregin, matters lose material or any other deposits of contamination by rubbing with wire brush. Slurry: Dry blend and polymer liquid blend shall be mixed into the desired ratio as per recommendation of the supplier. The mix shall be stirred thouroughly until no bubbles remain in the mix . Any lumps found shall be removed. Apply first coat of polymer modified cementatitious slurry by brush on wet cleaned surface. After drying, second coat shall be applied on the first coat as directed by the departmental officers. The rate inclusive of cost of materials and labour etc., complete	sq.m	329.00

Sl. No.	Name of Material	Unit	Rate 2022-23
215	Providing Cornice work for Gyp Board false ceiling	RM	190.40
216	8mm thick Calcium Silicate Board designed and perforated for false ceiling	sq.m	1545.00
217	Termite proof/ water proof plywood 19mm thick	sq.m	1339.00
218	Laminated sheet 0.8mm thick (inside)	sq.m	246.40
219	Laminated sheet 1mm thick (outside)	sq.m	412.00
220	Squatting Urinal	Set	454.50
221	CI Brackets for fixing the sink	set	107.90
222	Swan Neck Tap	Each	252.50
223	Brass Screws (30 x 6 mm)	Each	2.41
224	Brass Screws (75 x 10 mm)	Each	4.88
225	Special clamp, teak wood plugs and screws	Set	21.60
226	PVC Clamp, teak wood plugs and screws	Set	8.50
227	Teak Wood plug	Each	1.08
228	Teak wood plug (50 x 50 x 100 mm)	Each	5.40
229	Manhole cover 60 x 60 cm (heavy duty) with frame	Each	1864.00
230	Welding Charges		
a	50 mm	Each	2.11
b	40 mm	Each	1.64
231	Add for painting/ tarring for Hex Nipple	Each	2.82
232	Labour charges for fixing cuddapah slab to cup board	sq.m.	45.95
233	Hire charges for polishing machinery	Day	228.60
234	Electricity charges	Unit	11.90
235	PVC Mould CI steps for sump	Each	230.20
236	VerticalBlinds		
a	Ordinary	sqm	922.00
b	Premium	sqm	1383.00
237	Stainless steel Health faucet	Each	1013.00
238	High Density Fibre (HDF) Board	sqm	2210.00

Sl. No.	Name of Material	Unit	Rate 2022-23
239	Providing and fixing of Aluminium Composite Panel (ACP) 4 sided having 50 x 25 x 1.50mm frame work vertical and horizontals out of specially designed extruded sections withstand wind pressure of 180 Kg/sq.m and fabricated fixed at all level elevation and heights. The extruded section cutting and fixing required space extruded section shall be of 6063 and alloy of BSH 9 confirming T is 63400 rate shall included to fix the main frame with necessary clamps, fasteners, bolt nuts etc. The main frame of extruded section shall be of 22843 & 22739 (H9) grade conforming to BS 4174 (or) IS 8147. Rate shall included 4mm thick ACP sheet (0.25 + 3.5 + 0.25) alstrong or equivalent fixing with spacer tape and the ACP sheet bounded with special type structural sealant of dow corning 789 or equivalent in dust free conditions the gaps between ACP sheet to be filed with whether sealant and backer rod or 12mm foam sheet to ensure water and air tightness in all complete complying with standard specification as directed by the departmental officer	sqm	4836.00
240	Designing the Semi Unitised Structural Glazing System with open groove joint as per design intent, preparation of shop drawings for approval, supply, fabricate, erect as per approved shop drawings at all floor levels and all floor heights including conducting field test as per the test criteria set out in the particular specification (Methodlogy should be got approved by the Dept. Officials.) Design the framing system (1.e. male & Female frame) to support vision panels, spandrel panels either with glass or aluminium composite panel, openable, window panels on a continuous framing supported between floors. Also design the split framing unutilized glazing system in case of strip or punched windows with vision panel proposed with either insulated / Monolithic glass, groove width in the system both in horizontal and vertical shall not be more than 20mm. Glazing of panel shall be done only at factory at the controlled atmosphere	sqm	4841.00
241	Bitumen Pad		
a	12mm thick	sqm	479.00
b	29mm thick	sqm	719.00
242	Providing strong room for door for sub treasuries	each	298750.00

Sl. No.	Name of Material	Unit	Rate 2022-23
243	<p>Pre-painted Galvanized Iron Windows (Air Tight Model) with Grill and Glass: Providing and fixing Ajanta Cave Model Window fabricated from roll formed sections made of galvanized steel colour coated/powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/ sqm.) with total coated thickness of 0.60mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Sections for shutter should be of 46 x 46mm and external frame should be of 46 x 52mm. Section for glass beading should be of 18 x 25mm and centre mullion should be of 46 x 70mm. Fixing details: The frame and shutter sections should be cut to length and mitre joined with corner bracket made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPD) Gasket should be used all around glass in shutter between frame and glazed shutter and both sides of fixed glass. Accessories: Handle made of high grade aluminium powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon. Glass: Glass shutter and fixing glass portion should be provided with a glass of 5mm plain float glass. Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" Intervals. Total grill unit should be power coated and fixed to window frame with screws. The above frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm	5508.00

Sl. No.	Name of Material	Unit	Rate 2022-23
244	<p>Pre-painted Galvanized Iron Windows (Semi Air Tight Model) with Grill and Glass: Providing and fixing Eco 3000 Series Window fabricated from roll formed sections made of galvanized steel colour coated/ powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/sqm.) with total coated thickness of 0.58mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Sections for frame should be of 48 x 50mm, section for glazed shutter frame should be 47 x 20mm and section for fixed glass bead should be of 12 x 12mm. Fixing details: The frame and shutter frame sections should be cut to length and mitre joined with polypropylene corner bracket. Mullion section should be joined with frame mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Accessories: Each glazed shutter should be provided with SS pivot hinges 1 set, Polypropylene handle 1 No. with receiver and aluminium peg stay powder coated 1 No.. Glass: Glass shutter and fixing glass portion should be provided with a glass of 4mm Pinhead Glass. Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be power coated and fixed to window frame with screws. Window Frame should be fixed to brick masonry / concrete masonry by using Nylon self-expanding caps and driving MS electrolated 80mm long screws into the caps through frames.</p>	sqm	5151.00

Sl. No.	Name of Material	Unit	Rate 2022-23
245	<p>Pre-Painted Galvanized Iron Windows with Glass, Grill & Fly Mesh: Providing and fixing Windows from roll formed sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/ sqm.) with total coated thickness of 0.58mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Section for frame should be of 72mm x 55mm, section for mullion should be of 72mm x 50mm, section for shutter frame should be of 47mm x 20mm, section of fixed glass bead should be of 12mm x 12mm and section for fly mesh shutter frame should be of 40mm x 20mm.</p> <p>Fixing details: Section for frame, glazed shutters and mesh shutters should be cut to length and mitre joined with polypropylene corner brackets, mullion section should be joined with frame / mullion using mullion cap.. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter and fixed glass. Spoon profile should be used around Fly mesh to fix mesh in mesh shutter.</p> <p>Accessories: Each glazed shutter and mesh shutter should be provided with SS pivot hinges 1 set, Polypropylene handle 1 No. with receiver and aluminium powder coated peg stay 1 No. for glazed shutter alone.</p> <p>Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass. Mesh: Mesh shutter should be provided with a SS 32 gauge fly mesh of 304 grades with 144 holes per square inch.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 5mm x 12mm flat at 4" intervals.</p> <p>Total grill unit should be powder coated and fixed to window frame with screws. Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm	6790.00

Sl. No.	Name of Material	Unit	Rate 2022-23
246	<p>Pre-Painted Galvanized Iron Two Track Sliding Window: Providing and fixing pre-painted two track, two panel sliding system fabricated from roll formed sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/ sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Section for frame two track should be of 59mm x 44mm, section for shutter should be of 35mm x 49mm for window, section for euro groove should be of 25mm x 24mm and for lap strip should be 30mm x 41mm. Fixing details: The frame and shutter sections should be cut to length, joined with corner brackets made of glass filled nylon. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass.</p> <p>Accessories: Corner brackets made of glass filled nylon gasket made of Ethyl Propylene Diamine Monomer (EPDM). Locking system should be of single pin locking for Windows. Single wheel rollers for windows should be provided. Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass. Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm	4940.00

Sl. No.	Name of Material	Unit	Rate 2022-23
247	<p>Pre-Painted Galvanized Iron Three Track Sliding Windows: Providing and fixing pre-painted three track, three panel sliding system fabricated from roll formed sections made of galvanized steel colour coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/ sqm.) with total coated thickness of 0.58mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Section for outer frame three track should be of 92mm x 44mm, section for shutter should be of 35mm x 49mm for window, section for euro groove should be of 25mm x 24mm and for lap strip should be 30mm x 41mm. Fixing details: The frame and shutter sections should be cut to length, joined with corner brackets made of glass filled nylon. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass.</p> <p>Accessories: Corner brackets made of glass filled nylon. Gasket made of Ethyl Propylene Diamine Monomer (EPDM). Locking system should be of single pin locking for windows. Single wheel rollers for windows should be provided. Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass. Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm	5460.00

Sl. No.	Name of Material	Unit	Rate 2022-23
248	<p>Pre-Painted Galvanized Iron Fixed Louvered Ventilators with Glass and Grill: Providing and fixing louvered ventilator fabricated from roll formed sections made of galvanized steel colour coated/powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/sqm.) with total coated thickness of 0.58mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: The section for external frame should be of 57mm x 33mm. Fixing details: The section should be cut to length, joined with profile to profile component.</p> <p>Accessories: Glass holding flanges made of glass filled nylon.</p> <p>Glass: Louvers should be provided with 4mm pinhead glass.</p> <p>Grill: Ventilator should be provided with grill made of 10mm Square MS bars to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to ventilator frame with screws. The above frames should be fixed to brick / concrete masonry walls and floor by means of self-expanding screws.</p>	sqm	4940.00
249	<p>Pre-Painted Galvanized Iron Door Frame: Providing and fixing door frames from sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 217 with zinc of 120 grams/sqm.). The factory made section should be with a powder coating of pure polyester powder of 50-60 microns thick with total coated thickness of 1.25mm. Size of door frame section should be of 105 x 60mm with a rebate of 37mm to accommodate 35mm thick door shutter. The frame section should have groove to insert gasket. 2 tie rods of 10mm tor steel to be provided at bottom. Provision for aldrop, mortise lock to be made in the section as per the instruction of Engineer-in-Charge. The frame section should be cut to length, and joined by way of welding. Note: 1.25mm thick (Total coated thickness tolerance as per IS 513)</p>	RM	595.00

Sl. No.	Name of Material	Unit	Rate 2022-23
250	<p>Pre-Painted Galvanized Iron windows (Air Tight Model) with Acrylic Sheet & Grill: Providing and fixing Ajanta Cave Model window fabricated from roll formed sections made of galvanized steel colour coated/powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams/sqm.) with total coated thickness of 0.6mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Sections for shutter should be of 46 x 46mm and external frame should be of 46 x 52mm. Section for glass beading should be of 18 x 25mm and centre mullion should be of 46 x 70mm. Fixing details: The frame and shutter sections should be cut to length and mitre joined with corner bracket made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter, between frame and glazed shutter and both sides of fixed glass. Accessories: Handle made of high grade Aluminium Powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon. Glass: Glass shutter and fixing glass portions should be provided with a glass of 6mm acrylic sheet. Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to window frame with rivet. The above frame should be fixed to brick/ concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm	5870.00

Sl. No.	Name of Material	Unit	Rate 2022-23
251	<p>Structural Glazing:</p> <p>Providing and fixing structural glazing fabricated from roll formed sections made of galvanized steel colour coated (Base steel as per IS 513 of 'D' quality, galvanized as per IS 277 with Zinc of 120 grams/sqm.) with total coated thickness of 0.72mm. The glass holding section made of 304 grade SS of 0.6mm thick. Galvanized steel sections are to be used as stiffeners inside the colour coated steel / powder coated sections as per the design requirement. Design calculations are made to suit wind pressures as given in IS 875.</p> <p>Paint specifications: Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns or powder coated with pure polyester powder upto 50-60 microns thick.</p> <p>Dimensions: The section should be of 37 x 53mm for frame vertical, 37 x 53mm for frame horizontal section and section for reinforcement should be of 31 x 55mm. glass holding section should be of 37 x 37mm for top and bottom grids in between should be of 37 x 18mm.</p> <p>Accessories: Brackets made of CRCA powder coated / electro plated should be used to fix vertical at top and bottom and vertical to slab as per site requirement. Polyurethane brackets should be used to connect horizontal section to vertical sections. Silicone: Natural cure, with good UV resistance to be used.</p> <p>The above frame should be fixed to brick / concrete masonry by using nylon self-expanding cap and driving MS electro plated 80mm long screws into the caps through frames.</p> <p>Glass: 5mm reflective Saint Gobain OR equivalent.</p>	sqm	5870.00

Sl. No.	Name of Material	Unit	Rate 2022-23
252	<p>Pre-painted Galvanized Iron Fixed Louvered Ventilators with Glass, Mesh and Grill:</p> <p>Providing and fixing louvered ventilator fabricated from roll formed sections made of galvanized steel colour coated/powder coated (Base Steel as per IS 513 of 'D' quality, Galvanized as per IS 277 with Zinc of 120 grams/ sqm.) with total coated thickness of 0.58 mm Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and black coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of section: The section for external frame should be of 57 x 33mm.</p> <p>Fixing details: The section should be cut to length and joined with profile to profile component.</p> <p>Accessories: Glass holding flanges made of glass filled nylon.</p> <p>Glass: Louvers should be provided with 4 mm thick pinhead glass.</p> <p>Mesh: Mesh should be provided with a SS 32 gauge fly mesh of 304 grades with 144 holes per square Inch.</p> <p>Grill: Ventilator should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to window frame with screws.</p> <p>The above frames should be fixed to concrete / masonry walls and floor by means of self expanding screws.</p>	sqm	5250.00

Sl. No.	Name of Material	Unit	Rate 2022-23
253	<p>Providing UPVC (Un-Plasticized Polyvinyl Chloride) Door:</p> <p>Providing and fixing casement doors fabricated from un-plasticized polyvinyl chloride (uPVC) sections. Profiles: The profiles should be three chamber system which provides high insulation properties with outer frame 60mm x 55mm with an outer wall thickness of 2.4mm. The window unit should be designed with all corner joints mitred and fusion welded. Windows should be steel reinforced with 25 x 24 x 25mm steel reinforcement with a thickness of 1mm to have dimensional stability. The sash should be of 60 x 102mm. The mullion should be of 60 x 74mm. The profiles should have co-extruded seals. Hardware: All the hardware like friction stays, handles should be screwed with self tapping screws. The handles, locks should be designed so that they cannot be released from outside.</p> <p>Glazing: The window system should be glazed with 5mm plain float glass / 6mm bison lam Installation: The profiles should be cut to length and welded 45 degrees. The window should be designed such that the water drainage does not pass through the reinforcement chamber. The window system should be fixed directly to the plastered brick wall using self expanding nylon plug and driving ms electroplated screws into plug.</p>	sqm	8313.00

Sl. No.	Name of Material	Unit	Rate 2022-23
254	<p>Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with G1/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work</p>	sqm	7482.00
255	<p>UPVC Ventilator Specification:</p> <p>Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work</p>	sqm	8106.00

Sl. No.	Name of Material	Unit	Rate 2022-23
256	<p>FOAMED PVC DOOR FRAME</p> <p>Specification:</p> <p>Providing factory made pre-laminated FPVC (Formed Polyvinyl Chloride) Door Frame of the size 105 x 40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 5mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 Nos. to be provided for each vertical member, GI stiffeners of ('U' channel of size 29 x 9, 1mm, 150mm long) 3 Nos. at hinge point, frame reinforcement of ('U' GI channel of size 46 x 22 x 0.6mm), bottom tie rod of ('U' GI channel size of 15 x 15 x 1mm), etc., complete complying with the standard specification. The door frame should be got approved from the Executive Engineer before use on work</p>	RM	530.00
257	<p>ABS DOOR/EQUIVALENT</p> <p>Specification: Providing of 35mm thick factory made pre-laminated ABS (Acrolynitrile Butadiene Styrene) Door Shutter moulded in different designs, consisting of all round frame made out of water proof solid foam PVC bar of size 20 x 32mm, reinforced by 32 x 32mm 2 Nos., for vertical made out of LVL (Laminated Veneer Lumber), core material of 32mm thick high density craft paper honey comb board, sandwiched on both sides with pre-laminated ABS sheet thickness of 1.5mm. PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos., for each shutter and ISI make SS round lock complete for finished item of work, complete complying with the standard specification. The door shutter and frame should be got approved from the Executive Engineer before use on work</p>		
a	Plain Pre laminated door	sqm	5946.00
b	Design Pre laminated door	sqm	6273.00
258	Autoclaved cellular Aerated Concrete Blocks		
a	600mmx200mmx100mm	Each	45.80
b	600mmx200mmx150mm	Each	68.65
c	600mmx200mmx200mm	Each	91.60
d	600mmx200mmx225mm	Each	103.50

Sl. No.	Name of Material	Unit	Rate 2022-23
e	Self Curing AAC Joint bMortar	40 Kg/ Bag	612.00
f	Ready Mix Plaasticer for Plasticizer	50 Kg/ Bag	303.00
259	Plasticizer/ Super Plasticizer	Kg	43.20
260	Making through holes in plain or reinforced cement concrete with diamond core drilling system by using BOSCH power tools of following diameter - Depth per cm		
a	100mm	Each	324.00
b	150mm	Each	432.00
c	200mm	Each	484.00
261	Supplying and Installing Metal False Ceiling using Fire Retardant Galvanized Steel Sheet Plain lay in tile size 600mm x 600mm, 0.5mm thick, powder coated on external surface and shall have flange on all four sides to rest on the exposed grids. The system to give 600mm x 600mm centre to centre 'T'. The 'T' shall be not be dipped GI Tee Section 3600mm long main Tee. 24mm wide and cross Tee panels are formed by running main runner of 'T' section of size 30mm x 24mm powder coated at bottom at intervals with powder coating at bottom. Necessary provision of inter locking of 'T' section are made at required intervals not exceeding 1200mm. The main runners are suspended from the ceiling by means of 4mm dia. GI rods fixed to the ceiling using anchor fasteners of 50mm x 8mm size with nylon inset and hooked to the main rubbers using clips. The last hangers at end of each rubber should not be greater than 600mm from the adjacent wall. The last panel shall be placed at the side wall using edge profile 'L' Angle of size 20mm x 20mm and fixed to the side wall the false ceiling should be fixed of same level and should present a neat look	sqm	3151.00
262	Supplying and fixing of SS Wall Cladding	sqm	12875.00
263	Supplying and fixing of SS False Ceiling	sqm	7726.00
265	Supplying and Fixing of Aluminium Dye Cast Letters of approved size and colour. The colour treatment process is achieved with MRF colour coat and then the processed coloured layer is set into the kiln for the heat treatment process for the following sizes		

Sl. No.	Name of Material	Unit	Rate 2022-23
a	Aluminium Dye Cast Letters 9" size	Each	1179.00
b	Aluminium Dye Cast Letters 6" size	Each	748.00
266	English Brass Letters		
a	25cm (10")	Each	918.00
b	37cm (15")	Each	1296.00
267	Tamil Brass Letters		
a	25cm	Each	1682.00
b	20cm	Each	1274.00
c	15cm	Each	2040.00
268	English Stainless steel letters		
a	60cm (24")	Each	3434.00
b	25cm (10")	Each	1464.00
269	Tami Stainless steel letters		
a	60cm (24")	Each	3656.00
b	25cm (10")	Each	1818.00
270	Emblem (15")	Each	12975.00
271	Providing Wall Panelling using one side teak wood sheet with melamine polishing with following specification. The frame using aluminium tubular section of size 50mm x 25mm x 2mm thick fixing horizontally and vertically in position with wall at interval of 0.60m in both directions, fixing water proof plywood of 12mm thick over the aluminium frame work with necessary screws. One side teak wood sheet of 3.5mm thick will be fixed over the plywood using fevical and finishing with melamine polishing and the rate inclusive of conveyance to site and labour charges and as directed by the Departmental Officers. The design pattern, water proof plywood, OST sheet and other materials to be used shall be got approved by the Executive Engineer concerned before use on work etc., complete.	sqm	6070.00

Sl. No.	Name of Material	Unit	Rate 2022-23
272	<p>Providing and fixing Acoustic Wall Panelling (equivalent to Armstrong) in channelled wood works perforated panels of width 192mm, thickness of 15mm and length of 2400mm or as per required by the Departmental Engineer made of a high density fibre board with minimum 725 kg./m3 density substrate with a laminated facing as per the approved shade and finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the visible surface has a "Helmholtz" fluted perforation of 3mm width and 21mm of visible panel each. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. The back of the perforated panel shall have sound absorbing non woven acoustical fleese having NRC of 0.52. The panels shall be mounted on special aluminium splines using clips provided by Armstrong and approved by the Engineer-In-Charge.</p> <p>Installation: Install aluminium box section (provided by others) of section 50mm x 25mm or as approved by the Engineer-In-Charge on the solid wall horizontally using screws and plugs at spacing of 600mm centre to centre. Screw the aluminium extruded keel for channelled wood works provided by Armstrong over the lowest and second aluminium section at an on centre distance of 600mm. Place the inside clip on the groove end of the panel along the aluminium keel and then place the tongue end of the next panel. Continue installing rows of panels by inserting the tongue into groove of the earlier inserted panel and progressively installing inside clips into the next keel till the actual height is achieved. Finish off the edges using wooden moulding of matching colour (provided by others). Installation to be carried out by Armstrong Trained Installation Team and installation should be carried out as per Armstrong Recommended Procedure,</p>	sqm	8615.00

Sl. No.	Name of Material	Unit	Rate 2022-23
273	<p>Supplying and fixing the Wall Panelling with the following specification fixing horizontally and vertically in position of wall. Fixing the water proof ply wood 9mm thick board over the country wood planks. Over the ply wood OST sheet of 4mm thick will be fixed with necessary screws and fevicol giving neat finish. The top will be finished with two coats of sanding polishing. The surface will be finished with necessary design as directed by the Departmental Officers. The rate Inclusive of all materials, labour power and conveyance of materials to the work site, loading & unloading etc., and as per drawing and design by the Departmental Officers. The water proof ply wood and OST sheet and other materials to be used shall be got approved by the Executive Engineer concerned before use on work, etc., complete as per standard specification.</p>	sqm	5406.00
274	<p>Supplying and installation of Anutone / Topakustiks / Idea Tec/ Wood Fit / Equivalent Brand of Acoustic Wooden Wall Panelling with fire retardant grade pine wood fibre slats of size 2430 x 128 x 16mm with lineal perforation of 2mm back lined with soundtex black acoustical fleece 0.27mm thick, 63 g/ m2, tongue-groove edge for a seamless look, 5 test fire retardant grade with noise reduction coefficient not less than 0.75 NRC to absorb low and mid range frequencies from 125Hz to 4000Hz. GI strut CC50 frame work not more than 60 cm centre to centre using GI channels are fixed on the wall, over which an acoustic filling polywool material sound synth of 500 gsm density of 50mm thick has fixed and finally the panels are fixed and finished, so as to have an neat appearance as directed by the departmental offices. The cost includes cost of material, cost of Labours, scaffolding, transportation, conveyance, etc., complete complying to standard specification.</p>	sqm	5508.00

Sl. No.	Name of Material	Unit	Rate 2022-23
275	<p>Supplying and installation of Anutone/Woodfit / Saint Goblan/Equivalent Brand of Acoustic Fabric Wall Panelling of stretch fabric NRC wall fabric system by using FR Grade NRC fabric of size 1400mm width shall be stretched by using CC 25 with infill of synth pf polywool 10 x 25 mm thick, rigid vinyl stretch tracks half wrap / full wrap 15mm (FS15) and midseam 15mm (FS15), strand board, synth PF Infill with requisite accessories & tools. CC 50mm is first installed on the wall along with the marking lines with metal fasteners Inserted at 300mm centers. FS15 tracks to be installed on wooden base, after applying stick 57 adhesive on both surfaces for a true and continuous secure grip, and heavy duty fasteners at 150mm centers on one / both sides of stretch tracks. Strand square edge magnesite bonded pinewood fiber panels of size 600 x 2400 x 20mm having density 400 kg / m3, weight 4 kg which is fixed to wall with suitable fasteners. Sound synth PF polywool 10 x 25mm thick adhered on strand panel by using Stick 7 adhesive. Fabric of width 1400mm is then aligned to the stretch tracks by following the fabric thread line or pattern. The fabric is stretched and tucked into the stretch tracks and secure into the locking jaws so that it will be smooth, free of wrinkles with the tucking tools. The systems to achieve noise reduction coefficient not less than 0.85 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard specication.</p>	sqm	5304.00

Sl. No.	Name of Material	Unit	Rate 2022-23
276	<p>Supply and installation of Anutone / Tectum / Heradesign/ Equivalent Brand of Acoustical Slim Wall Panelling of synth slim, polyfibre panels, core-pigmented, high-density, Synth PF rigid panels of size 1200 x 2400 x 9mm thick, volume density 210-230 kg / m³, weight 1.9-2.1 kg/m² installed by using GI strut frame work system. The GI strut frame work systems includes GI strut CC 50 cross channel having thickness 0.7mm, length 3600mm, knurled web 50, depth 25mm and equal flanges 15mm is fastened to wall positioned horizontally in a regular manner at 600mm centre to centre. Anutone (or) Equivalent Brand of strand, square edge, magnesite bonded pine wood fibre core tiles of size 600 x 2400 x 10mm, density 400 kgs/ m³, weight 8 kg /m² are fastened to strut CC 50 cross channel with suitable fasteners. Longer edges of the panel should be perpendicular to strut CC 50 cross channel. Synth slim panels are then adhered to strand behind with stick 57 adhesive. The system is backlined with the acoustical Infill SynthPF 500 gsm 50 thick. The systems to achieve noise reduction coefficient not less than 0.85 NRC, so as to have an neat appearance as directed by the department offices. The cost Includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard specication.</p>	sqm	4998.00

Sl. No.	Name of Material	Unit	Rate 2022-23
277	<p>Supply and installation of Anutone / Hera Design/Tectum / Equivalent Brand of Acoustical Fibre Based Wall Panelling of strand colour, kerfed edge magnesite bonded pine wood fibre core tiles of size 600 x 2400 x 20mm, density 400 kgs/ m3, weight 8 kg/m2 installed by using GI strut frame work system with non-visible fasteners usin PVC strut H-Spline. The GI strut frame work systems includes GI strut CC 50 cross channel having thickness 0.7mm, length 3600mm, knurled web 50, depth 50mm and equal flanges 15mm is fastened to wall positioned horizontally in a regular manner at 600mm centre to centre. PVC strut H-Spline having sectional thickness 2mm and length 2400mm to be fixed perpendicular to the Strut CC50 cross channel at 600mm centers. The kerfed edge panels shall be then inserted into the strut H-Spline along their long edges of 2400mm against frame work to perfect fit with staggered short edges. The system is backlined with the acoustical infill Anutone or Equivalent Brand of SynthPF 500 gsm 50mm thick. The systems to achieve noise reduction coefficient not less than 0.9 NRC, so as to have an neat appearance as directed by the department officers. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard spec.</p>	sqm	3366.00
278	<p>Providing and fixing of 1.2mm thick Lead Lining Door for X-Ray Rooms, Scanning Rooms with Mild Steel Door Frames 105mm x 57mm X 18 G and 12 G x 50mm Shutter made of GI with PWG finish and honey wool insulations with SS 101mm x 75mm x 3mm SS 304 Ball Bearings Butt Hinges, Mortice Sash Lock ML 100A, 50mm BS, 85mm centre, CL 207: Key & Knob 70mm, 5 Pin Cylinder with Handle SS Finish (Dorma Make), Heavy Duty Door Closer, Frames fixed wih walls using Mortice Sash Lock ML 100A, 50mm BS, 85mm centre CL207: Key & Knob 70mm, 5 Pin Cylinder with Handle SS Finish (Dorma Make) all neccessary accessories and fittings as per the required and as per the approval for the Department Officer</p>	sqm	14059.00

Sl. No.	Name of Material	Unit	Rate 2022-23
279	<p>Post Tensioning Work:</p> <p>Design and execution of post tensioning work, including decolling, the strands, cutting to the required lengths, supplying, laying of HT strands sheathing (GI corrugated ducts 0.3mm thick) jointing with couplers and inserting the strands, profiling, fixing liveend anchorages, including supply of stressing anchorages, suitable for 5-5 & 5-4 tendons, grout vents, making dead end anchorages, including flowering the strands, fixing tendon support bars, supervising the fixing of antibursting reinforcement, stressing the cables, end trimming, grouting the cables, with cement slurry, mixed with admixtures with required tools, plants, and machineries, and consumables etc. (Shuttering, concreting & reinforcement steel shall be paid under respective Items) at all heights including all leads, lifts, coordination, with the post- tensioning agency, preparation of drawings, obtaining approval from the Employer / Architect etc. Rate to include providing water, power, cement and admixture for grouting, packing of sheathing and anchorages blockings, filling of recess pockets after stressing using grouts (cement slurry mixed with approved admixtures) Including providing access to post tensioning at all heights including all leads, lifts etc., all complete and as approved and as directed by the Employer Architect but excluding shuttering, concreting & reinforcement steel which shall be payable under respective items separately.</p>	MT	199775.00

Sl. No.	Name of Material	Unit	Rate 2022-23
280	Supplying, fabricating and fixing in position factory made Stainless Steel Flush Door Shutter 35mm thick using SS 304 Grade 1.6 mm thick, Stainless Sheets on both sides (Equivalent to 1S 6911-04 Cr. 19, NI 9) minimum 8-8.5% nickel and 18% chromium sourced from original stainless steel manufacturer with view panel size 30mm x 45mm made up of 6mm thick clear toughened glass fitted with double side adhesive tape and finished with dowconing silicon sealant, floor spring for each shutter, consealed tower bolt, suitable stainless steel locking arrangement and other necessary furniture fittings of approved quality. The vertical styles and other frame members and cross stiffeners shall be of same quality stainless steel box section of suitable size and thickness with proper core material as prescribed by the Departmental Officers	sqm	37743.00
281	Manhole cover SFRC		
a	600mm x 600mm	Each	2701.00
b	750mm x 750mm	Each	2971.00
c	900mm x 900mm	Each	3244.00
282	Incinerators for Ladies bathroom (for school works)	Each	34570.00
283	Polycarbonate sheet 6mm thick	sqm	648.00
284	Galvalume colour shet of size 0.47mm	sqm	434.00

Sl. No.	Name of Material	Unit	Rate 2022-23
285	<p>Supplying and erecting in position of following liters capacity Industrial Model Reverse Osmosis Water-cum-Purifier to deliver Potable Water with World Health Organisation (WHO) Standards with following accessories.</p> <p>(a) MS Skid- 1 No. (b) Media 11054 No. Vessel with 20 nb Multiport Valve (with Media Pubble and Fine Sand and Activated Carbon Filling) set (c) Feed Pump 0.50 HP 1 No. (d) Vertical Pump 2-9, 2.00 HP/Single Phase 1 No. (e) Membrane 40 x 40 filmtech (or) equilaents / Osmonic (USA)- 1 No. and Membrane Pressure Vessel 40 x 40 -1 No. & Pressure Gauge - 2 Nos. (f) Flow Meter - 1 No. 20" Filter with Housing - 1 No., Low Pressure Switch- 1 No., Level Switch - 1 No. & Necessary CPVC Pipes and Fittings.</p> <p>The system shall be provide with Two Panel Control System with necessary Stainless Valves and Fittings and Float Control etc. The rate should be inclusive of all civil works, wherever necessary to install the System in position and intact.</p>		
a	50 Litres	Set	40320.00
b	250 Litres	Set	108000.00
c	500 Litres	Set	226200.00
d	1000 Litres	Set	376700.00
e	2000 Litres	Set	519000.00

III (G) RATES FOR ELECTRICAL ITEMS

ELECTRICAL ITEMS OF WORKS			
ELECTRICAL LAMPS, FITTINGS AND CONNECTED ACCESSORIES			
Note:-	No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work.		
Item No.	Description	Unit	Rates for the year 2022-23
	PART-A		
1	INCANDESCENT BULBS 230V/ 250V GRADE BC/ES WITH ISI		
a.	15 Watts	Each	9.45
b.	25 Watts	Each	9.45
c.	40 Watts	Each	9.45
d.	60 Watts	Each	9.45
e.	100 Watts	Each	9.45
f.	200 Watts	Each	19.05
2	INCANDESCENT BULB 230V/250V GRADE BC/ ES		
a.	Colour 15 Watts	Each	11.70
b.	Blended lamp 160 Watts	Each	232.60
3	PL LAMP		
a.	9 Watts	Each	72.40
b.	11 Watts	Each	77.00
c.	18 Watts	Each	121.50
d.	36 Watts	Each	135.20
4	FLUORESCENT TUBULAR LAMPS WITH ISI MARK		
a.	Cool Day light 2 Ft. 20 Watts	Each	36.20
b.	Cool Day light 4 Ft. 40 Watts	Each	36.20
c.	Cool Day light 4 Ft. 36 Watts	Each	35.40
5	4' 18W crystal Glass LED Tube Light fitting	Each	391.00
6	MERCURY VAPOUR DISCHARGE LAMP 230V GRADE 3 PIN BC		
a.	80 Watts	Each	167.00
b.	125 Watts	Each	175.40
c.	250 Watts	Each	428.00
d.	400 Watts	Each	602.00
7	BOX TYPE SINGLE FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE WITH ISI MARK		
a.	4 Ft. 40 Watts with ballast (Lower end)	Each	309.00

Item No.	Description	Unit	Rates for the year 2022-23
b.	4 Ft. 40 Watts Box type with (Highwer end) Ballast	Each	454.00
8	BOX TYPE TWIN FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR[HPF] COMPLETE WITH ISI MARK		
a.	4 Ft. 40 Watts with Ballast (Lower end)	Each	579.00
b.	4 Ft. 40 Watts Box type With Ballast (Higher end)	Each	758.00
9	INDUSTRIAL TYPE FLUORESCENT FITTING STOVE ENAMELLED WITH COPPER CHOKE AND CONDENSOR (HPF) 4 Ft. 40W		
a.	Single type suitable for 1 No. tube	Each	855.00
b.	Twin type suitable for 2 Nos. tube	Each	1050.00
10	DECORATIVE TWIN FLUORESCENT TYPE FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE SUITABLE FOR 2 NUMBERS FLUORESCENT TUBES		
a.	4 Ft. 40W Twin Mirror optic Recessed mounting type fitting (Lower end)	Each	1474.00
b.	4 Ft. 40W Twin Mirror optic Suspension type fitting.	Each	2658.00
c.	4 Ft. 40W Twin Mirror Optic Recessed mounting type fitting (Higher end)	Each	1949.00
11	SINGLE TYPE STREET LIGHT FLUORESCENT FITTING SUITABLE FOR ONE NO. FLUORESCENT TUBE WITH COPPER CHOKE AND CONDENSOR COMPLETE		
a.	4 Ft. 40 Watts type	Each	648.00
12	TWIN TYPE STREET LIGHTS FLUORESCENT FITTING SUITABLE FOR 2 Nos. FLUORESCENT TUBES WITH COPPER CHOKE AND CONDENSOR COMPLETE		
a.	4 Ft. 40 Watts type	Each	872.00
13	POST TOP LANTERN FITTING OF INTEGRAL TYPE WITH COPPER CHOKE AND CONDENSOR & NECESSARY ACCESSORIES (SPHERICAL / RIBBED / CONICAL ACRYLIC COVER)		
a.	Suitable for 125 Watts M.V lamp	Each	3141.00
b.	Suitable for 70 Watts S.V. Lamp	Each	3310.00

Item No.	Description	Unit	Rates for the year 2022-23
c.	Post top lantern fitting with S.C. holder suitable for 160 W blended lamp/ incandescent lamp	Each	1807.00
14	CFL STREET LIGHT FITTINGS (COMPACT FLOURESCENT LAMP)	Higher End Each	Lower End Each
a	T5 Street Light (IP65) EB / 4 x 14W T5	3742.00	2993.00
b	T5 Street Light (IP65) EB / 4 x 24W T5	4135.00	3307.00
c	1 x 9W CFL Street Light	861.00	687.00
d	1 x 11W CFL Street Light	861.00	687.00
e	1 x 13W CFL Street Light	866.00	687.00
f	1 x 18W CFL Street Light	866.00	690.00
g	2 x 9W CFL Street Light	825.00	659.00
h	2 x 11W CFL Street Light	1007.00	806.00
i	2 x 13W CFL Street Light	1007.00	806.00
j	2 x 18W CFL Street Light	1007.00	806.00
k	1 x 36 CFL Street Light	1030.00	824.00
l	45-1 x 45W 4U Retro CFL B22 Street Light	961.00	770.00
m	CFL - 1 x 85W CFL E27 Street Light	1560.00	1252.00
n	CFL 1 x 85W CFL B22 Street Light	1560.00	1252.00
o	36WFP-LHF(MS) Street Light	1626.00	1299.00
p	36WFP-LHF(AL) Street Light	1807.00	1442.00
q	T5 1 x 24W FTL T5 Street Light	1686.00	1348.00
r	T5 2 x 14W FTL T5 Street Light	1863.00	1494.00
s	T5 2 x 24W FTL T5 Street Light	1954.00	1564.00
t	FTL 1 x 36 / 40W FTL Street Light	1353.00	1082.00
u	FTL 2 x 36 / 40W FTL Street Light	1929.00	1543.00
15	4 Feet LED Fitting		
a	18W 4 Feet LED fitting with LED	761.00	648.00
b	20W 4 Feet LED fitting with LED	772.00	756.00
c	1 X 18 W / 22 W 4 Feet LED Fitting without LED Tube	Each	301.00
d	2 x 22 W 4 Feet LED Fitting without LED Tube	Each	351.00
e	20 W LED Tube Light for T 8 Fitting (single side)	Each	618.00
f	20 W LED Tube Light for T 8 Fitting (Double side)	Each	382.00
g	18 W LED Tube Light for T 8 Fitting (single side)	Each	609.00

Item No.	Description	Unit	Rates for the year 2022-23
h	18 W LED Tube Light for T 8 Fitting (Double side)	Each	374.00
i	7 W / 9 W LED Bulb	Each	135.00
j	15 W LED Bulb	Each	270.00
16	LED INDOOR FITTINGS (LIGHT EMITTING DIODE)	Higher End Each	Lower End Each
a	24W LED 4000K 2 x 2 Square Type Recessed Fitting with LED	3543.00	2511.00
b	18W LED 3000K Square Type Recessed Fitting with LED	1384.00	913.00
c	18W LED 3000K Round Type Recessed Fitting with LED	1258.00	992.00
17	LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE)	Higher End Each	
a	30W LED Street Light Fitting with LED	Each	2527.00
b	48W LED Street Light Fitting with LED	Each	4992.00
c	80W LED Focus Light Fitting with LED	Each	11890.00
d	120W LED Street Light Fitting with LED	Each	14050.00
e	150W LED Street Light Fitting with LED	Each	17520.00
18	LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE)	Lower End Each	
a	25W LED Street Light Fitting with LED	Each	1193.00
b	30W LED Street Light Fitting with LED	Each	1856.00
c	60W LED Street Light Fitting with LED	Each	3669.00
d	120W LED Street Light Fitting with LED	Each	11890.00
e	150W LED Street Light Fitting with LED	Each	14050.00
19	LED FLOOD LIGHT		Higher End
a	LED Flood Light 100 W with Integrated Driver	Each	9468.00
b	LED Flood Light 120 W with Integrated Driver	Each	10365.00

Item No.	Description	Unit	Rates for the year 2022-23
c	LED Flood Light 150 W with Integrated Driver	Each	13060.00
20	TIMER SWITCHES		
a	24 Hours Analog Timer Switch with Shortest Switching Time 30 Minutes	Each	2304.00
b	24 Hours Programmable Timer Switch with Shortest Switching Time 15 Minutes	Each	2448.00
c	Digital Weekly Programmable Timer Switch with Shortest Switching Time 1 Minute	Each	2294.00
d	Astronomical Weekly Programmable Timer Switch	Each	2641.00
e	Staircase Light Timer Switch Adjustable Range 5 to 20 Minutes	Each	1213.00
21	63A 3 phase 4 pole Contactor	Each	5381.00
22	STARTERS FOR FLUORESCENT TUBES		
a.	Starters of capacity 20 Watts	Each	9.45
b.	Starters of capacity 40 Watts / 36 Watts	Each	9.45
23	POLYSTER FILLED COPPER CHOKE 250V/ 50 HZ GRADE SUITABLE FOR		
a.	20 Watts fluorescent Tube	Each	206.50
b.	40 Watts fluorescent Tube	Each	206.50
c.	36/40W Electronic ballast for fluorescent Tube (Higher end)	Each	342.40
d.	36/40W Electronic ballast for fluorescent Tube (lower end)	Each	279.20
24	CONDENSOR FOR S.V/ M.V LAMP		
a.	8 Mfd for 80 Watts Bulb	Each	104.40
b.	10 Mfd for 125 watts Bulb	Each	125.00
c.	15 Mfd for 250 Watts Bulb	Each	166.50
d.	20 Mfd for 400 watts Bulb	Each	230.30
25	Battern type Bakelite holder for lamp	Each	16.65
26	Water tight bulk head fitting suitable for 100/60 watts lamp with guard heavy type	Each	277.60
27	Ceiling Rose	Each	13.80
28	Ceiling fixtures 250/300mm complete with Gallery etc. Clear glass opac/ crystal suitable for 40/60 Watts Bulb	Each	164.00

Item No.	Description	Unit	Rates for the year 2022-23
29	Ceiling luminaire with mirror optics suitable for 2 Nos. 9 Watts/11 Watts	Each	1039.00
	(FOR ITEMS 7 TO 14 ,27 & 28 , THE RATES ARE EXCLUSIVE OF COST OF TUBES AND LAMPS)		
30	Fan clamp (dia 12mm) with 6mm MS side plates & 45 cm cross arm	Each	110.90
31	CALL BELLS		
a.	Call bell/ Buzzar 6mm suitable for AC/DC	Each	41.70
b.	Push bell	Each	16.65
c.	Gong bell 9" size suitable for 250 V	Each	417.00
d.	Gong bell 12" size suitable for 250V	Each	602.00
32	WATER HEATER WITH ISI MARK		
a.	Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 25 Litres capacity 230V/1000W (Higher end)	Each	8256.00
b.	Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 25 Litres capacity 230V/1000W (Lower end)	Each	6112.00
c.	Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 35 litres capacity 230V/1000W (Higher end)	Each	9481.00
d.	Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 35 litres capacity 230V/1000W (Lower end)	Each	7081.00
II	PART 'B'		
1	FANS – CONFORMING TO ISS		
a.	AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod.(without regulator)	Each	1366.00
b.	AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod. (Without regulator)	Each	1465.00

Item No.	Description	Unit	Rates for the year 2022-23
c.	Stepped electronic 300W/450W square type fan regulator	Each	232.60
d.	Dimmer type electronic 300W/450W square type fan regulator	Each	185.90
e.	AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod.(without regulator) (Higher end)	Each	1549.00
f.	AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod (Without regulator) (Lower end)	Each	1671.00
2	EXHAUST FANS		
a.	AC Exhaust Fan 225 mm (9") sweep (Light duty)	Each	1265.00
b.	AC Exhaust Fan 300 mm (12") sweep (Light duty)	Each	1447.00
c.	AC Exhaust Fan 375 mm (15") sweep (Light duty)	Each	1492.00
d.	AC Exhaust Fan 450 mm (18") sweep (Light duty)	Each	2100.00
e.	AC Exhaust Fan 300 mm (12") sweep (Heavy duty)	Each	2160.00
f.	AC Exhaust Fan 375 mm (15") sweep (Heavy duty)	Each	2758.00
g.	AC Exhaust Fan 450 mm (18") sweep (Heavy duty)	Each	3430.00
3	LOUVER SHUTTERS ARRANGEMENTS		
a.	MS/Fibre Louvers shutters arrangements for 300mm AC Exhaust Fan	Each	222.90
b.	MS/Fibre Louvers shutters arrangements for 375mm AC Exhaust Fan	Each	236.20
c.	MS/Fibre Louvers shutters arrangements for 450mm AC Exhaust Fan	Each	264.30
4	CEILING FAN	Higher End Each	Lower End Each
a	48" Ceiling Fan 5 Star Rates (Without regulator)	1,746.00	1553.00
b	48" Ceiling Fan High Speed (Without regulator)	1,736.00	
c	56" Ceiling Fan High Speed (Without regulator)	2,498.00	
d	BEE Energy efficient 1200mm sweep ceiling fan 5 star rated, inverter driven controlled by microprocessor with 300mm down rod with regulator/ remote control (35W)	3,140.00	
5	WALL MOUNTING FAN		
a	300 mm Sweep	Each	2592.00
b	400 mm Sweep	Each	2721.00

Item No.	Description	Unit	Rates for the year 2022-23
c	450 mm Sweep	Each	4455.00
6	DIMMER AND REGULATOR	Higher End Each	Lower End Each
a	Fan Step Regulator 100W - 1 Module	341.00	245.00
b	Fan Step Regulator 100W - 2 Module	388.00	279.00
III.	PART "C"		
1	SWITCHES		
a.	5 Amps (Flush type)	Dozen	194.50
b.	5 Amps (Flush type staircase)	Dozen	241.30
2	DOUBLE POLE SWITCHES		
a.	16 Amps DP Switch with metal clad (front handle)	Each	417.00
b.	32 Amps DP Switch with metal clad (front handle)	Each	855.00
c.	16 Amps DP Switch with metal clad (side handle)	Each	344.00
d.	32Amps DP Switch with metal clad (side handle)	Each	775.00
3	TRIPLE POLE SWITCHES (SIDE HANDLE)		
a.	100 Amps TPN Switch with HRC fuses sheet steel double break	Each	5870.00
b.	125 Amps TPN Switch with HRC fuses sheet steel double break	Each	6436.00
c.	200 Amps TPN Switch with HRC fuses sheet steel double break	Each	8320.00
d.	315 Amps TPN Switch with HRC fuses sheet steel double break	Each	11800.00
e.	400 Amps TPN Switch with HRC fuses sheet steel double break	Each	15190.00
f.	16 Amps TPN Metal clad switch with rewirable fuse units	Each	889.00
g	32 Amps TPN Metal clad switch with rewirable fuse units	Each	1315.00
h	63 Amps TPN Metal clad switch with rewirable fuse units	Each	2866.00
I	100 Amps TPN Metal clad switch with rewirable fuse units	Each	5643.00
j	200 Amps TPN Metal clad switch with rewirable fuse units	Each	8568.00

Item No.	Description	Unit	Rates for the year 2022-23
4	SWITCH DISCONNECTOR FUSE UNITS IN SHEET STEEL ENCLOSURE (SDF)		
a	63 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	3625.00
b	100 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	6098.00
c	125 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break.	Each	7200.00
d	200 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	9044.00
e	250 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	11275.00
f.	315 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	13520.00
g	400 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	15510.00
5	SWITCH DISCONNECTOR FUSE UNITS IN OPEN EXECUTION (INTERIOR FOR CUBICAL)		
a	63A TPN Switch disconnecter fuse units interior only with HRC fuses Double break	Each	2395.00
b	100 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	4357.00
c	125 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	5943.00
d	200 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	7669.00
e	250 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	9990.00
f.	315 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	12560.00
g	400 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	14820.00
6	FUSE UNITS (ANCHOR /EQUIVALENT)		
a.	16 Amps Porcelain fuse unit (500 V)	Each	48.05
b.	32 Amps Porcelain fuse unit (500 V)	Each	85.20
c.	63 Amps Porcelain fuse unit (500 V)	Each	190.20
d.	100 Amps Porcelain fuse unit (500 V)	Each	343.70
e.	200 Amps Porcelain fuse unit (500 V)	Each	555.00
7	SINGLE PHASE DBS		
a.	4 Way DB 16 Amps /Way with fuse & Neutral Each (250V)	Each	462.00

Item No.	Description	Unit	Rates for the year 2022-23	
b.	6 Way DB 16 Amps /Way with fuse & Neutral Each (250V)	Each	631.00	
c.	8 Way DB 16 Amps /Way with fuse & Neutral Each (250V)	Each	780.00	
8	THREE PHASE DBS			
a.	4 Way TPDB 16A/Way with fuse & Neutral link	Each	1827.00	
b.	6 Way TPDB 16A/Way with fuse & Neutral link	Each	2502.00	
c.	8 Way TPDB 16A/Way with fuse & Neutral link	Each	3027.00	
d.	4 Way TPDB 32A/Way with fuse & Neutral link	Each	2311.00	
e.	6 Way TPDB 32A/Way with fuse & Neutral link	Each	3093.00	
f.	8 Way TPDB 32A/Way with fuse & Neutral link	Each	3912.00	
g.	4 Way TPDB 63A/Way with fuse & Neutral link	Each	5411.00	
h.	6 Way TPDB 63A/Way with fuse & Neutral link	Each	6960.00	
9	CHANGE OVER SWITCHES			
a.	16 Amps three phase 500 V 4 pole Change over switch	Each	1258.00	
b.	32 Amps three phase 500 V 4 pole Change over switch	Each	1490.00	
c.	63 Amps three phase 500 V 4 pole Change over switch	Each	3257.00	
d.	100 Amps three phase 500 V 4 pole Change over switch	Each	5178.00	
e	125 A 4 pole Change Over Switch	Each	8938.00	
f	200 Amps three phase 500 V 4 pole Change over switch	Each	9743.00	
g	250A 3 phase 4 pole change over switch	Each	20610.00	
h	400A 3 phase 4 pole change over switch	Each	31500.00	
10	MODULAR SWITCHES	Higher End	Lower End	
A	Switches 6A - 230V	Each	Each	
a	6A Switch 1W - 1 Module	78.15	57.55	
b	6A Switch 2W - 1 Module	95.50	67.80	
c	6A Switch 1W - 1 Module with Indicator	105.00	74.90	
d	6A Switch 1W - 1 Module with 'Light' Marking	84.30	60.00	
e	6A Switch 1W - 1 Module with 'Fan' Marking	84.30	60.00	

Item No.	Description	Unit	Rates for the year 2022-23
B	Switches 16A - 230V		
a	16A Switch 1W - 1 Module	117.90	84.30
b	16A Switch 2W - 1 Module	145.60	105.00
c	16A Switch 1W with Indicator - 1 Module	138.60	99.80
C	Switches 20A - 230V		
a	20A 1W Switch - 1 Module	153.30	110.10
b	20A DP 1W Switch - 2 Module	255.90	182.80
c	20A DP 1W Switch with Indicator - 2 Module	269.60	194.50
D	Switches 25A - 230V		
a	25A SP 1W Switch with Indicator - 1 Module	166.80	120.30
E	Switches 32A - 230V		
a	32A DP Switch with Indicator - 2 Module	325.20	235.80
B	PUSH BUTTONS		
a	6A Push Button SP - 1 Module	105.70	76.50
b	6A Push Button SP with Indicator - 1 Module	137.40	98.90
c	6A Bell Push - 1 Module	105.00	74.90
d	6A Bell push with Indicator - 1 Module	129.90	93.00
e	6A Bell Push - 2 Module	137.30	98.90
f	6A Bell Push with Indicator - 2 Module	161.60	116.20
12	MOTOR STARTER		
a	25A Motor Starter - 2 Module	301.70	217.20
13	FLUSH MOUNTING BOXES (GI)		
a	Flush Box - 1/2 Module	38.00	27.50
b	Flush Box - 3 Module	44.60	32.40
c	Flush Box - 4 Module	54.40	38.90
d	Flush Box - 6 Module	85.30	61.70
e	Flush Box - 8 Module	104.70	75.50
f	Flush Box - 8 Module (2 row x 4)	105.50	76.30
g	Flush Box - 12/16 (2 row x 6) Module Metal Box	141.40	101.60
h	Flush Box - 18 Module Metal Box	160.80	115.40
14	SURFACE MOUNTING BOXES (PLASTIC)		
a	Surface Box - 1/2 Module	43.00	30.60
b	Surface Box - 3 Module	45.45	33.00
c	Surface Box - 4 Module	58.60	42.10
d	Surface Box - 6 Module	76.10	55.40
e	Surface Box - 8 Module	92.80	67.00
f	Surface Box - 8 (2 row x 4) Module	107.60	77.70
g	Metal Surface Box - 12/16 (2 row x 6) Module	163.20	117.20

Item No.	Description	Unit	Rates for the year 2022-23
h	Metal Surface Box - 18 Module	208.00	149.10
15	COMBINED PLATES (PLASTIC)		
a	1 Module Cover Plate	63.70	46.20
b	2 Module Cover Plate	67.00	47.80
c	3 Module Cover Plate	81.10	57.70
d	4 Module Cover Plate	90.10	64.50
e	6 Module Cover Plate	126.70	91.00
f	8 Module Cover Plate	161.50	115.90
g	8 Module Cover Plate (H)	162.30	137.30
h	12 Module Cover Plate	202.20	145.90
i	18 Module Cover Plate	255.40	183.10
16	COMBINED PLATES (ALUMINIUM)		
a	1 Module Cover Plate	144.50	104.00
b	2 Module Cover Plate	151.90	106.10
c	3 Module Cover Plate	164.80	118.80
d	4 Module Cover Plate	186.00	133.40
e	6 Module Cover Plate	316.20	228.50
f	8 Module Cover Plate	349.20	252.60
g	8 Module Cover Plate (H)	444.00	319.60
h	12 Module Cover Plate	577.00	416.00
i	18 Module Cover Plate	760.80	547.50
17	SOCKET 230 V	Higher End Each	Lower End Each
a	16 A 3 Pin Switched Socket - 3 Module	387.60	279.90
b	6 A 5 Pin Universal Socket - 2 Module	120.30	87.40
c	6 / 16 A Socket - 3 Module	218.20	157.40
d	6 / 16 A Socket - 2 Module	185.30	132.80

Item No.	Description	Unit	Rates for the year 2022-23
IV	PART 'D'		
1	PLUG AND SOCKETS		
a	5 Amps 3 pin and 2 pin combined flush type wall socket only.	Each	24.10
b	5 Amps /15 Amps.3 pin flush type wall socket only.	Each	54.50
c	5 Amps 3 pin Top	Each	34.20
d	15 Amps 3 pin Top	Each	48.45
e	15 Amps Flush type switch	Each	56.55
f	10 Amps M.C plug with 3 pin Top	Each	180.70
g	20 Amps M.C plug with 3 pin Top	Each	206.00
e	25A Flush type Wall Socket with 25A DP MCB for AC Plug	Each	811.00
3	SINGLE PHASE WATT HOUR METERS		
a.	AC single phase 230V/250V/50 HZ 5 Amps Watt Hour Meter	Each	963.50
b.	AC single phase 230V/250V/50 HZ 10 Amps Watt Hour Meter	Each	963.50
c.	AC single phase 230V/250V/50 HZ 20 Amps Watt Hour Meter	Each	963.50
4	THREE PHASE WATT HOUR METERS		
a.	AC 3 phase 400V 50 HZ unbalanced load 4 wire 10 Amps Watt Hour Meter	Each	1987.00
b.	AC 3 phase 400V 50 HZ unbalanced load 4 wire 25 Amps Watt Hour Meter	Each	1987.00
c.	AC 3 phase 400 V 50 HZ unbalanced load 4 wire 50 Amps Watt Hour Meter	Each	2516.00
V	PART 'E'		
1	PVC INSULATED SINGLE CORE MULTI STRAND FIRE RETARDANT FLEXIBLE COPPER CABLE WITH ISI MARK CONFORMING TO IS		
a.	14/0.3 (1 sq.mm)	Metre	10.45
b.	22/0.3 (1.5 sq.mm)	Metre	16.55
c.	36/0.3 (2.5 sq.mm)	Metre	25.75
d.	56/0.3 (4 sq.mm)	Metre	40.95
e.	84/0.3 (6 sq.mm)	Metre	60.65
f.	140/0.3 (10 sq.mm)	Metre	91.25
g.	101/0.45 (16 sq.mm)	Metre	149.25
h.	168/0.45 (25 sq.mm)	Metre	327.80
2	CONDUCTOR		
a.	Hard drawn copper conductor(Gauge No.8 & 6)	KG	615.00

Item No.	Description	Unit	Rates for the year 2022-23
b.	14 SWG TC wire	KG	630.00
c.	GI No.8 wire and No. 6 wire	KG	101.50
3	CABLE GLANDS		
a.	Cable gland suitable for 2 core 4 sq.mm UG cable	Each	18.30
b.	Cable gland suitable for 2 core 6 sq.mm UG cable	Each	22.90
c.	Cable gland suitable for 2 core 10 sq.mm UG cable	Each	27.40
d.	Cable gland suitable for 2 core 16 sq.mm UG cable	Each	40.60
e.	Cable gland suitable for 2 core 25 sq.mm UG cable	Each	48.45
f.	Cable gland suitable for 3½ core 25 sq.mm UG cable	Each	48.45
g.	Cable gland suitable for 3½ core 35 sq.mm UG cable	Each	61.70
h.	Cable gland suitable for 3½ core 50 sq.mm UG cable	Each	61.70
I	Cable gland suitable for 3½ core 70 sq.mm UG cable	Each	76.10
j	Cable gland suitable for 3½ core 95 sq.mm UG cable	Each	92.90
k	Cable gland suitable for 3½ core 120 sq.mm UG cable	Each	118.30
l	Cable gland suitable for 3½ core 150 sq.mm UGcable	Each	155.70
m	Cable gland suitable for 3½ core 185 sq.mm UGCable	Each	184.20
n	Cable gland suitable for 3½ core 240 sq.mm UG cable	Each	184.20
o	Cable gland suitable for 3½ core 300 sq.mm UGcable	Each	219.90
p	Cable gland suitable for 3 ½ core 400 sq.mm UGcable	Each	313.00
q	Cable gland suitable for 3 ½ core 500 sq.mm UG cable	Each	364.90
r	Cable gland suitable for 4 core 6 sq.mm UG cable	Each	22.90
s	Cable gland suitable for 4 core 10 sq.mm UG cable	Each	27.40
t	Cable gland suitable for 4 core 25 sq.mm UG cable	Each	48.45
4	FUSE WIRE(COPPER)		
a.	5 Amps fuse wire	Kg	615.00
b.	10 Amps fuse wire	Kg	615.00
c.	20 Amps fuse wire	Kg	615.00
5	NEUTRAL LINK 15 AMPS		
a.	4 way Neutral Link	Each	30.40
b.	6 way Neutral Link	Each	45.10
c.	8 way Neutral Link	Each	56.20
d.	12 way Neutral Link	Each	81.80
VI	PART ' F '		
1	M.S. BOX WITH PAINTING (16 SWG)		
a.	M.S Box of Size (100 x 100 x 75mm)	Each	51.10
b.	M.S Box of Size (150 x 100 x 75mm)	Each	70.70
c.	M.S Box of Size (200 x 150 x 75mm)	Each	115.10

Item No.	Description	Unit	Rates for the year 2022-23
d.	M.S Box complete with Lock & Key arrangements with painting of size (300 x 200 x 100 mm)	Each	348.00
2	Synthertic Moulded Coumpound box for street light	Each	947.00
VII	PART ' G '		
1	MS ANGLES		
a.	1½ " x 1½" x 1/4" (37.5 x 37.5 x 6.24 mm) (1M= 3.25 Kg)	KG	57.60
b.	1½"x 1½" x ½" (37.5 x 37.5 x 12.5mm)	KG	57.60
c.	2" x 2" x ½" (50 x 50 x 12.5 mm)	KG	57.60
2	ALUMINIUM FLAT		
a.	Aluminium Flat (1"x 1/4") (25x 6.25 mm)	KG	176.50
b.	Aluminium Flat (1"x1/8")	KG	176.50
3	COPPER FLAT		
a.	Copper Flat (25 x 3 mm)	KG	562.00
b.	Copper Flat (25 x 6 mm)	KG	562.00
c.	Copper Flat (33 x 6 mm)	KG	562.00
d.	Copper Flat (50 x 6 mm)	KG	562.00
4	POWER CAPACITOR		
a.	Power capacitor for power factor improvement with oil filled with discharge resistance 3 phase 415/440V 50 HZ conforming to ISS with ISI marking	KVAR	318.00
5	Plate Earthing	Each	11200.00
VIII	PART ' H '		
1	CONDUIT MATERIALS 16 Gauge		
a.	Conduit pipe 16 mm (5/8") Heavy Gauge	Metre	34.90
b.	Conduit pipe 19 mm (3/4") Heavy Gauge	Metre	36.20
c.	Conduit pipe 25 mm (1") Heavy Gauge	Metre	44.40
d.	Conduit pipe 32 mm (1¼") Heavy Gauge	Metre	58.50
e.	Conduit pipe 38 mm (1½") Heavy Gauge	Metre	68.90
2	CONDUIT TEE BENDS		
a.	Conduit Tee bends 16 mm (5/8")	Dozen	98.20
b.	Conduit Tee bends 19 mm (3/4")	Dozen	99.30
c.	Conduit Tee bends 25 mm (1")	Dozen	119.20
d.	Conduit Tee bends 32 mm (1¼")	Dozen	123.40
e.	Conduit Tee bends 38 mm (1½")	Dozen	153.80
f.	Conduit Tee bends 50 mm (2")	Dozen	192.20
3	CONDUIT BENDS 16 Gauge		
a.	Conduit solid bends 16 mm (5/8")	Dozen	93.00

Item No.	Description	Unit	Rates for the year 2022-23
b.	Conduit solid bends 19 mm (3/4")	Dozen	103.50
c.	Conduit solid bends 25 mm (1")	Dozen	122.30
d.	Conduit solid bends 32 mm (1¼")	Dozen	144.50
e.	Conduit solid bends 38 mm (1½")	Dozen	205.00
f.	Conduit solid bends 50 mm (2")	Dozen	251.00
4	CONDUIT INSPECTION BEND 16 Gauge		
a.	Conduit Inspection bends 16 mm (5/8")	Dozen	93.00
b.	Conduit Inspection bends 19 mm (3/4")	Dozen	96.20
c.	Conduit Inspection bends 25 mm (1")	Dozen	123.40
d.	Conduit Inspection bends 32 mm (1 ¼")	Dozen	148.70
e.	Conduit Inspection bends 38mm (1½")	Dozen	192.50
f.	Conduit Inspection bends 50mm (2")	Dozen	218.70
g.	Conduit Inspection bends 65mm (2½")	Dozen	281.60
5	HDPE Pipe		
a.	HDPE pipe 50mm/ 38mm	RM	103.00
b.	HDPE pipe 90mm/ 76mm	RM	212.00
c.	HDPE pipe 120mm/ 103.50mm	RM	264.60
6	Cable Tray		
a.	GI Hot dip/ Powder coated 16 SWG Cable tray with 150mm width and 50mm height	RM	328.20
b.	GI Hot dip/ Powder coated 16 SWG Cable tray with 300mm width and 50mm height	RM	399.60
IX	PART ' I '		
1	PVC (RIGID) PIPES (1.8 MM THICK)WITH ISI MARK		
a.	PVC rigid pipes 16mm (5/8")	Metre	13.75
b.	PVC rigid pipes 20mm (3/4")	Metre	20.00
c.	PVC rigid pipes 25mm (1")	Metre	29.80
d.	PVC rigid pipes 32mm (1¼")	Metre	45.10
e.	PVC rigid pipes 40mm (1½")	Metre	64.40
f.	PVC rigid pipes 50mm (2")	Metre	96.60
2	PVC RIGID BENDS		
a.	PVC rigid bends 16mm (5/8")	Each	3.15
b.	PVC rigid bends 20mm (3/4")	Each	3.15
c.	PVC rigid bends 25mm (1")	Each	4.30
d.	PVC rigid bends 32mm (1¼")	Each	7.65
e.	PVC rigid bends 40mm (1½")	Each	19.30
f.	PVC rigid bends 50mm (2")	Each	23.60

Item No.	Description	Unit	Rates for the year 2022-23
3	PVC COUPLES		
a.	PVC Couples 16mm (5/8")	Dozen	13.85
b.	PVC Couples 19mm (3/4")	Dozen	13.85
c.	PVC Couples 25mm (1")	Dozen	26.95
d.	PVC Couples 32mm (1¼")	Dozen	61.85
e.	PVC Couples 38mm (1½")	Dozen	132.50
f.	PVC Couples 50mm (2")	Dozen	138.30
4	PVC TEES		
a.	PVC Tees 16mm (5/8")	Dozen	13.85
b.	PVC Tees 19mm (3/4")	Dozen	16.05
c.	PVC Tees 25mm (1")	Dozen	20.55
d.	PVC Tees 32mm (1¼")	Dozen	92.30
e.	PVC Tees 38mm (1½")	Dozen	296.30
f.	PVC Tees 50mm (2")	Dozen	324.40
5	PVC Saddles		
a.	PVC Saddles 16 mm (5/8")	Dozen	3.15
b.	PVC Saddles 19mm (3/4")	Dozen	3.60
c.	PVC Saddles 25mm (1")	Dozen	4.20
d.	PVC Saddles 32mm (1¼")	Dozen	5.25
e.	PVC Saddles 38mm (1½")	Dozen	6.45
f.	PVC Saddles 50mm (2")	Dozen	12.90
6	PVC JUNCTION BOXES		
a.	Junction boxes 1,2,3 & 4 way 16 mm (5/8")	Dozen	43.25
b.	Junction boxes 1,2,3 & 4 way 19 mm (3/4")	Dozen	43.25
c.	Junction boxes 1,2,3 & 4 way 25 mm (1")	Dozen	50.90
d.	Junction boxes 1,2,3 & 4 way 32 mm (1¼")	Dozen	113.00
e.	Junction boxes 1,2,3 & 4 way 38 mm (1½")	Dozen	134.40
7	PVC Hylem sheets		
a.	Hylem sheet 3 mm thick	Sq.m	661.00
8	Insulation Tape PVC		
a.	PVC Insulation Tape (19mm)	Roll/10 mts	16.05
b.	Empire Tape (12 mm)	Roll/10 mts	21.60
c.	Empire Tape (19 mm)	Roll/10 mts	25.90
9	CABLE MANAGEMENT SYSTEM		
a.	Cable Management Box with Cover		
i.	50 mm x 80 mm	Mtr	954.00
ii	150 mm x 105 mm	Mtr	1212.00
b	Divider	Each	207.00

Item No.	Description	Unit	Rates for the year 2022-23
c.	Cover Joint	Each	116.00
d.	End Cap	Each	191.90
e.	Joint for Top Part	Each	217.00
f.	Joint for Bottom Part	Each	262.60
X	PART ' J '		
1	TEAK WOOD MATERIALS		
	T.W. BOX CONCEALED TYPE		
a.	T.W. Box concealed type 12"x8"x3"	Each	69.90
b.	T.W.Box concealed type 8"x6"x3"	Each	37.10
c.	T.W. Box concealed type 6"x4"x3"	Each	16.50
d.	T.W. Box concealed type 4"x4"x3"	Each	13.80
e.	T.W. plugs 1½" x 1" x2"	1000 Nos.	287.00
f.	T.W. Round blocks	100 Nos.	558.00
XI	PART ' K '		
1	CRIMPING LUGS SUITABLE FOR THE FOLLOWING SIZES		
	Size	Aluminium (Each)	Copper (Each)
a.	4 Sq.mm	1.44	4.75
b.	6 Sq.mm	1.60	4.75
c.	10 Sq.mm	2.05	5.95
d.	16 Sq.mm	2.05	7.20
e.	25 Sq.mm	3.15	12.05
f.	35 Sq.mm	4.15	13.30
g.	50 Sq.mm	6.25	15.70
h.	70 Sq.mm	8.30	25.50
i.	95 Sq.mm	9.50	31.60
j.	120 Sq.mm	12.70	43.80
k.	150 Sq.mm	16.95	56.00
l.	185 Sq.mm	22.10	85.30
m.	225 Sq.mm	32.90	121.80
n.	240 Sq.mm	36.00	121.80
o.	300 Sq.mm	50.00	164.40
p.	400 Sq.mm	74.60	249.90
2	CABLE ROUTE INDICATOR		
a.	Cable route indicator for L.T cable	Each Box	81.40

Item No.	Description	Unit	Rates for the year 2022-23
b	Cable route indicator for H.T cable	Each Box	81.40
XII	PART ' L '		
1	BRASS SCREWS		
a.	Brass Screws (20mm) ¾" No.6	Gross	60.15
b	Brass Screws (25mm) 1" No.6	Gross	64.90
c.	Brass Screws (40mm) 1½" No.6	Gross	69.40
d.	Brass Screws (20mm) ¾" No.8	Gross	60.15
e.	Brass Screws (25mm) 1" No.8	Gross	64.90
f.	Brass Screws (50mm) 2" No.10	Gross	134.30
g.	Brass screws (75mm) 3" No.10	Gross	198.70
2	Coach screws 2"x¼" (50 x 6.25mm)	Dozen	11.90
3	CONDUIT SADDLES		
a.	Conduit Saddles 16mm (5/8")	Gross	41.00
b	Conduit Saddles 19mm (3/4")	Gross	43.70
c.	Conduit Saddles 25mm (1")	Gross	51.30
d.	Conduit Saddles 32mm (1¼")	Gross	66.80
e.	Conduit Saddles 38mm (1½")	Gross	82.00
f.	Conduit Saddles 50mm (2")	Gross	92.65
g.	Conduit Saddles 65mm (2½")	Gross	105.55
4	SODIUM VAPOUR FITTINGS & LAMP		
	(For External Electrification & Campus lighting) (Lower end)		
a.	250 Watts Sodium Vapour fittings	Each	3055.00
b	250 Watts Sodium Vapour lamp	Each	674.00
c.	150 Watts Sodium Vapour fittings	Each	3012.00
d.	150 Watts Sodium Vapour lamp	Each	577.00
e.	70 Watts Sodium Vapour fittings	Each	2429.00
f.	70 Watts Sodium Vapour lamp	Each	383.00
5	SODIUM VAPOUR LAMP FITTING SINGLE PIECE DIE CAST ALUMINIUM HOUSING & LAMP FOR HEAVY TRAFFIC ROADS (Higher end)		
a.	400 Watts sodium vapour fittings	Each	9135.00
b	400 Watts sodium vapour lamp	Each	947.00
c.	250 Watts sodium vapour fittings	Each	6230.00
d.	250 Watts sodium vapour lamp	Each	765.00
e.	150 Watts sodium vapour fittings	Each	5845.00

Item No.	Description	Unit	Rates for the year 2022-23
f.	150 Watts sodium vapour lamp	Each	629.00
g.	70 Watts sodium vapour fittings	Each	2499.00
h.	70 Watts sodium vapour lamps	Each	433.00
6	MINIATURE CIRCUIT BREAKERS 240 V/415 V 50HZ AC SUPPLY SUITABLE FOR BOTH LIGHTING AND MOTOR CIRCUITS.	Higher End (Each)	Lower End (Each)
a.	Single pole 6A to 32A,10 KA	174.00	128.00
b.	Single pole 40A , 10 KA	360.00	267.00
c.	Single pole & Neutral 6A to 32A, 10 KA	516.00	388.00
d.	Single pole & Neutral 40A, 10 KA	837.00	540.00
e.	Double pole 6A to 32A, 10 KA	516.00	428.00
f.	Double pole 40A, 10 KA	837.00	586.00
g.	Triple pole 6A to 32A, 10 KA	830.00	647.00
h.	Triple pole 63A , 10 KA	1262.00	1030.00
I	Triple pole & Neutral 6A to 32A, 10 KA	1092.00	843.00
j.	Triple pole & Neutral 63A, 10 KA	1633.00	1299.00
k.	Four pole 6A to 32A, 10 KA	1092.00	902.00
l.	Four pole 63A, 10 KA	1633.00	1383.00
7	MCB		
a.	100 A Triple Pole MCB	Each	6985.00
b.	125 A Triple Pole MCB	Each	7755.00
c.	100 A Four Pole MCB	Each	8915.00
d.	125 A Four Pole MCB	Each	10080.00
8	PLUG AND SOCKETS IN SHEET STEEL ENCLOSURE WITHOUT MCBS	Higher End (Each)	Lower End (Each)
a.	10A single Pole	854.00	505.00
b.	20A Single Pole	912.00	512.00
c.	20A Double Pole	987.00	
d.	20A Triple Pole	1675.00	971.00
e.	32A Triple Pole	1998.00	1315.00
f.	63A Triple Pole	8145.00	

Item No.	Description	Unit	Rates for the year 2022-23
9	Sheet Steel Enclosure for MCB's	Higher End (Each)	Lower End (Each)
a	2 Pole	377.00	262.00
b	4 pole	554.00	322.00
10	RCCB/ ELCB		
a.	10 Amps 30 MA DP	2410.00	1771.00
b	25 Amps 30 MA DP	1987.00	1520.00
c.	40 Amps 30 MA DP	2199.00	1606.00
11	RCCB/ELCB (FOUR POLE)		
a.	25 Amps 30 MA	2737.00	1876.00
b	40 Amps 30 MA	2770.00	1919.00
c.	63 Amps 30 MA	3204.00	2178.00
12	HRC FUSES		
a.	16 Amps	61.70	30.05
b	32 Amps	64.00	50.50
c.	63 Amps	132.00	63.60
d.	125 Amps	308.00	141.10
e.	160 Amps	383.00	190.20
f.	200 Amps	395.00	190.20
g.	250 Amps	551.00	281.00
13	MCB ISOLATORS	Higher End (Each)	Lower End (Each)
a	32A -DP	270.80	-
b	32A - TP	452.00	-
c	32A -FP	518.00	-
d	40A -DP	373.00	258.00
e	40A - TP	648.00	475.00
f	40A -FP	834.00	580.00
g	63A -DP	500.00	329.00
h	63A - TP	856.00	519.00
i	63A -FP	912.00	606.00
j	100A -DP	-	425.00
k	100A - TP	941.00	675.00
l	100A -FP	961.00	739.00
XIII	PART "M"		
1	11 KV INDOOR VACCUM CIRCUIT BREAKER		
a	11 KV, 25 KA, 630 A, HT Indoor Single Panel Vaccum Circuit Breaker complete as per specification	Each	476000.00

Item No.	Description	Unit	Rates for the year 2022-23
b	11 KV, 25 KA, 630 A, HT Indoor Three Panel Vaccum Circuit Breaker complete as per specification	Each	1213000.00
c	11 KV, 25 KA, 630 A, HT Indoor Four Panel Vaccum Circuit Breaker complete as per specification	Each	1721000.00
d	11 KV, 25 KA, 630 A, HT Indoor Five Panel Vaccum Circuit Breaker complete as per specification	Each	2064000.00
2	11 KV OUTDOOR VACCUM CIRCUIT BREAKER		
a	11 KV, 25 KA, 630 A, HT Outdoor Single Panel Vaccum Circuit Breaker complete as per specification	Each	497000.00
b	11 KV, 25 KA, 630 A, HT Outdoor Three Panel Vaccum Circuit Breaker complete as per specification	Each	1243000.00
c	11 KV, 25 KA, 630 A, HT Outdoor Four Panel Vaccum Circuit Breaker complete as per specification	Each	1741000.00
d	11 KV, 25 KA, 630 A, HT Outdoor Five Panel Vaccum Circuit Breaker complete as per specification	Each	2085000.00
3	11 KV INDOOR RING MAIN GEAR (RMG)		
a	11 KV, 25 KA, 630 A, HT Indoor Three Panel Ring Main Gear complete as per specification	Each	692000.00
4	11 KV OUTDOOR RING MAIN GEAR (RMG)		
a	11 KV, 25 KA, 630 A, HT Outdoor Three Panel Ring Main Gear complete as per specification	Each	725000.00
5	CABLES, ACCESSORIES AND KITS		
a	120-185 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3111	Each	11770.00
b	240-300 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3121	Each	12570.00
c	120-185 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3362	Each	16260.00
d	240-300 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3372	Each	18290.00
e	240-400 sq.mm. 3 core HT Cable Indoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4685	Each	16580.00
f	240-400 sq.mm. 3 core HT Cable Outdoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4961	Each	21930.00

Item No.	Description	Unit	Rates for the year 2022-23
g	150-185 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables - EPKT 5363	Each	23320.00
h	240-400 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables-EPKT 5373	Each	31030.00
i	185-240 sq.mm 3 core HT Cables Straight Through Joints 22KV (E) Screened XLPE Cables-EPKJ 5118	Each	60990.00
j	300-400 sq.mm. 3 core HT Cable Straight Thorough Joints 22KV (E) Screened XLPE Cables - EPKJ 5119	Each	68150.00
	PART "N"		
1	SUPPLY & INSTALLATION OF AIR-CONDITIONER WITH COPPER COIL	3 Star Rated	5 Star Rated
a	1.5 TR Split Type AC Unit	33170.00	44160.00
b	2.0 TR Split Type AC Unit	44160.00	56370.00
c	Supply and installation of 4 KVA capacity Automatic Voltage Stabilizer with time delay relay	Each	4441.00
d	Supply and installation of 5 KVA capacity Automatic Voltage Stabilizer with time delay relay	Each	4940.00
e	Supply and laying of 5/8" and 3/8" copper pipe (Extra beyond 3 metres supplied with AC unit)	Each	940.00
f	Supply and fixing of MS stand for fixing outdoor unit	Each	1088.00
2	SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND HANDING OVER OF AIR-COOLED SELF CONTAINED DUCTABLE AC UNITS		
a	3.0 TR Ceiling Suspended Ductable Unit	Each	98095.00
b	5.0 TR Ceiling Suspended Ductable Unit	Each	169300.00
c	8.5 TR Ceiling Suspended Ductable Unit	Each	230700.00
d	11 TR Ceiling Suspended Ductable Unit	Each	297700.00
e	17 TR Ceiling Suspended Ductable Unit	Each	431600.00
f	5.5 TR Floor Mounted Ductable Unit	Each	357800.00

Item No.	Description	Unit	Rates for the year 2022-23
g	8.5 TR Floor Mounted Ductable Unit	Each	369600.00
h	11 TR Floor Mounted Ductable Unit	Each	406000.00
i	17 TR Floor Mounted Ductable Unit	Each	580000.00
j	25 TR Floor Mounted Ductable Unit	Each	697000.00
3	ACCESSORIES FOR PACKAGE AC		
a	Supply and filling of R-22 Refrigerant Gas	KG	571.80
b	Supply and fixing of Copper Refrigerant Piping of 7/8" dia	RM	1037.90
c	Supply and fixing of Flexible Canvas Connection	Each	2767.00
d	Supply and fixing of 50mm thick Anti Vibrating Rubber Pads	Sqm.	543.40
e	Supply, Fabrication and erection of fabricated ducting made up of GI Sheets of 24 Gauge thickness	RM	848.60
f	Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 22 Gauge thickness	Sqm.	1136.00
g	Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 20 Gauge thickness	Sqm.	1413.00
h	Supply and fixing of extruded aluminum powder coated, Supply and return Air Grilles / Diffusers with Volume Control Damper	Sqm.	7911.00
i	Supply and fixing of water drain pipe line (1" PVC Pipe)	RM	64.10
j	Supply, fabrication and fixing of MS Channel for Mounting the Airconditioning Indoor Unit	Each	7320.00
k	Supply, fabrication and fixing of Ms Channel for Mounting the Airconditioning Outdoor Unit	RM	6230.00
l	Supply and providing of pipeline nitrle rubber insulation for Refrigerant and drain pipe lines.	RM	55.25
m	Supply and fixing of Duct Mouth Dampers	Set	2371.00
n	Supply and providing acoustic for initial portion of ducting with 12mm thick Fibre Glass Rigid Board covered with Tissue Paper and Aluminum Perforated Sheet	Sqm.	841.50

Item No.	Description	Unit	Rates for the year 2022-23
o	Supply and providing thermal insulation of 9mm thick vidoflex with Aluminum Foil	Sqm.	820.00
p	Supply and providing Civil Concrete Block for Mounting the Airconditioning Unit	Each	705.00
q	Supply and laying of 30 sq.mm. incoming cable	RM	381.60
r	Supply and providing of 10 sq.mm. copper flexible single cable	RM	88.40
s	Supply and providing of 1.5 sq.mm. copper flexible cable	RM	19.70
t	Supply and providing of 0.5 sq.mm. 4 core flexible signal cable	RM	16.45
4	VARIABLE REFRIGERANT FLOW (VRF) AIR - CONDITIONING SYSTEM		
a	Inverter Scroll Compressor Modular VRF ODU		
i	34.0 HP	Each	768200.00
ii	32.0 HP	Each	731100.00
iii	30.0 HP	Each	684800.00
iv	28.0 HP	Each	641000.00
v	26.0 HP	Each	593300.00
vi	24.0 HP	Each	543600.00
vii	22.0 HP	Each	513500.00
viii	20.0 HP	Each	470100.00
ix	18.0 HP	Each	404800.00
x	16.0 HP	Each	360600.00
xi	14.0 HP	Each	348800.00
xii	12.0 HP	Each	317000.00
xiii	10.0 HP	Each	239100.00
xiv	8.0 HP	Each	230300.00
b	High ESP Duct (200 Pa / 220 Pa) with wired controller, No Drain Pump		
i	6.3 TR	Each	82425.00
ii	8.0 TR	Each	85170.00
iii	12.8 TR	Each	145600.00
iv	16.0 TR	Each	152400.00

Item No.	Description	Unit	Rates for the year 2022-23
c	Wall - Mounted Panel with Cordless Remote Controller		
i	0.63 TR	Each	18010.00
ii	0.80 TR	Each	19130.00
iii	1.03 TR	Each	22180.00
iv	1.28 TR	Each	22895.00
v	1.60 TR	Each	24015.00
vi	2.02 TR	Each	24520.00
5	SUPPLY AND FILLING REFRIGERANT GAS		
a	R 410 A	kg	610.50
b	R 407 C	kg	610.50
	REFRIGERANT PIPE		
a	36.90 mm	RM	1948.00
b	28.60 mm	RM	1780.00
c	22.20 mm	RM	1495.00
d	19.10 mm	RM	1139.00
e	15.90 mm	RM	1068.00
f	12.70 mm	RM	966.70
g	9.50 mm	RM	768.20
h	6.40 mm	RM	671.60
7	DRAIN PIPE		
a	25 mm	RM	167.90
b	32 mm	RM	201.40
c	40 mm	RM	246.20
d	50 mm	RM	291.00
8	Supply and fixing of Refnet Joint	Each	9178.00
9	GENERATORS WITH STANDARD PANEL		
a	5 KVA	Each	205600.00
b	7.5 KVA	Each	214600.00
c	10 KVA	Each	242600.00
d	15 KVA	Each	260800.00
e	20 KVA	Each	274200.00
f	30 KVA	Each	333700.00

Item No.	Description	Unit	Rates for the year 2022-23
g	35 KVA	Each	356300.00
h	40 KVA	Each	415800.00
i	45 KVA	Each	485700.00
j	62.5 KVA	Each	558600.00
k	82.5 KVA	Each	658800.00
l	100 KVA	Each	732600.00
m	125 KVA	Each	842100.00
n	160 KVA	Each	1143700.00
o	200 KVA	Each	1397000.00
p	250 KVA	Each	1573000.00
q	500 KVA	Each	3986000.00
10	GENERATORS WITH AUTO MAIN FAILURE (AMF) PANEL		
a	62.5 KVA	Each	671200.00
b	82.5 KVA	Each	771200.00
c	100 KVA	Each	957800.00
d	125 KVA	Each	1066000.00
e	160 KVA	Each	1368600.00
f	200 KVA	Each	1622000.00
g	250 KVA	Each	1798000.00
6	Exhaust Pipe with Silencer	RM	2215.00
11	PASSENGER LIFTS (G+3)		Higher End
	SS 304 Grade with 1m/sec. speed with ARD		
A	8 Persons Passenger Lift Car Size (1300 x 1100)		
a	Gearless Lift with Machine Room	Each	1526400.00
b	Gearless Lift without Machine Room	Each	1597600.00
B	10 Persons Passenger Lift Car Size (1300 x 1350)		
a	Gearless Lift with Machine Room	Each	1594500.00
b	Gearless Lift without Machine Room	Each	1671900.00

Item No.	Description	Unit	Rates for the year 2022-23
C	13 Persons Passenger Lift Car Size (2000 x 1100)		Higher End
a	Gearless Lift with Machine Room	Each	1775700.00
b	Gearless Lift without Machine Room	Each	1857100.00
D	20 Persons Passenger Lift Car Size (2000 x 1500)		Higher End
a	Gearless Lift with Machine Room	Each	2207100.00
b	Gearless Lift without Machine Room	Each	2345500.00
	Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift		
12	BED-CUM-PASSENGER LIFTS (G+3)SS 304 Grade with 1m/sec. speed with ARD		
A	15 Persons Passenger Lift Car Size (1000 x 2400)		Higher End
a	Gearless Lift with Machine Room	Each	1937500.00
b	Gearless Lift without Machine Room	Each	2060600.00
B	20 Persons Passenger Lift Car Size (1300 x 2400)		
a	Gearless Lift with Machine Room	Each	2315000.00
b	Gearless Lift without Machine Room	Each	2410600.00
C	26 Persons Passenger Lift Car Size (1600 x 2400)		
a	Gearless Lift with Machine Room	Each	2631500.00
b	Gearless Lift without Machine Room	Each	2836000.00

Item No.	Description	Unit	Rates for the year 2022-23
	Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift		
13	I PHASE UPS (Single Phase In & single phase Out)	System with Battery Each	
	CAPACITY	1 Hour Backup	2 Hours Backup
a	1 KVA	29790.00	39800.00
b	2 KVA	65650.00	86300.00
c	3 KVA	79280.00	136300.00
d	5 KVA	146400.00	202000.00
e	7.5 KVA	176700.00	230200.00
14	3 PHASE UPS (Three Phase In & Single Phase Out)	System with Battery Each	
		1 Hour Backup	2 Hours Backup
a	7.5 KVA	186800.00	239800.00
b	10 KVA	272700.00	363600.00
c	15 KVA	373700.00	450400.00
XV	PART "O"		
1	GI STEEL TUBULAR POLE FOR STREET LIGHT		
a	4 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length	Each	6350.00
b	4 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length	Each	7230.00
c	6 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length	Each	7590.00
d	6 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length	Each	8470.00

Item No.	Description	Unit	Rates for the year 2022-23
e	7 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	9730.00
	114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length		
f	7 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	10700.00
	114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length		
g	7.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	10870.00
	114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length		
h	7.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	12010.00
	114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length		
i	8 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	11190.00
	114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length		
j	8 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	12320.00
	114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length		
k	8.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	11930.00
	114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length		

Item No.	Description	Unit	Rates for the year 2022-23
l	8.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm)	Each	13390.00
	114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length		
m	9 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	11930.00
	114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length		
n	9 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	13390.00
	114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length		
o	10 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	15800.00
	139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length		
p	10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	16230.00
	139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length		
q	12 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	18620.00
	165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length		
r	10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm)	Each	20640.00

Item No.	Description	Unit	Rates for the year 2022-23
	165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length		
2	Octogonal post		
a	Supply erection of 8mm free standing single arm bracket 8 sided octogonally continuously tapered structured pole with base plate of size 300x300x12mm as per IS 875 with following specifications. Bottom pole dia - 130mm Top Pole Dia - 70mm Thickness of pole - 3mm The pole should be hot tip galvanized confirming to BESN ISO 1461 with thickness of 65 micron	Each	20790.00
b	Supply erection of 8mm free standing double arm bracket 8 sided octogonally continuously tapered structured pole with base plate of size 300x300x12mm as per IS 875 with following specifications. Bottom pole dia - 130mm Top Pole Dia - 70mm Thickness of pole - 3mm The pole should be hot tip galvanized confirming to BESN ISO 1461 with thickness of 65 micron	Each	21920.00
c	Supply erection of 7mm free standing double arm bracket 8 sided octogonally continuously tapered structured pole with base plate of size 250x250x12mm as per IS 875 with following specifications. Bottom pole dia - 140mm Top Pole Dia - 70mm Thickness of pole - 3mm The pole should be hot tip galvanized confirming to BESN ISO 1461 with thickness of 65 micron	Each	20910.00
3	Minimast (12 metre) with 6 Nos. 150W LED Fitting	Each	349800.00
4	Highmast (162 metre) with 8 Nos. 150W LED Fitting	Each	528100.00
5	LIGHTNING ROD		
a	Supply of Early Streamer Emission Air Terminal (ESEAT). Model: L	Each	74580.00

Item No.	Description	Unit	Rates for the year 2022-23
	<p>The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time (ΔT_s) obtained during the lab test for the offered model is 60 μs. The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011).</p>		
	<p>ESEAT Model : L - Radius of protection : 86 Metres Level of protection considered for the Project-II level</p>		
b	<p>Supply of Early Streamer Emission Air Terminal (ESEAT). Model: S</p> <p>The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time (ΔT_s) obtained during the lab test for the offered model is 60 μs.</p> <p>The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011)</p> <p>ESEAT Model : S - Radius of protection : 46 Metres Level of protection considered for the Project-II level</p>	Each	66230.00

Item No.	Description	Unit	Rates for the year 2022-23
c	MOUNTING STRUCTURE		
	Supply of Standard / Special Mounting Structure of height 4.5 mts. pipe, and 300 x 300 x 8mm MS plate, 3 mts. 48mm OD class C GI outer pipe, 1.8 mtr, 38mm OD inner pipe, for roof mounting on concrete base and with FRP adapter	Each	19875.00
d	DOWN CONDUCTOR		
	Supply and run of 25mm x 6mm GI Flat Down Conductor with necessary clamps / supports on wall / floor / ground for earth connection	Mtr	115.00
e	TEST LINK		
	Supply of Test Link Box for each Down conductor in order to disconnect the earth termination system to enable measurement of resistance	Each	4891.00
f	EARTH ELECTRODE		
	Supply and installation maintenance free GI Earthing System comprising of 50mm dia and 2 mtr. long earth electrode of low carbon steel rod with 100 micron bonding and 25 kgs. of carbon based environment friendly backfill compound and suitable clamp	Each	9027.00
g	SURGE PROTECTION		
	Supply and installation Cabinet Type Class 1 and 2 Combined Model SPD to arrest surges and overvoltages in the power line due to lightning switching action etc. they must be installed in the incoming MCC panel / DB of the respective building in parallel to the power circuit.	Each	18960.00
	Model: PSV4-12.5/400TT (3 phase power network)		
XVI	PART "P"		
	Conference type Public Address System, Projector and Motorized Screen		Higher End
1	Chairman Unit	Each	15245.00
2	Delegate Unit	Each	13510.00
3	Conference Controller	Set	33800.00
4	PA Mixer Amplifier 120W	Set	20350.00
5	PA Mixer Amplifier 240W	Set	26110.00
6	PA Booster Amplifier 480W	Set	45100.00
7	Wall Speaker 15W	Each	8765.00
8	Wall Speaker 30W	Each	12740.00
9	Ceiling Speaker 15W	Each	2217.00

Item No.	Description	Unit	Rates for the year 2022-23
10	Ceiling Speaker 20W	Each	3427.00
11	Cordless Mic UHF	Each	20400.00
12	8 Pin Conference Mic socket with Modular Box and Front Plate	Each	334.00
13	2 Core 1.5 sq.mm Shielded Copper Speaker Wire	RM	41.30
14	8 Core 1.5 sq.mm PVC Copper Conference Cable	RM	158.50
15	3200 Ansi Lumens Projector, XGA (1024 x 768) Resolution, Contrast Ratio : 4000:1	Each	39570.00
16	3600 Ansi Lumens Projector, XGA (1024 x 768) Resolution, Contrast Ratio : 20000:1	Each	56290.00
17	3300 Ansi Lumens Short Throw Projector, WXGA (1280 x 800) Resolution, Contrast Ratio : 3000 : 1	Each	99180.00
18	6' x 4' Motorized Screen	Each	12200.00
19	8' x 6' Motorized Screen	Each	16380.00
20	10' x 8' Motorized Screen	Each	19670.00
21	3 Feet Ceiling Mount Kit	Each	4336.00
22	20 Metre HDMI Cable	Set	4294.00
23	3 Core 1.5 sq.mm PVC Power cable for Projector	RM	58.30
24	Unarmoured 0.5mm Telephone cable		
	2 Pair	RM	9.15
	4 Pair	RM	16.45
	10 Pair	RM	38.90
	20 Pair	RM	72.10
	50 Pair	RM	162.60
25	Armoured 0.5mm Jellyfilled Telephone Cable		
	10 Pair	RM	151.30
	20 Pair	RM	222.40
	50 Pair	RM	432.40
	100 Pair	RM	749.90
	200 Pair	RM	1395.00
26	Unarmoured Co-axial Cable for TV		
	RG-06	RM	23.60
	RG-11	RM	53.50
27	Armoured Co-Axial cable for TV		
	RG-06	RM	90.50
	RG-11	RM	128.60
28	Unarmoured LAN & CCTV Cable		
	CAT-6	RM	29.65
29	Armoured LAN & CCTV Cable		
	CAT-6	RM	106.00

Item No.	Description	Unit	Rates for the year 2022-23
30	Unarmoured Speaker Cable		
	2 Core - 1.00 sq.mm	RM	28.65
	2 Core - 1.5 sq.mm	RM	41.20
31	Armoured Speaker Cable		
	2 Core - 1.5 sq.mm	RM	85.45
	2 Core - 2.5 sq.mm	RM	106.00
32	OFC Cable		
	6 Core indoor	RM	54.50
	6 core outdoor	RM	59.55
	12 core indoor	RM	69.80
33	PoE Switches for CCTV IP camera		Higher End
	4 Port	Each	6219.00
	8 port	Each	8599.00
	24 Port	Each	19462.00
34	Network Video Recorder for CCTV		
	4 Channel - 1 SATA	Each	5624.00
	8 Chennel - 1 SATA (1 No. Hard disk)	Each	6490.00
	16 Chennel - 2 SATA (2 Nos. Hard disk)	Each	11893.00
	32 Chennel - 2 SATA (2 Nos. Hard disk)	Each	21624.00
35	LAN NETWORK SWITCHES		
I	Un Managed 10/ 100/1000		
	8 Port	Each	2000.00
	16 Port	Each	5245.00
	24 Port	Each	6436.00
II	Semi managed 10/100/1000		
	24 Port	Each	12107.00
III	Fully Managed 10/100/1000 Layer 2 with 1G Uplink		
	8 Port	Each	17300.00
	24 Port	Each	35690.00
	24 Port with Fibre port	Each	63810.00
	48 Port	Each	43240.00
IV	Fully Managed 10/100/1000 Layer 2 with 10G Uplink		
	24 Port	Each	38930.00
	28 Port	Each	50000.00
V	Fully Managed 10/100/1000 Layer 3 with 10G Uplink		
	24 Port	Each	113500.00
	24 Port with Fibre port	Each	129700.00
	48 Port	Each	210800.00
36	Media Convertor for optical fibre cable		
	Single mode	Each	5408.00
	Multi mode	Each	4867.00
37	I/O Socket		
	RJ-45	Each	162.70
	RJ-11	Each	64.80
	CAT 6 PVC Module Box	Each	64.80

Item No.	Description	Unit	Rates for the year 2022-23
	Face plate single socket RJ-45	Each	97.70
	Face plate dual socket RJ-45	Each	108.00
	Face plate quad socket RJ-45	Each	119.20
38	Hard Disk for NVR		Higher End
	2 TB	Each	5948.00
	4 TB	Each	12600.00
	6 TB	Each	17090.00
	8 TB	Each	24870.00
39	Rack with Accessories		Higher End
	2U Rack	Each	1946.00
	4U Rack	Each	2702.00
	6U Rack	Each	3243.00
	9U Rack	Each	4324.00
	12U Rack	Each	6487.00
	36U Rack	Each	21625.00
	42U Rack	Each	37840.00
	Fan extra for the above rack	Each	540.00
40	Patch Cord		Higher End
	1 Metre Length	Each	140.60
	2 Metre Length	Each	188.60
	3 Metre Length	Each	227.40
	24 Port Patch Panel - Unloaded	Each	2162.00
	24 Port Patch Panel - Fully loaded	Each	4056.00
	PART "Q"		
	HIRE CHARGES FOR TEMPORARY ARRANGEMENTS		
1	Metal Halide lamp		
a	1 day	Each	280.70
b	2 days	Each	353.00
c	3 days	Each	409.00
d	4 days	Each	460.00
e	5 days	Each	516.00
f	6 days	Each	561.00
g	7 days	Each	618.00
2	Generator	Starting & End day (Each)	Intermediate days (Each)
a	62.5 KVA	1,797.00	1438.00
b	125 KVA	3,709.00	2967.00
c	250 KVA	7,421.00	5936.00
d	320 KVA	8,882.00	7107.00
e	500 KVA	13,493.00	10790.00
3	Cable		
a	2 of 7/20 sq.mm	RM	2.14
b	4 of 7/20 sq.mm	RM	4.28
c	4 of 19/16 sq.mm	RM	11.75
d	4 of 7/16 sq.mm	RM	6.40
e	4 of 120 sq.mm	RM	56.70
f	3.5x 180 sq.mm LTUG	RM	22.45

Item No.	Description	Unit	Rates for the year 2022-23
g	4 of 185 sq.mm	RM	79.15
h	3 core flexible wire	RM	3.21
i	4 core flexible wire	RM	3.21
j	4 core 6 sq.mm copper cables	RM	6.40
k	4 x 10 sq.mm flexible cable	RM	6.40
l	2 of 3/ 20 sq.mm	RM	2.14
m	3 1/2 x 50 sq.mm LTUG	RM	11.75
n	Co- Axial cable	RM	1.07
4	Serial set		
a	2 days	RM	18.15
b	3 days	RM	26.75
5	Fly Catcher 2 days	Each	179.70
6	Air cooler with stand 2 days	Each	304.00
7	Air Circulator 2 days	Each	67.35
8	Pedestal fan	Each	44.90
9	LED Nose Light	Each	19.15
10	Earth pipe	Each	34.20
11	100A Change over switch	Each	169.00
12	250A Change over switch	Each	179.70
13	400A Change over switch	Each	224.20
14	250A Change over switch with Panel Board	Each	842.30
15	100A Panel Board with 100A TPN Switch & 5 Nos. 30A TPN switch with bus bar	Each	871.60
16	250A Panel Board with 250A TPN Switch & 7 Nos. 63A DPMCB switch	Each	1124.00
17	100A Panel Board incoming 100A TPN Switch with various range of TP/ DP/ SP MCB with suitable angle iron frame work	Each	831.00
18	200A Panel Board	Each	898.00
19	400A Panel Board	Each	1685.00
20	4'40 W Patty tube light with fitting	Each	26.60
21	15A/ 5A Plug board	Each	26.60
22	Blank post	Each	2080.00
23	6mtr GI post for metal Hallide fitting	Each	101.70
24	1.5 TR Split AC	Each	5622.00
25	2 TR Split AC	Each	7534.00
26	5 TR Split AC	Each	26530.00
27	7.5 TR Ductable AC	Each	38790.00
28	5 TR Slim pack	Each	26315.00
29	Air Curtain	Each	561.00
30	High power Audio sysytem	Each	50600.00
31	PA system	Each	7871.00

Item No.	Description	Unit	Rates for the year 2022-23
32	Amplifier, Mic, XLR	Each	5622.00
33	2x15 HF 3 way speaker	Each	1797.00
34	1x15 HF Speaker	Each	1124.00
35	4x12 Loud speaker	Each	673.00
36	Car calling system Arrangement	Each	3373.00
37	Cordless Mic	Each	561.00
38	Wired Mic	Each	561.00
39	32 Channel mixer Amplifier	Each	673.00
40	Laptop to play CD Songs	Each	2248.00
41	5KVA with 1 Hour back up	Each	8433.00
42	Power Amplifier	Each	224.80
43	Sony Video Camera	Each	5622.00
44	42" Plasma Screen	Each	2810.00
45	Mixer Board, Computer, UPS, etc.,	Each	8989.00
46	200W LED Flood light fitting	Each	224.80
47	5TR Slim Package AC	Each	28450.00
Note:	The Basic Rate adopted under this Head, "Rates of Electrical Items of Works" is exclusive of all taxes and GST.		

XVII VERTICAL THREE PHASE DISTRIBUTION BOARD WITH MCBS

4 Way / 8 way / 12 Way Vertical TPMCB sheet steel distribution boards Flush type/Surface type fitted with Bus bars and Neutral links with single / three phase MCB outgoing and separate 4 way provision for accommodating one No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB/ RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1.TPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/ RCD	No.of outgoing ways	Higher End (Each)	Lower End (Each)
4 Ways 3 Phase DB	4	4	12	5458.00	4484.00
8 Ways 3 Phase DB	4	4	24	6918.00	5521.00
12 Ways 3 Phase DB	4	4	36	9225.00	6791.00

2.TPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/ RCD	No.of outgoing ways	Higher End (Each)
4 Ways 3 Phase DB	4	4	12	6590.00
8 Ways 3 Phase DB	4	4	24	8390.00
12 Ways 3 Phase DB	4	4	36	11155.00
6 Way Vertical TPN Distributions boards; IP43 with double door (Metal); with 12 module incomers and 18 Single Phase/Three Phase/ MCB's outgoing; as per IS 8623 III			Each	10115.00

4.INDUSTRIAL TYPE TPMCB DB WITH IP 54 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/RCD	No.of outgoing ways	Higher End (Each)
4 Ways 3 Phase DB	4	4	12	10195.00
8 Ways 3 Phase DB	4	4	24	12305.00
12 Ways 3 Phase DB	4	4	36	16500.00

XVIII HORIZONTAL THREE PHASE DISTRIBUTION BOARD WITH MCBS

4 way / 6 way / 8 way / 12 way TPMCB sheet steel distribution boards Flush type / Surface type fitted with Bus bars and Neutral links with single/ three phase MCB outgoings and separate 4 way provision for accommodating one No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB / RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1.TPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/RCD	No.of outgoing ways	Higher End (Each)	Lower End (Each)
				Rate in Rs.	Rate in Rs.
4 Ways 3 Phase DB	4	4	12	2284.00	1807.00
6 Ways 3 Phase DB	4	4	18	2812.00	2284.00
8 Ways 3 Phase DB	4	4	24	3373.00	2802.00
12 Ways 3 Phase DB	4	4	36	4982.00	3807.00

2.TPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/ RCD	No.of outgoing ways	Higher End (Each)
4 Ways 3 Phase DB	4	4	12	2654.00
6 Ways 3 Phase DB	4	4	18	3257.00
8 Ways 3 Phase DB	4	4	24	3892.00
12 Ways 3 Phase DB	4	4	36	5933.00

3.INDUSTRIAL TYPE TPMCB DB WITH IP 54 PROTECTION

Description	No. of ways incomer MCB/Isolator	No.of ways incomer ELCB/RCD	No.of outgoing ways	Higher End (Each)
4 Ways 3 Phase DB	4	4	12	6442.00
6 Ways 3 Phase DB	4	4	18	7754.00
8 Ways 3 Phase DB	4	4	24	8484.00
12 Ways 3 Phase DB	4	4	36	11712.00

XIX 7 SEGMENTS (3 TIER) 3 PHASE DISTRIBUTION BOARD WITH MCB

4 Way/6 way/8 way/12 Way TPMCB sheet steel distribution boards Flush type/Surface type fitted with Bus bars and Neutral links with single /three phase MCB out goings and separate 4 way provision for accommodating one No. 4 pole incoming MCB /Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB/RCD (Totally 8 ways in one segment)(3 x 4 ways in each segment) and separate provision for MCB /Isolator)(Totally 12 Nos.) for sub incomers in 3 segments with label holder and provisions for taking up cable for size not less than 35 sq.mm

Vertical TPN Distribution Boards (with MCCB Incomer); Double Door; IP43, as per IS 8623 III; Impact resistance IK09; Frame MCCB Incomer & Single Phase/Three Phase MCBs as Outgoing (for power loads exceeding 100A)	Higher End	Lower End
4 Way, MCCB + 12 Modules	Each 9135.00	16920.00
6 Way, MCCB + 18 Modules	Each 10550.00	18430.00
8 Way, MCCB + 24 Modules	Each 11500.00	19670.00
12 Way, MCCB + 36 Modules	Each 15320.00	20850.00
16 Way, MCCB + 48 Modules	Each 18090.00	23480.00

2.TPMCB DB WITH METAL /ACRYLIC DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/RCD	No.of Sub incomers	No. of out going ways	Higher End (Each)
					Rate in Rupees
4 Ways 3 Phase DB	4	4	12	12	5363.00
6 Ways 3 Phase DB	4	4	12	18	6060.00
8 Ways 3 Phase DB	4	4	12	24	6759.00
12 Ways 3 Phase DB	4	4	12	36	8610.00

XX SINGLE PHASE DISTRIBUTION BOARD WITH MCBs

4 way/8 way/12 way Vertical SPMCB sheet steel distribution boards Flush type/Surface type fitted with Bus bars and Neutral links with single phase MCB out goings and separate 2 way provision for accommodating one No. 2 pole incoming MCB /Isolator and another separate 2 way provision for accommodating one No, 2 pole ELCB/RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1. SPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/ RCD	No.of outgoing ways	Higher End (Each)	Lower End (Each)
4 Ways single Phase DB	2	2	2	897.00	586.00
8 Ways single Phase DB	2	2	6	1123.00	801.00
12 Ways single Phase DB	2	2	10	1352.00	1034.00

2. SPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/RCD	No.of outgoing ways	Higher End (Each)	Lower End (Each)
4 Ways single Phase DB	2	2	2	1059.00	-
8 Ways single Phase DB	2	2	6	1249.00	-
12 Ways single Phase DB	2	2	10	1515.00	-

3.INDUSTRIAL TYPE SPMCB DB WITH IP 54 PROTECTION.

Description	No. of ways incomer MCB/Isolator	No. of ways incomer ELCB/RCD	No.of outgoing ways	Higher End (Each)	
4 Ways single Phase DB	2	2	2	2706.00	
8 Ways single Phase DB	2	2	6	3171.00	
12 Ways single Phase DB	2	2	10	3655.00	

III (H) RATES FOR CONVEYANCE

CONVEYANCE

1) Rates for Conveyance of C./G./D.I. Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway	Loading into carts or lorries/ Tonne	Unloading from carts or lorries & stacking/ Tonne	Transport charges up to 8km or part thereof/ Tonne	Total/ Tonne
	2	3	4	5	6
1	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
Up to 125 mm	338.00	222.07	222.07	183.70	965.84
Over 125 mm up to 200 mm	463.06	296.95	296.95	196.21	1253.16
Over 200 mm up to 350 mm	568.22	392.83	392.83	199.76	1553.65
Over 350 mm up to 500 mm	710.79	465.23	465.23	224.73	1865.98
Over 500 mm up to 700 mm	858.13	537.78	537.78	247.83	2181.53
Above 700mm	965.69	640.63	640.63	267.52	2514.46

For every 1 KM or part thereof	Rate per Tonne in Rupees	
	up to 500 mm	Above 500 mm
Beyond 8 KM to 25 KM	14.20	16.00
Above 25 KM to 50 KM	10.32	12.13
Above 50 KM to 80 KM	9.04	10.77
Above 80 KM to 125 KM	6.78	8.97
Above 125 KM to 200 KM	6.78	6.78
Above 200 KM	4.45	4.45

NOTE:

- 1) For lorry and cart consignments of capacity one Tonne and below, double the rates may be allowed, when the total quantity to be transported is within 1.00 M.T.
- 2) For Lorry consignments from 1 to 2 Tonnes, the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
- 3) For Lorry Consignments from 2 to 5 Tonnes, the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
- 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
- 5) For the conveyance of E.R.W.M.S. seamless pipes and specials up to 350mm dia, the rates of C.I. Pipes of respective dia available in the Schedule of rates may be adopted.
- 6) An extra rate of Rs. 36.85 per Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

2) Rates for Conveyance of M.S. Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway wagons/Tonne	Loading into carts or lorries/	Unloading from carts or lorries & stacking/	Transport charges up to 8km or part thereof/	Total/
		Tonne	Tonne	Tonne	Tonne
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
Up to 350 mm	1276.70	883.87	883.87	456.62	3501.06
Over 350 mm up to 500 mm	1604.07	1047.59	1047.59	506.56	4205.81
Over 500 mm up to 700 mm	1936.09	1201.82	1201.82	560.05	4899.79
Above 700mm	2174.62	1449.77	1449.77	606.38	5680.53

For every 1 KM or part thereof	Rate per Tonne in Rupees	
	up to 500 mm	Above 500 mm
Beyond 8 KM to 25 KM	32.06	35.62
Above 25 KM to 50 KM	22.96	27.62
Above 50 KM to 80 KM	19.81	24.84
Above 80 KM to 125 KM	15.62	19.87
Above 125 KM to 200 KM	15.62	15.62
Above 200 KM	11.04	11.04

NOTE:

- 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1.00 M.T.
- 2) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
- 3) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
- 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
- 5) An extra rate of Rs 36.85 per Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

3) Rates for Conveyance of R.C.C. /P.S.C/B.W.S.C. Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway wagons/	Loading into carts or lorries/	Unloading from carts or lorries & stacking/	Transport charges up to 8km or part thereof/	Total/
	Tonne	Tonne	Tonne	Tonne	Tonne
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
150 mm to 200 mm	261.86	201.05	201.05	210.41	874.37
Over 200 mm up to 350 mm	324.91	257.23	257.23	221.12	1060.49
Over 350 mm up to 500 mm	406.81	317.96	317.96	230.09	1272.81
Over 500 mm up to 700 mm	507.35	374.13	374.13	260.34	1515.95
Above 700mm	551.85	416.16	416.16	281.83	1666.01

For every 1 KM or part thereof	Rate per Tonne in Rupees	
	up to 500 mm	Above 500 mm
Beyond 8 KM to 25 KM	12.19	16.33
Above 25 KM to 50 KM	8.19	12.39
Above 50 KM to 80 KM	6.84	11.23
Above 80 KM to 125 KM	6.84	8.97
Above 125 KM to 200 KM	6.84	6.84
Above 200 KM	4.52	4.52

NOTE:

1) For lorry and cart consignments of capacity 1 Tonne and below, double the rates may be allowed, when the total quantity to be transported is within 1 M.T.

2) For Lorry consignments up to 5 MT (i.e.) above 1 MT Load, the rates admissible for 5 Tonnes may be allowed.

4) Rates for Conveyance of A.C. Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway wagons/Tonne	Loading into carts or lorries/ Tonne	Unloading from carts or lorries & stacking/ Tonne	Transport charges up to 8km or part thereof/ Tonne	Total/ Tonne
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
Up to 125 mm	173.00	154.24	154.24	321.00	802.47
Over 125 mm up to 200 mm	236.07	163.65	163.65	337.06	900.44
Over 200 mm up to 250 mm	268.90	201.05	201.05	383.46	1054.46
For 300 mm	289.91	210.40	210.40	394.16	1104.87
For 350 mm	289.91	233.81	233.81	399.53	1157.06
For 400 mm	301.58	259.54	259.54	426.30	1246.95
For 450 mm	334.28	289.91	289.91	451.27	1365.36
For 500 mm	355.43	320.28	320.28	465.46	1461.45
For 600 mm	390.44	367.09	367.09	499.40	1624.03
For 700 mm	406.81	376.46	376.46	501.21	1660.93

For every 1 KM or part thereof	Rate per Tonne in Rupees	
	up to 500 mm	Above 500 mm
Beyond 8 KM to 25 KM	24.51	28.65
Above 25 KM to 50 KM	14.45	16.58
Above 50 KM to 80 KM	13.49	15.75
Above 80 KM to 125 KM	11.17	13.49
Above 125 KM to 200 KM	8.97	11.17
Above 200 KM	6.84	8.97

NOTE:

- 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
- 2) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
- 3) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
- 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
- 5) For the conveyance of E.R.W.M.S. seamless pipes and specials up to 350mm dia, the rates of C.I. Pipes of respective dia available in the Schedule of Rates may be adopted.
- 6) An extra rate of Rs. 36.80/- Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries

5) Rates for Conveyance of PVC/ HDPE/ GRP Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway wagons/	Loading into carts or lorries/	Unloading from carts or lorries & stacking/	Transport charges up to 8km or part thereof/	Total/
	Tonne	Tonne	Tonne	Tonne	Tonne
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
50mm to 110mm OD	224.40	196.42	196.42	535.15	1152.38
125mm to 200mm OD	289.91	198.66	198.66	538.64	1225.86
Over 200mm to 315mm OD	294.62	261.86	261.86	579.67	1398.01
Over 315mm OD	299.26	268.82	268.82	629.62	1466.51

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	46.20
Above 25 KM to 50 KM	30.84
Above 50 KM to 80 KM	27.03
Above 80 KM to 125 KM	20.19
Above 125 KM to 200 KM	15.67
Above 200 KM	11.17

NOTE:

- 1) For departmentally loading of PVC pipes and Specials (excluding transport charges) Up to 110 mm dia Rs. 3.50 each length (6 m)
- 2) For departmentally unloading of PVC pipes and Specials Up to 110 mm dia Rs. 3.50 each length (6 m)
- 3) a. For departmentally loading for remaining sizes of pipes Rs. 196.20 per 1 MT
- b. For departmentally unloading for remaining sizes of pipes Rs. 196.20 per 1 MT
- 4) An extra rate of Rs. 34.90 / Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.
- 5) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
- 6) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
- 7) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.

6) Rates for Conveyance of SW Pipes and Specials

Size	Unloading from Railway wagons or loading into Railway wagons/	Loading into carts or lorries/	Unloading from carts or lorries & stacking/	Transport charges up to 8km or part thereof/	
	Tonne	Tonne	Tonne	Tonne	
					Total/
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
100 to 200 mm	324.93	212.72	212.72	292.48	1042.85
Over 200 to 350 mm	411.53	273.53	273.53	315.65	1274.24
Over 350 mm to 500 mm	516.69	329.63	329.63	342.42	1518.37

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	20.40
Above 25 KM to 50 KM	12.39
Above 50 KM to 80 KM	13.55
Above 80 KM to 125 KM	8.97
Above 125 KM to 200 KM	6.84
Above 200 KM	4.52

NOTE:

- 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
- 2) An extra rate of Rs. 34.38.90/ Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

7) Rates for Conveyance of Pig lead and Yarn

Size	Unloading from Railway wagons or loading into Railway wagons/	Loading into carts or lorries/	Unloading from carts or lorries & stacking/	Transport charges up to 8km or part thereof/	
	Tonne	Tonne	Tonne	Tonne	
					Total/
					Tonne
1	2	3	4	5	6
	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
Pig lead / Yarn	112.12	95.82	95.82	106.98	410.73

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	12.20
Above 25 KM to 50 KM	10.32
Above 50 KM to 80 KM	9.04
Above 80 KM to 125 KM	6.84
Above 125 KM to 200 KM	6.84
Above 200 KM	4.52

Note:- The above rates are basic rates only and GST extra applicable as per GO.

8 a) Rates for Conveyance of Materials by Road in Hills

Sl.No Distance in Kilometre		Rate for 2022-23 in Rupees					
		Cement and Steel (One metric tonne)	Limestone, Laterite, Brickjelly, Wood work, Pond Ash (wet/dry) , stone dust (One Cubic Metre)	Rough Stone, Bond Stone, Cut Stone, Broken Stone jelly, Sand, Gravel, Surki, Earth, Crushed stone sand (One Cubic Metre)	Third Class Country Bricks (Kiln Burnt) (1000 Nos.)	Mangalore tiles (1000 Nos.) Machine Pressed Tiles (2000 Nos.) Hydraulically pressed Mosaic Flooring Tiles (1500 Nos.)	Bricks II class Chamber burnt Bricks (Table Moulded/Ground Moulded) , Fly Ash Bricks (1000 Nos.)
1	2	3	4	5	6	7	8
1	Co- efficient	1.00	1.10	1.60	1.35	1.80	2.25
2	Add for every extra 1 Km and part thereof.....						
a	0 to 10 kms	14.32	15.72	22.9	19.32	25.76	32.18
b	10 to 20 kms	12.26	13.46	19.58	16.54	22.06	27.56
c	20 to 40 kms	10.54	11.60	16.86	14.20	18.98	23.70
d	40 to 80 kms	9.08	10.02	15.82	12.26	16.34	20.46
e	Above 80 kms	8.28	9.12	13.26	11.22	14.92	18.66

Note

1	The above rates do not include stacking charges [as per Circular Memo No.230 Wks.IV(2)/62-3 dated 10.06.1962 of Chief Engineer (General/ PWD)]
2	For Conveyance of Materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.
3	For Sandy and Slushy soil tracks, add 50% extra over the above rates excluding loading and unloading charges.
4	The quantity for Payment towards conveyance of earth in column (5) is for the pit measured quantity at the site of excavation only.
5	For conveyance of laterite, broken stone jelly, etc., through lorries, the rates provided are for the volume with voids.
6	For all materials which finds place in column 3,4,5,6,7 & 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of Materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
7	The above rates are basic rates only and GST extra applicable as per GO

8 b) Rates for Conveyance of Materials by Road in plains

Sl.No	Distance in Kilometre	Rate for 2022-23 in Rupees					
		Cement and Steel (One metric tonne)	Limestone, Laterite, Brickjelly, wood work, Pond Ash (wet /dry) Stone Dust (One Cubic Metre)	Rough Stone, Bond stone, Cut Stone, Broken Stone jelly, Sand, Gravel, Surki, Earth, Crushed stone sand (One Cubic Metre)	Third Class Country Bricks(Kiln Burnt) (1000 Nos.)	Mangalore Tiles (1000 Nos.) Machine Pressed Tiles(2000 Nos.) Hydraulically Pressed Mosaic Flooring Tiles (1500 Nos.)	Bricks II class Chamber burnt Bricks(Table Moulded/ Ground Moulded), Fly Ash Bricks (1000 Nos.)
1	2	3	4	5	6	7	8
1	Co efficient	1.00	1.10	1.60	1.35	1.80	2.25
2	Add for every extra 1Km and part there of						
a	0 to 10 kms	7.16	7.86	11.45	9.66	12.88	16.09
b	10 to 20 kms	6.13	6.73	9.79	8.27	11.03	13.78
c	20 to 40 kms	5.27	5.80	8.43	7.10	9.49	11.85
d	40 to 80 kms	4.54	5.01	7.91	6.13	8.17	10.23
e	Above 80kms	4.14	4.56	6.63	5.61	7.46	9.33
3	Loading Charges	135.50	64.65	44.25	63.60	63.60	63.60
4	Unloading Charges	135.50	64.65	44.25	63.60	63.60	63.60
5	Add above extra for inter state works	27.25	29.90	43.75	36.75	49.15	61.70

Note:

1	The above rates do not include stacking charges [as per Circular Memo No.230 Wks.IV(2)/62-3 dated 10.6.1962 of Chief Engineer (General/ PWD)]
2	For Conveyance of Materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.
3	For Sandy and Slushy soil tracks, add 50% extra over the above rates excluding loading and unloading charges.
4	The quantity for Payment towards conveyance of earth in column (5) is for the pit measured quantity at the site of excavation only.
5	For conveyance of Lateriate, Broken stone jelly, etc. through lorries, the rates provided are for the volume with voids.
6	For all materails which finds place in column 3,4,5,6,7 & 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
7	The above rates are basic rates only and GST extra applicable as per GO

9) Rates for Conveyance of materials by Head load					
Sl.No	Description of material	Unit	Rate for 2022-23 in Rupees		
			LEAD		LIFT
			Above 10m and upto 100m	Add extra for every additional 100m or part thereof	Add extra for every 1m height or part thereof for more than 2m lift
1	2	3	4	5	6
1	Rough Stone, Broken Stone Jelly, Cut Stone, RCC Slab, Sand - Cement Block, Wooden Scantling, Wooden plank	cu.m	120.95	50.20	13.00
2	Lime, Lime Stone, Laterite, Brick Jelly, Earth, Sand, Gravel, Surki, Pond Ash (wet/dry), Crushed Stone Sand, Stone Dust	cu.m	64.25	50.20	9.75
3	a) Mangalore Tiles	1000 Nos.	131.05	65.85	16.50
	b) Machine Pressed Tiles	2000 Nos.	131.05	65.85	16.50
	c) Hydraulic Pressed Mosaic Flooring Tiles	1500 Nos.	131.05	65.85	16.50
	d) Terrace Bricks, Flat Tiles and Pan Tiles	2500 Nos.	131.05	65.85	16.50
	e) Bricks	1000 Nos.	131.05	65.85	16.50
4	Cement, A.C. Sheet, Bitumen, Asphalt, Tar	M.T	119.40	65.85	13.00
5	Steel	M.T	200.75	80.70	16.50
Note:					
1	Fraction of 100 metres to be rounded off to the nearest 100 metres				
2	The rates indicated in the table shall be applicable only to inaccessible places (i.e) the places Wherever the Bullock Carts cannot move [Chief Engineer (General/ PWD) Memo No.CTO(A) / 38153 / 89 / dated 03.02.1989]				
3	For an initial lead of 10m and initial lift of 2m, no charge towards head load is allowable.				
4	The above rates are basic rates only and GST extra applicable as per GO				

IV (A) RATES FOR WORKS

INFILTRATION WORKS

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
1	Earthwork excavation above water level in light or sandy or clayey soils for manhole wells, infiltration wells, suction wells etc. including levelling the site with an initial lead of 10 metres.		
	First depth of 2 metres	One Cubic metre	86.90
	Second depth of 2 metres	One Cubic metre	137.50
	Third depth of 2 metres	One Cubic metre	199.10
	Fourth depth of 2 metres	One Cubic metre	277.20
2	Erection of Ring well below water level including all incidental charges using special tools and plants such as air compressor helmet etc. complete and including bailing out water.		
a.	For 0.90 metre dia Ring well (internal)		
	First depth of 2 metres	One metre	704.00
	Second depth of 2 metres	One metre	1296.90
	Third depth of 2 metres	One metre	2725.80
	Fourth depth of 2 metres	One metre	5442.80
	Fifth depth of 2 metres	One metre	10717.30
	Sixth depth of 2 metres	One metre	21451.10
b.	For 1.2 metre dia Ring well (internal)		
	First depth of 2 metres	One metre	782.10
	Second depth of 2 metres	One metre	1563.10
	Third depth of 2 metres	One metre	3116.30
	Fourth depth of 2 metres	One metre	5838.80
	Fifth depth of 2 metres	One metre	10836.10
	Sixth depth of 2 metres	One metre	21648.00
c.	For 1.50 metre dia Ring well (internal)		
	First depth of 2 metres	One metre	904.20
	Second depth of 2 metres	One metre	1794.10
	Third depth of 2 metres	One metre	3551.90
	Fourth depth of 2 metres	One metre	7074.10
	Fifth depth of 2 metres	One metre	14127.30
	Sixth depth of 2 metres	One metre	28134.70

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
3	Sinking well below water level including all incidental charges using special tools and plants such as air compressor, helmet etc., complete and including baling out water.			
a.	For 1.0 metre dia (internal)			
	First depth of 2 metres	One metre	1029.00	1484.00
	Second depth of 2 metres	One metre	1730.00	2717.00
	Third depth of 2 metres	One metre	3458.00	5430.00
	Fourth depth of 2 metres	One metre	6826.00	10842.00
	Fifth depth of 2 metres	One metre	12994.00	20359.00
	Sixth depth of 2 metres	One metre	24398.00	38104.00
	Seventh depth of 2 metres	One metre	35798.00	51797.00
	Eighth depth of 2 metres	One metre	47203.00	65487.00
	Nineth depth of 2 metres	One metre	58599.00	79174.00
	Tenth depth of 2 metres	One metre	70003.00	92866.00
b.	For 1.25 metre dia (internal)			
	First depth of 2 metres	One metre	1341.00	2034.00
	Second depth of 2 metres	One metre	2688.00	4074.00
	Third depth of 2 metres	One metre	5365.00	8240.00
	Fourth depth of 2 metres	One metre	9617.00	14810.00
	Fifth depth of 2 metres	One metre	17001.00	26276.00
	Sixth depth of 2 metres	One metre	30699.00	47567.00
	Seventh depth of 2 metres	One metre	44386.00	68869.00
	Eighth depth of 2 metres	One metre	58080.00	90163.00
	Nineth depth of 2 metres	One metre	71782.00	111463.00
	Tenth depth of 2 metres	One metre	85471.00	132761.00
c.	For 2.0 metre dia (internal)			
	First depth of 2 metres	One metre	2087.00	3354.00
	Second depth of 2 metres	One metre	4160.00	6710.00
	Third depth of 2 metres	One metre	8303.00	13397.00

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
	Fourth depth of 2 metres	One metre	13273.00	24554.00
	Fifth depth of 2 metres	One metre	25945.00	44651.00
	Sixth depth of 2 metres	One metre	51877.00	83413.00
	Seventh depth of 2 metres	One metre	77804.00	122212.00
	Eighth depth of 2 metres	One metre	103734.00	160994.00
	Nineth depth of 2 metres	One metre	129668.00	199773.00
	Tenth depth of 2 metres	One metre	155596.00	238552.00
d.	For 2.5 metre dia (internal)			
	First depth of 2 metres	One metre	2630.00	4377.00
	Second depth of 2 metres	One metre	5471.00	8606.00
	Third depth of 2 metres	One metre	10938.00	17144.00
	Fourth depth of 2 metres	One metre	20371.00	31859.00
	Fifth depth of 2 metres	One metre	37927.00	58918.00
	Sixth depth of 2 metres	One metre	73245.00	110332.00
	Seventh depth of 2 metres	One metre	108556.00	161741.00
	Eighth depth of 2 metres	One metre	143871.00	213151.00
	Nineth depth of 2 metres	One metre	179181.00	264559.00
	Tenth depth of 2 metres	One metre	214502.00	315968.00
e.	For 3.00 metre dia (internal)			
	First depth of 2 metres	One metre	3399.00	5922.00
	Second depth of 2 metres	One metre	6740.00	11516.00
	Third depth of 2 metres	One metre	13463.00	23041.00
	Fourth depth of 2 metres	One metre	25985.00	43272.00
	Fifth depth of 2 metres	One metre	48565.00	80805.00
	Sixth depth of 2 metres	One metre	92050.00	140889.00
	Seventh depth of 2 metres	One metre	135534.00	200893.00
	Eighth depth of 2 metres	One metre	179016.00	260941.00
	Nineth depth of 2 metres	One metre	222497.00	320994.00
	Tenth depth of 2 metres	One metre	265984.00	381048.00

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
f.	For 3.50 metre dia (internal)			
	First depth of 2 metres	One metre	4324.00	6940.00
	Second depth of 2 metres	One metre	8412.00	13618.00
	Third depth of 2 metres	One metre	16785.00	27174.00
	Fourth depth of 2 metres	One metre	31429.00	50936.00
	Fifth depth of 2 metres	One metre	58718.00	96846.00
	Sixth depth of 2 metres	One metre	111254.00	179774.00
	Seventh depth of 2 metres	One metre	163785.00	262706.00
	Eighth depth of 2 metres	One metre	216325.00	345630.00
	Nineth depth of 2 metres	One metre	268858.00	428559.00
	Tenth depth of 2 metres	One metre	321396.00	511491.00
g.	For 4.00 metre dia (internal)			
	First depth of 2 metres	One metre	4945.00	8325.00
	Second depth of 2 metres	One metre	9521.00	15937.00
	Third depth of 2 metres	One metre	18974.00	31846.00
	Fourth depth of 2 metres	One metre	35636.00	59667.00
	Fifth depth of 2 metres	One metre	66648.00	111273.00
	Sixth depth of 2 metres	One metre	126361.00	210619.00
	Seventh depth of 2 metres	One metre	186074.00	309961.00
	Eighth depth of 2 metres	One metre	245784.00	409314.00
	Nineth depth of 2 metres	One metre	305536.00	507977.00
	Tenth depth of 2 metres	One metre	365214.00	600329.00
h.	For 4.50 metre dia (internal)			
	First depth of 2 metres	One metre	5904.00	9956.00
	Second depth of 2 metres	One metre	11578.00	19803.00
	Third depth of 2 metres	One metre	23241.00	39523.00
	Fourth depth of 2 metres	One metre	40421.00	74118.00
	Fifth depth of 2 metres	One metre	70063.00	138597.00
	Sixth depth of 2 metres	One metre	130309.00	230941.00
	Seventh depth of 2 metres	One metre	190759.00	323285.00

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
	Eighth depth of 2 metres	One metre	251115.00	415631.00
	Nineth depth of 2 metres	One metre	311458.00	508663.00
	Tenth depth of 2 metres	One metre	371808.00	608011.00
i.	For 5.00 metre dia (internal)			
	First depth of 2 metres	One metre	7322.00	12350.00
	Second depth of 2 metres	One metre	14289.00	22920.00
	Third depth of 2 metres	One metre	28425.00	45766.00
	Fourth depth of 2 metres	One metre	53338.00	89624.00
	Fifth depth of 2 metres	One metre	96311.00	167481.00
	Sixth depth of 2 metres	One metre	188333.00	317338.00
	Seventh depth of 2 metres	One metre	280354.00	467196.00
	Eighth depth of 2 metres	One metre	372371.00	617056.00
	Nineth depth of 2 metres	One metre	464398.00	766917.00
	Tenth depth of 2 metres	One metre	556423.00	916777.00
j.	For 6.00 metre dia (internal)			
	First depth of 2 metres	One metre	10525.00	17212.00
	Second depth of 2 metres	One metre	20403.00	33287.00
	Third depth of 2 metres	One metre	38759.00	66539.00
	Fourth depth of 2 metres	One metre	76382.00	124676.00
	Fifth depth of 2 metres	One metre	142768.00	232557.00
	Sixth depth of 2 metres	One metre	270626.00	440015.00
	Seventh depth of 2 metres	One metre	398505.00	647471.00
	Eighth depth of 2 metres	One metre	526367.00	854928.00
	Nineth depth of 2 metres	One metre	654235.00	1062380.00
	Tenth depth of 2 metres	One metre	782098.00	1269837.00
NOTE:	In case the water table is met with at depth of 2.00 m and below, from the bed level, an extra percentage as under may be allowed over the existing rates for items 3(a) to 3 (j) for the extra lift involved.			
	Where water table is 2.00m, below bed level and upto 4.00 m		15% extra	
	Where water table is beyond 4.00m and upto 6.00m		20% extra	

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
4a.	Earthwork excavation above water level in light or sandy soil for infiltration gallery, syphon or connecting pipeline and connected works including refilling complete.		
	First depth of 2 m	One cubic metre	100.10
	Second depth of 2 m	One cubic metre	143.00
	Third depth of 2 m	One cubic metre	209.00
	Fourth depth of 2 m	One cubic metre	280.50
b.	Earthwork excavation below water level in light or sandy soil for infiltration gallery, syphon or connecting pipe line and connected works including shoring and strutting and charges for special tools and plants for bailing/ pumping etc., such as air compressor and helmet.		
	First depth of 2 m	One cubic metre	1874.40
	Second depth of 2 m	One cubic metre	2648.80
	Third depth of 2 m	One cubic metre	3974.30
	Fourth depth of 2 m	One cubic metre	5767.30
c	Earthwork excavation below water level in clayey soil for infiltration gallery for laying syphon pipe line or connecting pipe and connected works, shoring and strutting and charges for special tools and plants for bailing/pumping etc., such as air compressor and helmet.		
	First depth of 2 m	One cubic metre	3116.30
	Second depth of 2 m	One cubic metre	4331.80
	Third depth of 2 m	One cubic metre	6766.10
	Fourth depth of 2 m	One cubic metre	10125.50

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
d	Earthwork excavation below water level in soft disintegrated rock for infiltration gallery, laying syphone pipe line/ connecting pipes etc., including shoring, strutting and charges for special tools and plants.		
	First depth of 2 m	One cubic metre	2178.00
	Second depth of 2 m	One cubic metre	2904.00
	Third depth of 2 m	One cubic metre	4523.20
	Fourth depth of 2 m	One cubic metre	7819.90
NOTE (i)	For sinking wells in soil mixed with pebbles boulder of size 80 mm to 600 mm mixed with clay and silt below water level, including bailing/ pumping water and charges for special tools and plants etc., complete, an extra 20% (Twenty percentage) over the rates for items 2,3b,3c & 3d in the schedule of rates is allowed.		
ii	In case the water table is met with at a depth of 2.00m and below from the bed level, an extra percentage as under may be allowed over the existing rates for items 4(b), 4(c) and 4(d) above the extra lift involved		
	Where water table is 2.00m below bed level and upto 4.00m.	10% extra	
	Where water table is beyond 4.00m and upto 6.00m	15% extra	
	Pipe laying works		
5a	Laying stoneware pipes and open joint with fillet in the infiltration gallery excluding cost of pipes but including charges of special tools and plant etc., such as air compressor and helmet.		
I	200 mm dia stoneware pipes	One metre	299.20
ii	225 mm dia stoneware pipes	One metre	367.40

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
iii	300 mm dia stoneware pipes	One metre	430.10
iv	350 mm dia stoneware pipes	One metre	498.30
v	375 mm dia stoneware pipes	One metre	618.20
vi	450 mm dia stoneware pipes	One metre	636.90
b	Laying and jointing PVC slotted pipes in the infiltration gallery excluding cost of pipes but including charges for special tools and plants etc., complete such as air compressor and helmet.		
	200 mm dia (OD) PVC pipes	One metre	221.10
	315 mm dia (OD) PVC pipes	One metre	339.90
c	Refilling gallery trench and filter basins with clean excavated sand free from silt and clay	One cubic metre	23.10
6	Labour charges for laying filter media below water level in all depths as per specification for infiltration gallery works including screening cleaning and charges for special tools and plant etc., complete such as air compressor, helmets, sheet piles		
a	Granite metal 6mm to 40mm	One cubic metre	309.10
b	Coarse sand passing through a sieve of four meshes to 2.5 centimetres and retained in a sieve of ten meshes to 2.5 centimetres and filling it under water	One cubic metre	1535.60
c	Coarse sand passing through a sieve of ten meshes to 2.5 centimetres and retained in a sieve of 200 meshes to 2.5 centimetres and filling it under water	One cubic metre	583.00
d.	Cost of coarse sand D-10 and D-20 for laying gallery media for a lead not exceeding 200m from the source to the place of stacking including stacking etc., complete.	One cubic metre	396.00
e.	Cost of hard granite metal of size (B.S.S.) 6 mm to 12 mm filter media (machine crushed)	One cubic metre	2086.70

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	(I) NOTE: For 6(a),(b) and (c):		
	The above rates are labour charges for laying the filter media including screening, cleaning etc., for a lead not exceeding 200 metres from the place of stacking to the point of laying the media. The cost of materials and the lead from the source to the place of stacking are to be paid for separately.		
	(ii) NOTE: FOR 6(d):		
	The above rates are applicable to cases where the screened materials is not less than 10% of the collected material. In specific cases where the screened material is less than 10% of the collected material, prior orders of the Superintending Engineer, TWAD Board are to be obtained in specific cases for increased rate of labour required.		
	(iii) NOTE: FOR 6(e)		
	The above rates are applicable to cases where the screened materials is not less than 20% of the collected materials. In case where the screened materials is less than 20% of the collected material, prior orders of the Superintending Engineer, TWAD are to be obtained in specific cases for increased rate of labour required.		

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
7a	Lowering of C.I Pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers.		
	For depth upto 2m		
	80 mm dia C.I Pipes and Specials	One metre	14.22
	100 mm dia C.I Pipes and Specials	One metre	15.84
	125 mm dia C.I Pipes and Specials	One metre	20.95
	150 mm dia C.I Pipes and Specials	One metre	28.91
	200 mm dia C.I Pipes and Specials	One metre	34.92
	250 mm dia C.I Pipes and Specials	One metre	39.98
	300 mm dia C.I Pipes and Specials	One metre	43.02
	350 mm dia C.I pipes and specials	One metre	54.57
	400 mm dia C.I pipes and specials	One metre	64.39
	450 mm dia C.I pipes and specials	One metre	74.40
	500 mm dia C.I pipes and specials	One metre	81.89
	600 mm dia C.I pipes and specials	One metre	100.34
	700 mm dia C.I pipes and specials	One metre	129.00
	750 mm dia C.I pipes and specials	One metre	146.31
	800 mm dia C.I pipes and specials	One metre	166.65
	900 mm dia C.I pipes and specials	One metre	197.65
7a(i)	Lowering of D.I Pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers.		
	For depth upto 2m		
	80 mm dia D.I Pipes and Specials	One metre	15.10
	100 mm dia D.I Pipes and Specials	One metre	16.82
	125 mm dia D.I Pipes and Specials	One metre	21.30
	150 mm dia D.I Pipes and Specials	One metre	28.91
	200 mm dia D.I Pipes and Specials	One metre	35.53
	250 mm dia D.I Pipes and Specials	One metre	41.39
	300 mm dia D.I Pipes and Specials	One metre	45.73
	350 mm dia D.I pipes and specials	One metre	56.86

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	400 mm dia D.I pipes and specials	One metre	64.39
	450 mm dia D.I pipes and specials	One metre	77.66
	500 mm dia D.I pipes and specials	One metre	82.11
	600 mm dia D.I pipes and specials	One metre	100.46
	700 mm dia D.I pipes and specials	One metre	124.33
	750 mm dia D.I pipes and specials	One metre	139.61
	800 mm dia D.I pipes and specials	One metre	168.07
	900 mm dia D.I pipes and specials	One metre	199.23
	NOTE: i) For depth between 2m to 4m 10% over basic rates and for 4m to 6m 20% over basic rate allowed		
	ii) For work of laying CI connecting pipe/ syphon basic pipe below water, double the above rates shall be allowed.		
	iii) For laying pipes in sewer line except pumping main 10% more is allowed.		
b	Lowering GI pipes and specials in the trenches and laying to proper grade and alignment, jointing with GI Specials and as directed by the TWAD Officers		
	15mm to 40mm dia	One metre	19.11
	50mm to 65mm dia	One metre	19.11
	80mm to 100mm dia	One metre	25.71
	125mm to 150mm dia	One metre	25.71
c	Disjointing C.I. Tyton S/S pipes and specials, and lifting C.I. Pipes from the trenches and stacking at places shown by the departmental Officers.		
	For depth upto 2 m		
	80 mm dia C.I. Pipes and specials	One metre	16.50
	100mm dia C.I. Pipes and specials	One metre	18.70
	125 mm dia C.I. Pipes and specials	One metre	22.00
	150 mm dia C.I. Pipes and specials	One metre	29.70
	200 mm dia C.I. Pipes and specials	One metre	33.00
	250 mm dia C.I. Pipes and specials	One metre	51.70
	300 mm dia C.I. Pipes and specials	One metre	55.00

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	350 mm dia C.I. Pipes and specials	One metre	71.50
	400 mm dia C.I. Pipes and specials	One metre	75.90
	450 mm dia C.I. Pipes and specials	One metre	90.20
	500 mm dia C.I.pipes and specials	One metre	97.90
	600 mm dia C.I.pipes and specials	One metre	119.90
	700 mm dia C.I.pipes and specials	One metre	138.60
	800 mm dia C.I.pipes and specials	One metre	152.90
	825 mm dia C.I.pipes and specials	One metre	174.90
	900 mm dia C.I.pipes and specials	One metre	193.60
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	20%	
d.	Lowering of M.S pipes and specials into the trenches and laying to proper grade and alignment and as directed by the TWAD Officers.		
	Up to 350mm dia	One metre	45.63
	400 mm Dia	One metre	54.34
	450 mm Dia	One metre	59.87
	500 mm Dia	One metre	62.36
	600 mm Dia	One metre	76.97
	700 mm Dia	One metre	102.79
	900 mm Dia	One metre	147.08
	1000 mm Dia	One metre	190.23
	1050 mm Dia	One metre	198.63
	1100 mm Dia	One metre	205.16
	1200 mm Dia	One metre	210.76
	1400 mm Dia	One metre	322.93
	1600 mm Dia	One metre	437.50

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	20%	
8a	Jointing the C.I/ D.I - S/S pipes and specials with molten lead and Yarn including caulking the joints. (Including cost of jointing materials)		
	For depth upto 2m		
	80 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	594.74
	100 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	744.32
	125 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	960.00
	150 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1110.76
	200 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1537.31
	250 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	2089.82
	300 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	2379.03
	350 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	2961.98
	400 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	3484.45
	450 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	4476.89
	500 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	4850.79
	600 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	6151.11
	700 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	6691.74
	750 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	8372.14
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
8b	Jointing C.I/ D.I-S/S pipes and specials with rubber gaskets (tyton joint) including cost of lubricants. (including cost of jointing materials)		
	For depth upto 2m		

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	80 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	47.90
	100 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	64.60
	125 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	65.70
	150 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	68.90
	200 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	79.00
	250 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	114.60
	300 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	129.20
	350 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	143.10
	400 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	164.60
	450 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	247.80
	500 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	269.30
	600 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	360.60
	700 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	425.70
	750 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	527.30
	800 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	686.00
	900 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	1047.30
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	20%	
8c	Jointing the C.I/ D.I Double flanged pipes and specials with rubber insertion to with IS-638(1979) and M.S. bolts and nuts of IS 1364-1 (2002), including cost of jointing materials such as bolt and nuts Rubber insertion and labour charges etc.. complete.		
	For depth upto 2m		
	For works above water level		
	80 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	172.70
	100 mm dia C.I./D.I. Double flanged pipes and specials	Each Joint	294.70
	125 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	306.50
	150 mm dia C.I./D.I. Double flanged pipes and specials	Each Joint	489.30

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	200 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	551.40
	250 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	777.70
	300 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	876.60
	350 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1130.00
	400 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1701.80
	450 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1943.00
	500 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	2389.30
	600 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	3365.60
	700 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	3415.90
	750 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	3513.90
	800 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	3526.60
	900 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	4159.10
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
8d	Jointing C.I/ D.I double flanged pipes and specials with rubber insertion or any equivalent to the required specifications with M.S. bolts and nuts etc., complete including charges for special tools and plants such as air compressor and helmets and sheet piles. etc (including cost of jointing materials)		
	For depth upto 2m		
	For works below water level		
	80 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	368.40

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	100 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	548.70
	125 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	611.70
	150 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	873.80
	200 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1007.50
	250 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1376.20
	300 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1518.30
	350 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1881.40
	400 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	2585.90
	450 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	2878.20
	500 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	3380.70
	600 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	4759.80
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
8e	Jointing the C.I/ D.I-S/S pipes and specials with neat cement or cement mortar and spun yarn including caulking the joints, curing. (including cost of jointing materials)		
	For depth upto 2m		
	80mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	152.30
	100mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	157.40
	125mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	204.60
	150mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	235.80
	200mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	371.40
	250mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	440.80
	300mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	513.30

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	350mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	625.20
	400mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	715.30
	450mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	881.10
	500mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	990.40
	600mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	1228.60
	700mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	1344.80
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
9	Lowering RCC pipes and specials into the trenches and laying to proper grade and alignment		
	For depth upto 2m		
	150mm dia R.C.C. Pipes and Specials	One metre	48.40
	200mm dia R.C.C. Pipes and Specials	One metre	51.70
	250mm dia R.C.C. Pipes and Specials	One metre	64.90
	300mm dia R.C.C. Pipes and Specials	One metre	75.90
	350mm dia R.C.C. Pipes and Specials	One metre	95.70
	400mm dia R.C.C. Pipes and Specials	One metre	103.40
	450mm dia R.C.C. Pipes and Specials	One metre	119.90
	500mm dia R.C.C. Pipes and Specials	One metre	138.60
	600mm dia R.C.C. Pipes and Specials	One metre	160.60
	700mm dia R.C.C. Pipes and Specials	One metre	180.40
	750mm dia R.C.C. Pipes and Specials	One metre	188.10
	800mm dia R.C.C. Pipes and Specials	One metre	228.80
	900mm dia R.C.C. Pipes and Specials	One metre	269.50
	1000mm dia R.C.C. Pipes and Specials	One metre	311.30
	1100mm dia R.C.C. Pipes and Specials	One metre	363.00
	1200mm dia R.C.C. Pipes and Specials	One metre	403.70
	1300mm dia R.C.C. Pipes and Specials	One metre	444.40
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
i)	Each Collar joint is to be treated as one joint		

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
ii)	For laying RCC pipes in sewage lines, except pumping main, 5% more is allowed		
10a	Jointing RCC pipes with cement using necessary collars including the cost of jointing materials.		
	For depth upto 2m		
	150mm dia R.C.C. Pipes and Specials	Each Joint	265.10
	200mm dia R.C.C. Pipes and Specials	Each Joint	324.50
	250mm dia R.C.C. Pipes and Specials	Each Joint	398.20
	300mm dia R.C.C. Pipes and Specials	Each Joint	447.70
	350mm dia R.C.C. Pipes and Specials	Each Joint	480.70
	400mm dia R.C.C. Pipes and Specials	Each Joint	518.10
	450mm dia R.C.C. Pipes and Specials	Each Joint	608.30
	500mm dia R.C.C. Pipes and Specials	Each Joint	672.10
	600mm dia R.C.C. Pipes and Specials	Each Joint	799.70
	700mm dia R.C.C. Pipes and Specials	Each Joint	930.60
	750mm dia R.C.C. Pipes and Specials	Each Joint	983.40
	800mm dia R.C.C. Pipes and Specials	Each Joint	1020.80
	900mm dia R.C.C. Pipes and Specials	Each Joint	1160.50
	1000mm dia R.C.C. Pipes and Specials	Each Joint	1188.00
	1100mm dia R.C.C. Pipes and Specials	Each Joint	1300.20
	1200mm dia R.C.C. Pipes and Specials	Each Joint	1442.10
	1300mm dia R.C.C. Pipes and Specials	Each Joint	1595.00
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
	Each collar joint is to be treated as one joint only.		
10b	Jointing RCC pipes with lead and hemp yarn using steel collars including the cost of jointing materials and caulking the joints.		
	For depth upto 2m		
	150mm dia R.C.C. Pipes	Each steel collar	281.60

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	200mm dia R.C.C. Pipes	Each steel collar	352.00
	250mm dia R.C.C. Pipes	Each steel collar	418.00
	300mm dia R.C.C. Pipes	Each steel collar	482.90
	350mm dia R.C.C. Pipes	Each steel collar	548.90
	400mm dia R.C.C. Pipes	Each steel collar	570.90
	450mm dia R.C.C. Pipes	Each steel collar	715.00
	500mm dia R.C.C. Pipes	Each steel collar	799.70
	600mm dia R.C.C. Pipes	Each steel collar	955.90
	700mm dia R.C.C. Pipes	Each steel collar	1141.80
	800mm dia R.C.C. Pipes	Each steel collar	1313.40
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	
11a	Lowering AC/ GRP pipes and specials into the trench carefully, laying to proper grade and alignment, jointing of A.C/ GRP pipes with simplex joints with rubber rings or with C.I. detachable joints or with M.S. couplers.		
	For depth upto 2m		
	80mm dia AC/ GRP Pipes	One metre	24.20
	100mm dia AC/ GRP Pipes	One metre	33.00
	125mm dia AC/ GRP Pipes	One metre	48.40
	150mm dia AC/ GRP Pipes	One metre	55.00
	200mm dia AC/ GRP Pipes	One metre	73.70
	250mm dia AC/ GRP Pipes	One metre	90.20
	300mm dia AC/ GRP Pipes	One metre	114.40
	350mm dia AC/ GRP Pipes	One metre	127.60
	400mm dia AC/ GRP Pipes	One metre	147.40

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	450mm dia AC/ GRP Pipes	One metre	171.60
	500mm dia AC/ GRP Pipes	One metre	204.60
	600mm dia AC/ GRP Pipes	One metre	245.30
	700mm dia AC/ GRP Pipes	One metre	302.50
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11b (i)	Lowering PVC/ DWSC rigid pipes and specials to trench and laying to proper grade and alignment, jointing with PVC couplers with cement paste.		
	For depth upto 2m		
	Upto 40mm dia (OD) PVC pipe	One metre	11.20
	50mm to 75mm dia (OD) PVC pipe	One metre	18.90
	90mm to 110mm dia (OD) PVC pipe	One metre	19.10
	125mm to 160mm dia (OD) PVC pipe	One metre	27.00
	180mm to 250mm dia (OD) PVC pipe	One metre	35.10
	Over 250mm to 315mm dia (OD) PVC pipe	One metre	50.30
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11b (ii)	Lowering HDPE pipes and specials to trench and laying to proper grade and alignment and as directed by the TWAD Officers		
	For depth upto 2m		
	50mm to 75mm dia (OD) HDPE pipe	One metre	16.14
	90mm to 110mm dia (OD) HDPE pipe	One metre	16.14
	125mm to 160mm dia (OD) HDPE pipe	One metre	22.72
	180mm to 250mm dia (OD) HDPE pipe	One metre	29.20
	Over 250mm to 315mm dia (OD) HDPE pipe	One metre	42.38
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
11c	Lowering PSC/ BWSC pipes and specials into the trench and laying to proper grade and alignment and Jointing with rubber gaskets		
	For depth upto 2m		
	Upto 350mm diameter	One metre	127.60
	400mm diameter	One metre	149.60
	450mm diameter	One metre	174.90
	500mm diameter	One metre	204.60
	600mm diameter	One metre	248.60
	700mm diameter	One metre	278.30
	800mm diameter	One metre	302.50
	900mm diameter	One metre	330.00
	1000mm diameter	One metre	359.70
	1100mm diameter	One metre	388.30
	1200mm diameter	One metre	447.70
	1300mm diameter	One metre	497.20
	1400mm diameter	One metre	570.90
	1500mm diameter	One metre	633.60
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11d	Lowering CI collars with flange into the trench and laying to proper grade and alignment and jointing PSC pipes with 2 Nos of conical rubber rings and MS bolts and nuts excluding the cost of jointing materials.		
	For depth upto 2m		
	Upto 350mm diameter	Each collar	1362.90
	400mm diameter	Each collar	1595.00
	450mm diameter	Each collar	1827.10
	500mm diameter	Each collar	2055.90
	600mm diameter	Each collar	2506.90
	700mm diameter	Each collar	3190.00
	800mm diameter	Each collar	3427.60
	900mm diameter	Each collar	3883.00
	1000mm diameter	Each collar	4560.60
	1100mm diameter	Each collar	5021.50

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	1200mm diameter	Each collar	5707.90
	1300mm diameter	Each collar	6400.90
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11e	Testing of pipes for water supply with hydraulic testing equipment by filling with water (including cost of water) and testing to recommended pressure in convenient stretches and attending the bursts if any occurred during the test, excluding the cost of pipes but including other incidental and operational charges etc., complete for the following diameters of pipes.		
	Up to 100mm	One metre	65.00
	125mm	One metre	77.00
	150mm	One metre	86.00
	200mm	One metre	105.00
	250mm	One metre	132.00
	300mm	One metre	161.00
	350mm	One metre	190.00
	400mm	One metre	221.00
	450mm	One metre	254.00
	500mm	One metre	309.00
	600mm	One metre	369.00
	700mm	One metre	469.00
	750mm	One metre	548.00
	900mm	One metre	633.00
	1050mm	One metre	816.00
	1200mm	One metre	1026.00
12a	Cutting C.I. Pipes true to axis and filing smoothly and finishing the ends complete		
	80mm dia CI pipes	Each cutting	48.40
	100mm dia CI pipes	Each cutting	55.00
	125mm dia CI pipes	Each cutting	68.20

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	150mm dia CI pipes	Each cutting	75.90
	175mm dia CI pipes	Each cutting	90.20
	200mm dia CI pipes	Each cutting	122.10
	250mm dia CI pipes	Each cutting	155.10
	300mm dia CI pipes	Each cutting	174.90
	350mm dia CI pipes	Each cutting	221.10
	375mm dia CI pipes	Each cutting	272.80
	400mm dia CI pipes	Each cutting	286.00
	450mm dia CI pipes	Each cutting	308.00
	500mm dia CI pipes	Each cutting	341.00
	525mm dia CI pipes	Each cutting	412.50
	600mm dia CI pipes	Each cutting	420.20
	675mm dia CI pipes	Each cutting	502.70
	700mm dia CI pipes	Each cutting	530.20
	750mm dia CI pipes	Each cutting	545.60
	800mm dia CI pipes	Each cutting	573.10
	825mm dia CI pipes	Each cutting	624.80
	850mm dia CI pipes	Each cutting	655.60
	900mm dia CI pipes	Each cutting	672.10
12b	Cutting A.C. Pipes true to axis and finishing the ends complete		
	80mm dia AC pipes	Each cutting	18.70
	100mm dia AC pipes	Each cutting	22.00
	125mm dia AC pipes	Each cutting	24.20
	150mm dia AC pipes	Each cutting	29.70
	200mm dia AC pipes	Each cutting	40.70
	250mm dia AC pipes	Each cutting	64.90
	300mm dia AC pipes	Each cutting	68.20
	350mm dia AC pipes	Each cutting	81.40
	400mm dia AC pipes	Each cutting	100.10
	450mm dia AC pipes	Each cutting	114.40
	500mm dia AC pipes	Each cutting	130.90
	600mm dia AC pipes	Each cutting	149.60
	700mm dia AC pipes	Each cutting	166.10
12c	Cutting P.V.C. rigid pipes and specials true to axis and finishing the ends complete		

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	Upto 75mm dia (OD) PVC pipe	Each cutting	6.60
	90mm dia PVC pipes	Each cutting	9.90
	110mm dia PVC pipes	Each cutting	9.90
	125mm dia PVC pipes	Each cutting	9.90
	140mm dia PVC pipes	Each cutting	9.90
	160mm dia PVC pipes	Each cutting	16.50
	180mm dia PVC pipes	Each cutting	19.80
	200mm dia PVC pipes	Each cutting	19.80
	250mm dia PVC pipes	Each cutting	23.10
	315mm dia PVC pipes	Each cutting	25.30
12d.	Cutting and Threading of GI pipes		
a.i	15mm dia GI pipe, Cutting	Each	8.90
ii.	15mm dia GI pipe, Threading	Each	12.65
b.i	20mm dia GI pipe, Cutting	Each	8.90
ii.	20mm dia GI pipe, Threading	Each	12.85
c.i	25mm dia GI pipe, Cutting	Each	10.65
ii.	25mm dia GI pipe, Threading	Each	26.60
d.i	32mm dia GI pipe, Cutting	Each	12.85
ii	32mm dia GI pipe, Threading	Each	35.90
e.i	40mm dia GI pipe, Cutting	Each	17.35
ii	40mm dia GI pipe, Threading	Each	40.45
f.i	50mm dia GI pipe, Cutting	Each	22.30
ii.	50mm dia GI pipe, Threading	Each	44.90
g.i	65mm dia GI pipe, Cutting	Each	24.20
ii	65mm dia GI pipe, Threading	Each	54.30
h.i	80mm dia GI pipe, Cutting	Each	31.50
ii.	80mm dia GI pipe, Threading	Each	68.40
i.i	100mm dia GI pipe, Cutting	Each	44.90
ii.	100mm dia GI pipe, Threading	Each	90.60
j.i.	125mm dia GI pipe, Cutting	Each	48.00
j.ii.	125mm dia GI pipe, Threading	Each	96.10
13	Cutting R.C.C. Pipes true to axis and finishing the ends complete		
	150mm dia R.C.C. Pipes	Each cutting	68.20
	200mm dia R.C.C. Pipes	Each cutting	75.90
	250mm dia R.C.C. Pipes	Each cutting	97.90

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	300mm dia R.C.C. Pipes	Each cutting	127.60
	350mm dia R.C.C. Pipes	Each cutting	133.10
	400mm dia R.C.C. Pipes	Each cutting	171.60
	450mm dia R.C.C. Pipes	Each cutting	188.10
	500mm dia R.C.C. Pipes	Each cutting	210.10
	600mm dia R.C.C. Pipes	Each cutting	234.30
	650mm dia R.C.C. Pipes	Each cutting	245.30
	700mm dia R.C.C. Pipes	Each cutting	269.50
	750mm dia R.C.C. Pipes	Each cutting	278.30
	800mm dia R.C.C. Pipes	Each cutting	305.80
	900mm dia R.C.C. Pipes	Each cutting	324.50
	1000mm dia R.C.C. Pipes	Each cutting	349.80
	1100mm dia R.C.C. Pipes	Each cutting	374.00
	1200mm dia R.C.C. Pipes	Each cutting	401.50
	1300mm dia R.C.C. Pipes	Each cutting	418.00
14a	Removing the burst C.I. pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipeline with sound pipe including jointing and cost of refilling the pipeline with water for retesting the pipe line etc complete. (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers.		
	For depth upto 2m		
	80mm dia C.I. Pipes	Each	1263.90
	100mm dia C.I. Pipes	Each	1586.20
	125mm dia C.I. Pipes	Each	2072.40
	150mm dia C.I. Pipes	Each	2613.60
	200mm dia C.I. Pipes	Each	3645.40
	250mm dia C.I. Pipes	Each	5011.60
	300mm dia C.I. Pipes	Each	6376.70
	350mm dia C.I. Pipes	Each	7220.40
	400mm dia C.I. Pipes	Each	9224.60
	450mm dia C.I. Pipes	Each	10049.60
	500mm dia C.I. Pipes	Each	11276.10
	600mm dia C.I. Pipes	Each	13797.30

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	700mm dia C.I. Pipes	Each	15061.20
	750mm dia C.I. Pipes	Each	17284.30
	800mm dia C.I. Pipes	Each	19520.60
	825mm dia C.I. Pipes	Each	23150.60
	900mm dia C.I. Pipes	Each	28243.60
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
14b	Removing the burst A.C. Pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc complete (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers		
	For depth upto 2m		
	80mm dia AC. Pipes	Each	731.50
	100mm dia AC. Pipes	Each	865.70
	125mm dia AC. Pipes	Each	1089.00
	150mm dia AC. Pipes	Each	1394.80
	200mm dia AC. Pipes	Each	1958.00
	250mm dia AC. Pipes	Each	2503.60
	300mm dia AC. Pipes	Each	3118.50
	350mm dia AC. Pipes	Each	3424.30
	375mm dia AC. Pipes	Each	3853.30
	400mm dia AC. Pipes	Each	4079.90
	450mm dia AC. Pipes	Each	4166.80
	500mm dia AC. Pipes	Each	4577.10
	600mm dia AC. Pipes	Each	5327.30
	700mm dia AC. Pipes	Each	6562.60
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	15%	

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	4m to 6m	30%	
14c	Removing the burst P.V.C. Pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc., complete (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers		
	Upto 63mm dia (OD) PVC Pipes	Each	374.00
	75mm dia (OD) PVC Pipes	Each	469.70
	90mm dia (OD) PVC Pipes	Each	624.80
	110mm dia (OD) PVC Pipes	Each	759.00
	125mm dia (OD) PVC Pipes	Each	900.90
	140mm dia to 160mm dia (OD) PVC Pipes	Each	1111.00
	180mm dia to 200mm dia (OD) PVC Pipes	Each	1702.80
	250mm dia to 280mm dia (OD) PVC Pipes	Each	2075.70
	315mm dia (OD) PVC Pipes	Each	2313.30
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
14d	Removing the burst R.C.C. pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc., complete. (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers		
	For depth upto 2m		
	150mm dia RCC Pipes	Each	2031.70
	200mm dia RCC Pipes	Each	2856.70
	250mm dia RCC Pipes	Each	3550.80
	300mm dia RCC Pipes	Each	4216.30
	350mm dia RCC Pipes	Each	4991.80
	375mm dia RCC Pipes	Each	5931.20

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
	400mm dia RCC Pipes	Each	6387.70
	450mm dia RCC Pipes	Each	7141.20
	500mm dia RCC Pipes	Each	7947.50
	525mm dia RCC Pipes	Each	9045.30
	600mm dia RCC Pipes	Each	9290.60
	650mm dia RCC Pipes	Each	10366.40
	700mm dia RCC Pipes	Each	10574.30
	800mm dia RCC Pipes	Each	11669.90
	900mm dia RCC Pipes	Each	12889.80
	1000mm dia RCC Pipes	Each	14092.10
	1100mm dia RCC Pipes	Each	15353.80
	1200mm dia RCC Pipes	Each	16571.50
	1300mm dia RCC Pipes	Each	17385.50
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
	For sewerline works (Except pumping main) 5% extra over the above rate may be adopted.		
14e	Charges for fixing MS Stepped split up collar in position in the spigot and socket ends of the PSC pipe carefully and caulking the sides of the collar using hemp yarn cement and hard crete and pouring the cement slurry mixed with use of hard crete in the stepped collar including cost of materials etc. complete but excluding cost of stepped collar as directed by the TWAD Board Officers		
	Upto 1500mm dia PSC pipes	Each	13368.30
	Upto 1000mm dia PSC pipes	Each	10686.50
	Upto 800mm dia PSC pipes	Each	6231.50
	Upto 700mm dia PSC pipes	Each	6152.30
	Upto 600mm dia PSC pipes	Each	6078.60
	Upto 500mm dia PSC pipes	Each	5890.50

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
Note:	For lighting arrangements during night works due to emergency actual expenditure incurred based on need for lighting may be given extra as certified by the Executive Engineer incharge of work at site		
14f	Charges for lowering, positioning and fixing MS steps collars in AC pipe line carefully and caulking the sides of collar using hemp yarn, cement and hard crete into the stepped collar including cost of jointing materials such as cement, yarn, bolt and nuts, MS washers, RI sheet and hard crete etc. but excluding cost of step collar and as directed by TWAD Officers		
	For 500mm dia AC pipe	Each	4454.00
	For 600mm dia AC pipe	Each	4896.00
	For 700mm dia AC pipe	Each	5568.00
i)	For removing the burst pipe in the maintenance works when burst occurs and replacing it with sound pipes including the cost of refilling the trench and the removal of slushy soil etc., Complete (Pipes and special jointing materials will be supplied with in 200m lead and at the respective TWAD Board divisional stores free of cost). 2 times ordinary rate allowed for the works are done during day time since the works are done in confined reaches.		
ii)	If the works are done in odd hours (i.e) 8.00 P.M. to 8.00 A.M. of the next day, 3 times of ordinary rate is allowed since the works are done in the confined reaches.		
Slow Sand / Rapid Sand Filter Works			
15 a.i)	Labour for filling with broken stone of all sizes well washed and cleaned, to be free from impurities, including stacking and laying in bed	One cubic metre	144.10

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
ii)	Labour for filling the coarse sand passing through a sieve of 10 meshes to 2.5 cm and retained in 20 meshes to 2.5 cm well washed and cleaned to be free from impurities including stacking	One cubic metre	272.80
iii)	Labour for filling with fine sand passing through a sieve of ten meshes to 2.5cm and retained in a sieve of 40 meshes to 2.5 cm well washed and cleaned to be free from impurities including stacking	One cubic metre	24.20
15 b	Labour for scraping and removing silt only from the surface and sides of the filter basin carrying the same to a distance not exceeding 200 metres	One cubic metre	26.40
15c	Labour for removing dirty sand in layer of 25 mm uniform thickness from the slow sand filter, conveying, dropping the sand in a hopper with a lift of not exceeding 3 metres within a distance of 30 metres and delivering the washed sand in filter bed including removal and carrying the dirt from collecting chamber to a distance of upto 200 metres.	One square metre	33.00
DRAINAGE WORKS			
16	Laying and jointing with cement mortar stoneware pipes and specials in dry condition and testing with water		
	100mm diameter stoneware pipes	One metre	
	150mm diameter stoneware pipes	One metre	
	200mm diameter stoneware pipes	One metre	
	225mm diameter stoneware pipes	One metre	
	250mm diameter stoneware pipes	One metre	
	300mm diameter stoneware pipes	One metre	
	375mm diameter stoneware pipes	One metre	
	450mm diameter stoneware pipes	One metre	
	NOTE : The rates to be worked out vide standard data appended as Item 17		

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
17	Jointing HDPE Pipes and Specials by butt fusion welding / electro fusion welding joints using fusion equipment as per ISO 21307-2011 and as per IS 7634 (part-2) : 2012 including cost of hire charges for butt fusion equipment power supply arrangements etc., complete as per directed by TWAD Board Officers.		
1	50mm	Joint	86.90
2	63mm	Joint	107.80
3	75mm	Joint	128.70
4	90mm	Joint	157.30
5	110mm	Joint	189.20
6	125mm	Joint	215.60
7	140mm	Joint	242.00
8	160mm	Joint	275.00
9	180mm	Joint	316.80
10	200mm	Joint	350.90
11	225mm	Joint	397.10
12	250mm	Joint	441.10
13	280mm	Joint	491.70
14	315mm	Joint	554.40
15	355mm	Joint	623.70
16	400mm	Joint	704.00
17	450mm	Joint	790.90
18	500mm	Joint	878.90
19	560mm	Joint	1016.40
20	630mm	Joint	1161.60
18	Jointing of mechanical joint collar, nuts, gasket and fixing in position as directed by departmental officers.		
1	100mm	Joint	110.00
2	150mm	Joint	266.20
3	200mm	Joint	275.00
4	250mm	Joint	404.80
5	400mm	Joint	852.50
6	450mm	Joint	941.60
7	600mm	Joint	1725.90
19	Disjointing if GI pipes as directed by the departmental officers		
1	upto 80mm	Each	71.50
2	Above 80mm	Each	94.60

Schedule Item No.	Description	Unit	2022-23 Rate in Rupees
20	Welding of GI pipes as directed by the departmental officers for the sizes		
1	upto 80mm	One welding Joint	232.10
2	Above 80mm	One welding Joint	266.20

Note: The Basic rates adopted under this head " Rates of works" is exclusive of all taxes and GST

DATA ILLUSTRATION (RATES FOR ITEM No.16) ITEM No.17. LAYING AND JOINTING STONE WARE PIPES FOR ONE RUNNING METRE

(Only for illustration purpose assuming Conveyance charges for 20KM for Cement & Sand and 8KM for Stoneware pipes)

Diameter (in mm)	Length of each pipe in cm	Weight of S.W pipes for 30m (As per Hand Book of PHE)	Quantity of cement in Kg for 50 joints	Cost of cement required for 50 joints (Rs.) (6040-20+118.4=6178.40)	Quantity of sand in cubic metres for 50 mortar joints	Cost of sand required for 50 mortar joints at Rs. Per cum (447+ 276.4 = 723)	Quantity of spun of tarred yarn in Kg	Cost of yarn at Rs. 13.10/ Kg	Total cost of materials (Total of columns 5,7,8 & 9)	Labour for Laying and jointing						Cost of Labour for a length of 30m of SW pipes (Total No. of column 11,12,13 & 14) (Rs. P.)	Total cost of material and cost of Labour for 30 mts. (Total No. of Column 10 & 15) (Rs. P)	Conveyance of pipes from stock yard to site of work	Testing charges including conveyance of water tools and plants etc. (Rs.)	Total cost of laying and jointing SW pipes with CM and packing with spun or tarred yarn etc. complete for 30m length (Rs. P)	Total cost of laying 4 joints for 1 stoneware pipes complete for 1 metre (Rs. P)		
										Mason I Class (947.00) Amount.	Nos.	Fitter II Class (812.00) Amount.	Nos.	Mazdoor Category I (618.00) Amount.	Nos.							Mazdoor Category II (507.00) Amount.	Nos.
100	60	435	45	278.01	0.04	28.92	3.63	47.19	354.12	2	1894	1	812	5	3090	2	1014	6810	7164.12	264.95	288.09	7717.16	257.24
150	60	750	68	420.1	0.07	50.61	5.45	70.85	541.56	3	2841	2	1624	6	3708	3	1521	9694	10235.56	456.82	390.26	11082.64	369.42
200	60	1043	98	605.44	0.08	57.84	6.90	89.70	752.98	4	3788	2	1624	6	3708	3	1521	10641	11393.98	635.28	393.61	12422.87	414.10
225	60	1185	104	642.51	0.10	72.3	8.17	106.21	821.02	5	4735	3	2436	7	4326	5	2535	14032	14853.02	864.33	455.58	16172.93	539.10
250	60	1375	115	710.47	0.11	79.53	8.35	108.55	898.55	5	4735	3	2436	7	4326	5	2535	14032	14930.55	1002.91	470.66	16404.12	546.80
300	60	2180	150	926.7	0.15	108.45	11.34	147.42	1182.57	6	5682	3	2436	12	7416	6	3042	18576	19758.57	1590.07	599.63	21948.27	731.61
375	60	2425	318	1964.6	0.28	202.44	18.14	235.82	2402.86	7	6629	3	2436	14	8652	7	3549	21266	23668.86	2050.48	673.32	26392.67	879.76

Note 1. For other diameter of pipes now manufactured, the rates will be fixed in due course after observing data.

2. The rates arrived at adopting the data appended to this schedule of Rates is for works done in the first 2.00m depth extra percentage 5% for 2m to 2.5m, 7.50% for 2.50m to 3m, 10% for 3m to 3.50m 15% for 3.50m to 4m and 20% for above 4m depth over basic rates are allowed.

3. The above data does not include baling charges, baling charges to be added as extra as per rates given in the relevant PWD Schedule of Rates or as per actuals.

4. The conveyance charges adopted for Cement, Sand & Pipes are only for illustration purpose. The average lead for respective districts, as approved by the Chief Engineer shall be adopted for Cement & Sand. The lead for Pipe shall be adopted, as certified by the respective Assistant Executive Engineer.

**IV (B) RATES FOR EARTHWORK
EXCAVATION OTHER THAN PIPE LAYING
WORKS AND OPEN WELLS**

**EARTH EXCAVATION OTHER THAN PIPE LAYING WORKS
AND OPEN WELLS**

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
	Earthwork excavating and depositing on bank with an initial lead of 10 metres and initial lift of 2 metres in		
1	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 20 A	Cu.m	77.75
2	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 20 B	Cu.m	70.95
3	Slush and silt under water upto 0.75 metre depth requiring the aid of baskets and vessels SS 20 B	Cu.m	88.75
4	Trimming the bed and side slope of the bank in all soils except hard rock upto a thickness of 7.5 cm and making it ready to receive the concrete.	Sq.m	18.00
4a	7.50 cm to 15cm thick	Sq.m	21.85
5	Sectioning during forming bunds when earth moving machinery, lorries and rollers are used for consolidation.	Cu.m	13.20
6	Hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS 20A	Cu.m	113.15
7	Hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS 20B	Cu.m	106.25
8	Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting	Cu.m	158.20
9	In loose boulders in excavation of various sizes 150mm to 625mm	Cu.m	251.30
10	Medium Rock and Dense Medium Rock not requiring blasting	Cu.m	277.90
11	Extra for every additional 10 metres lead or part thereof over the initial lead	Cu.m	12.85

12	Extra for every additional 1 metre lift or part thereof over the initial lift	Cu.m	10.20
13	Breaking clods, consolidating and sectioning	Cu.m	6.30
14	Breaking clods, consolidating and sectioning the earth scooped by bull dozers	Cu.m	19.55
15	Add relevant TNDSS No.20A, rates for new tank bunds and closing breaches for extra watering and consolidation.		
a)	By hand roller	Cu.m	21.75
b)	By power roller including hire charges	Cu.m	36.95
16	Benching old embankment slopes 45cm x 45cm	Sq.m	4.00
17	Puddle wall work	Cu.m	175.50
18	Turfing in slopes including watering and fixing with initial lead upto 50m.	Sq.m	36.95
19a	Refilling with excavated sand complying with standard specification for filling in foundation and basement	Cu.m	32.45
19.b	Refilling with excavated soil (other than sand) complying with the standard specification for filling in foundation and basement	Cu.m	36.95
20	QUARRYING AND BLASTING		
a)	Hard rock measured in solid including blasting and stacking	Cu.m	751.00
b)	Removing hard rock by wedging chiselling and trimming to proper shape where blasting is prohibited.	Cu.m	1501.00
c)	Medium rock and dense medium rock requiring blasting	Cu.m	382.00
d)	Extra for every additional 10 metres lead or part thereof over the initial lead for blasted materials	Cu.m	8.95
e)	Extra for every additional 1 metre lift or part thereof over the initial lift of 2 m for blasted materials	Cu.m	9.20
f)	Benching hard rock upto an average 10cm depth	Sq.m	727.00
g)	Drilling holes in hard granite 32mm diameter	RM	203.50

h)	Drilling holes in hard granite 40mm diameter	RM	239.70
i)	Drilling holes in hard granite 45mm diameter	RM	281.00
j)	Drilling holes in hard granite 50mm diameter	RM	337.00
k)	Drilling holes in hard granite 75mm diameter	RM	383.00

The following foot note is applicable for the classifications of soils come under " Quarrying and blasting" and "Earth Work"

Note:

a) Standard specification No.20-A requires breaking clods, ramming and sectioning of spoil bank for which separate rate will not be paid.

b) Standard specification No.20-B does not require breaking clods, ramming and sectioning but requires neat banking in accordance with the standard specifications.

c) Double the relevant rate for standard specification No.20-B will apply to excavation in all the soils and rock classification given above for foundation of buildings, abutments, piers, wings and returns of bridges, culverts, sluices, regulators and cross masonry works, retaining walls, toe walls, cut-off walls and body walls of anicuts weirs, retaining walls of cause ways, bed dam, pits for avenue trees, trial pits and pits for poles, towers and toe walls for revetment and pipe laying trenches for water supply and sewerage works.

d) An extra 50 percent over the rates for ordinary excavation in all the soils and rock classification given above shall be allowed for drains, channels, contour trenches and canals having bed width 1.25 m and below. The extra percentage is applicable only for depth up to 2.00m the depth being measured from the bottom of excavation.

e) An extra 25 percent over the rates for ordinary excavation in all the soils and rock classification given shall be allowed for drains, channels and canals having bed width 1.25m to 2.00m. The extra percentage is applicable only for depth up to 2.0m the depth being measured from the bottom of excavation.

f) These rates for earth work do not include baling charge. The baling charges are to be paid as per actual in case baling is done departmentally or at actual plus 10 percent extra in case baling is done by other agencies. However for estimate purpose baling charges are to be provided at 10 percent of the rates of respective items of excavation in all soils including medium rock and dense medium rock and at 5 percent of the rates for excavation in hard rock.

g) Double the relevant rate for standard specification No.20B for excavation in all soils and rock classification given above shall be allowed for circular trenches for soil and moisture conservation having bed width of 0.25m and below with side slope of 1/2:1 and not less than 0.75 m in depth.

h i) A deduction of 40 percent is to be made for the quantity of voids and stack measurement and payment is for the lesser of two viz. Solid measurement or stack measurements minus 40 percent of stack measurement for voids.

h ii) The rates for extra lead and lift are on the quantity as per the solid measurement or stack measurement less 40 percent for voids whichever is less. These rates are applicable for head load only.

h iii) Payment for blasting the rock in solid shall be made for the lesser of the two quantities obtained by a) Measurement recorded by levels or measurement and b) by stack measurement less deduction for voids (This foot note is applicable for all items of rock measured in solid)

**IV (C) RATES FOR EARTHWORK
EXCAVATION PIPE LAYING WORKS FOR
WATER SUPPLY AND SEWERAGE WORKS**

EARTH WORK EXCAVATION FOR PIPE LAYING WORKS FOR WATER SUPPLY AND SEWERAGE WORKS			
Schedule item No	Description	Unit	Rates for 2022-23 in Rupees
1	Earth work excavation and depositing on bank with initial lead of 10 m and lift of 2 M in narrow trenches having bed width 1.25m & below for laying of pipes for water supply and sewerage works in the following type of soils as directed by Departmental officers		
a	Sand, silt or other loose soil, wet sand or silt not under water light black cotton soil, sandy loam and ordinary soil.SS20B	One cubic metre	177.38
b	Hard stiff clay, stiff black cotton, hard red earth, shales, murram gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil.SS20B	One cubic metre	265.63
II	Earth work excavation and depositing on bank with initial lead of 10m and lift of 2.00m in narrow trenches for laying of pipes for water supply and sewerage works in the following types of soil strata as directed by departmental officers		
a	In Soft Disintegrated Rock, Laterite, soft rock or kankar, not requiring blasting.	Cum	316.40
b	In Medium rock and dense medium rock not requiring blasting.	Cum	555.80
c	In Medium rock and Dense medium rock requiring blasting.	Cum	764.00
d	In hard rock including blasting, removal and stacking.	Cum	1502.00
III			
a	Earth work excavation for Pipe Laying work by removing dense medium rock using controlled blasting method by drilling blast holes using compressor and jack hammer including dewatering wherever necessary, cost of gelatin, electric detonator, licensed shot fireman, labour for filling earth in gunny bags, labour for excavation of earth, conveyance of earth including cost of gunny bags, M.S Plates, barricading, putting up road diversion boards and providing red light signal during night, removal of debris etc., where open blasting is prohibited and as directed by TWAD Board Officers.	Cum	743.00

Schedule item No	Description	Unit	Rates for 2022-23 in Rupees
b	Earth work excavation for Pipe Laying work by removing hard rock using controlled blasting method by drilling blast holes using compressor and jack hammer including stacking,dewatering wherever necessary, cost of gelatin, electric detonator, licensed shot fireman, labour for filling earth in gunny bags, labour for excavation of earth, conveyance of earth including cost of gunny bags, M.S Plates, barricading, putting up road diversion boards and providing red light signal during night, removal of debris etc., where open blasting is prohibited and as directed by TWAD Board Officers.	Cum	1358.00

**IV (D) RATES FOR EARTHWORK
EXCAVATION AND REFILLING FOR
PIPELINE WORKS HAVING BED WIDTH OF
1.25M AND BELOW ON LINEAR
MEASUREMENT BASIS**

**THE RATES FOR EARTH WORK EXCAVATION AND REFILLING FOR PIPE LINE WORKS
HAVING BED WIDTH OF 1.25M AND BELOW ON LINEAR MEASUREMENT BASIS**

Type	Pipe size in mm	Bed Width in 'm'	Depth in 'm'	Earth work qty. in cum/m	Outer dia of pipe in 'm'	Refilling Qty/cum/m	Earth work rate for other than loose soil/m Rs.	Earth work rate for loose soil/m Rs.	Refilling rate/m Rs.
					Cost of EWE				265.63
					Cost of refilling				36.95
					Cost of loose soil				177.38
CI/DI/MS	80	0.75	1.05	0.79	0.098	0.780	209.85	140.13	28.82
	100	0.75	1.05	0.79	0.118	0.777	209.85	140.13	28.71
	125	0.75	1.05	0.79	0.144	0.771	209.85	140.13	28.49
	150	0.75	1.05	0.79	0.170	0.765	209.85	140.13	28.27
	200	0.80	1.10	0.88	0.222	0.841	233.75	156.09	31.07
	250	0.80	1.20	0.96	0.274	0.901	255.00	170.28	33.29
	300	0.80	1.35	1.08	0.326	0.997	286.88	191.57	36.84
	350	0.90	1.45	1.31	0.378	1.193	347.98	232.37	44.08
	400	0.90	1.55	1.40	0.429	1.251	371.88	248.33	46.22
	450	1.00	1.70	1.70	0.480	1.519	451.57	301.55	56.13
	500	1.00	1.85	1.85	0.532	1.628	491.42	328.15	60.15
	525	1.00	1.85	1.85	0.532	1.628	491.42	328.15	60.15
AC CI 15	80	0.75	1.05	0.79	0.104	0.779	209.85	140.13	28.78
	100	0.75	1.05	0.79	0.124	0.775	209.85	140.13	28.64
	125	0.75	1.05	0.79	0.151	0.770	209.85	140.13	28.45
	150	0.75	1.05	0.79	0.178	0.763	209.85	140.13	28.19
	200	0.80	1.10	0.88	0.235	0.837	233.75	156.09	30.93
	250	0.80	1.20	0.96	0.286	0.896	255.00	170.28	33.11
	300	0.80	1.35	1.08	0.340	0.989	286.88	191.57	36.54
	350	0.90	1.45	1.31	0.396	1.162	347.98	232.37	42.94
	400	0.90	1.55	1.40	0.452	1.235	371.88	248.33	45.63
	450	1.00	1.70	1.70	0.502	1.502	451.57	301.55	55.50
	500	1.00	1.85	1.85	0.559	1.605	491.42	328.15	59.30
AC CI 10	80	0.75	1.05	0.79	0.104	0.779	209.85	140.13	28.78
	100	0.75	1.05	0.79	0.124	0.775	209.85	140.13	28.64
	125	0.75	1.05	0.79	0.149	0.770	209.85	140.13	28.45
	150	0.75	1.05	0.79	0.175	0.763	209.85	140.13	28.19
	200	0.80	1.10	0.88	0.229	0.839	233.75	156.09	31.00
	250	0.80	1.20	0.96	0.281	0.898	255.00	170.28	33.18
	300	0.80	1.35	1.08	0.333	0.993	286.88	191.57	36.69
	350	0.90	1.45	1.31	0.389	1.186	347.98	232.37	43.82
	400	0.90	1.55	1.40	0.436	1.246	371.88	248.33	46.04
	450	1.00	1.70	1.70	0.486	1.515	451.57	301.55	55.98

Type	Pipe size in mm	Bed Width in 'm'	Depth in 'm'	Earth work qty. in cum/m	Outer dia of pipe in 'm'	Refilling Qty/cum/m	Earth work rate for other than loose soil/m Rs.	Earth work rate for loose soil/m Rs.	Refilling rate/m Rs.
	500	1.00	1.85	1.85	0.541	1.620	491.42	328.15	59.86
PVC/ HDPE/ GRP	40	0.60	1.05	0.63	0.040	0.629	167.35	111.75	23.24
	50	0.60	1.05	0.63	0.050	0.628	167.35	111.75	23.20
	63	0.60	1.05	0.63	0.063	0.627	167.35	111.75	23.17
	75	0.60	1.05	0.63	0.075	0.626	167.35	111.75	23.13
	90	0.60	1.05	0.63	0.090	0.624	167.35	111.75	23.06
	110	0.60	1.05	0.63	0.110	0.621	167.35	111.75	22.95
	125	0.60	1.05	0.63	0.125	0.618	167.35	111.75	22.84
	140	0.60	1.05	0.63	0.140	0.615	167.35	111.75	22.72
	160	0.60	1.05	0.63	0.160	0.610	167.35	111.75	22.54
	180	0.75	1.05	0.79	0.180	0.760	209.85	140.13	28.08
	200	0.80	1.10	0.88	0.200	0.850	233.75	156.09	31.41
PSC/ BWSC	350	0.90	1.45	1.31	0.464	1.136	347.98	232.37	41.98
	400	0.90	1.55	1.40	0.514	1.188	371.88	248.33	43.90
	450	1.00	1.70	1.70	0.564	1.450	451.57	301.55	53.58
	500	1.00	1.85	1.85	0.614	1.554	491.42	328.15	57.42
GI	15	0.75	1.05	0.79	0.020	0.787	209.85	140.13	29.08
	20	0.75	1.05	0.79	0.030	0.787	209.85	140.13	29.08
	25	0.75	1.05	0.79	0.030	0.787	209.85	140.13	29.08
	32	0.75	1.05	0.79	0.040	0.786	209.85	140.13	29.04
	40	0.75	1.05	0.79	0.050	0.786	209.85	140.13	29.04
	50	0.75	1.05	0.79	0.060	0.786	209.85	140.13	29.04
	65	0.75	1.05	0.79	0.070	0.784	209.85	140.13	28.97
	80	0.75	1.05	0.79	0.090	0.781	209.85	140.13	28.86
	100	0.75	1.05	0.79	0.110	0.778	209.85	140.13	28.75
	125	0.75	1.05	0.79	0.140	0.772	209.85	140.13	28.53
	150	0.75	1.05	0.79	0.160	0.767	209.85	140.13	28.34

NOTE

(i) For Earthwork excavation for loose soil SS-20B and ordinary soil SS-20B

a) with bed width less than 1.25m and depth more than 2.0 m, the quantities may be worked out seperately with extra cost as per foot note (c) (d) of IV (B) and additional lift charges may be adopted

b) with bed width more than 1.25m, the quantities may be worked out seperately with extra cost as per foot note (c),(e) of IV (B) and additional lift charges may be adopted for depth more than 2.0 m

(ii) For Earthwork excavation in SDR, DMR, HR etc., linear measurement rate may be worked out seperately and to be approved by the SE concerned after verification of soil classifications by putting trial pits at closer intervals. (B.P.Ms. No. 82/ CoM wing/ Dt: 22.08.2008)

IV (E) RATES FOR MISCELLANEOUS ITEMS

RATES FOR MISCELLANEOUS WORKS

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
	PLUMBING		
1. A	Laying of G.I. Pipes and specials to proper line and level including jointing but excluding cost of pipes and jointing materials for plumbing works for providing water supply and sanitary works in the premises of the building		
	6 mm to 32 mm dia	One metre	19.80
	40 mm to 50 mm dia	One metre	19.80
	65 mm to 150 mm dia	One metre	26.40
b	Bore cap using M.S. Flat of size 1 cm x 3 mm and M.S. sheet on top with bolting arrangements for securing the cap in position (Bore caps with M.S. Couplings need not be made)		
	5" Casing Pipes	Each	545.60
	6" Casing Pipes	Each	578.60
	8 " Casing Pipes	Each	635.80
2	Labour for cutting open road for laying water mains or sewer.		
a.	B.T. Roads (or) Maccadam road	One cu.m	801.90
b.	Concrete Roads	One cu.m	1123.10
3	Labour for drilling, cutting, Threading and Fixing Ferrules in distribution pipes.		
	10 mm dia	Each	83.60
	15 mm dia	Each	104.50
	20mm dia	Each	132.00
	25 mm dia	Each	156.20
4	Labour charges for Painting TWAD Board Emblem in accordance with the size and specifications as approved by the Board on the Service Reservoirs including cost of all consumables, one coat of base paint, scaffolding charges including painting NRDWP Logo on the Service Reservoirs.	Sqm	2944.70
5	Drilling holes in C.I./G.I. Dummy Flanges.		
	12 mm dia	Each	29.70
	15 mm dia	Each	59.40
	20 mm dia	Each	85.80
	22 mm dia	Each	115.50
	25 mm dia	Each	145.20

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
6	Labour for refilling with sand the socket hollows of pipes including conveyance and stacking	One cu.m	29.70
	NOTE : 1) For depth between	Percentage excess allowed over basic rate	
	2 m to 4 m	15%	
	4 m to 6 m	30%	
7	Lifting and positioning of C.I / G.I / DI/ MS Pipes in vertical direction for service reservoir pipe connection		
	0 to 2 m	Qtl	248.60
	2 to 4 m	Qtl	375.10
	4 to 6 m	Qtl	588.50
	6 m to 8 m	Qtl	814.00
	8 m to 10 m	Qtl	1039.50
	10 m to 12 m	Qtl	1261.70
	12 m to 14 m	Qtl	1492.70
	14 m to 16 m	Qtl	1700.60
	16 m to 18 m	Qtl	1925.00
	18 m to 20 m	Qtl	2150.50
	20 m to 22 m	Qtl	2370.50
	22 m to 24 m	Qtl	2592.70
	DRILLING WORKS		
	Using Hand Bore set		
	Drilling of borewells of size 4" to 5" dia. in Sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including supplying and packing of pebbles and conveyance of hand Boreset including loading and unloading	One metre	939.40
b	Drilling of borewells of size 6" to 8" dia. in sedimentary formation using hand boreset including insertion of casing pipe etc., and supplying and packing of pebbles (Conveyance of hand bore set including loading and unloading to be done by the contractor)	One metre	1105.50

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
c	Using Hand Bore set (For Investigation purpose)		
I	Drilling of borewells of size 4" to 5" dia. in sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including collection of samples as directed by the TWAD Board Officers.	One metre	699.60
ii	Drilling of borewells of size 6" to 8" dia. in sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including collection of samples as directed by the TWAD Board Officers.	One metre	819.50
	Using Calyx Drill		
d	Drilling of 4 1/2" diameter borewell by using Calyx Drill including transporting charges and insertion of casing pipes (excluding cost of casing pipe)		
i.	For Hilly terrain area	One metre	3517.80
ii.	For Plain area	One metre	2906.20
e	Drilling 4 1/2" dia meter bores by using In-Well rig in Hilly areas	One metre	1480.60
f	Reaming from 6" Pilot bore to 12" size bore as directed by the TWAD Board Officers	One metre	386.10
g	Labour charges for inserting casing pipes assembly (With slot or without slot) in the drilled hole including welding the joint etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Executive Engineer	One metre	369.60
9 a	Driving sheet piles for one metre length of gallery each side in sandy soil		
i.	First depth of 2 m	One metre	729.30
ii	Second depth of 2 m	One metre	1114.30
iii	Third depth of 2 m	One metre	2093.30
b	Removing sheet piles from one metre length of gallery on each side including stacking the sheet piles properly		
i.	First depth of 2 m	One metre	113.30
ii	Second depth of 2m	One metre	173.80
iii	Third depth of 2 m	One metre	251.90
10	Drilling of borwell inside well 115mm dia.		
	a) Vertical	One metre	808.50
	b) Horizontal	One metre	886.60
11	Drilling of borewell inside well 150mm dia.		
	a) Vertical	One metre	1012.00
	b)Horizontal	One metre	1069.20

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
12	Drilling of Borewells anywhere in Tamilnadu including transportation from one place to another with in Tamilnadu in alluvial soil sedimentary strata of clay and sand stone shale pebbles boulders etc. By first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia direct or reverse rotary mud circulation method using rotary rigs, fuel, labour and drilling bentonite and water required for drilling at site (Site will be shown by the TWAD Board Officers) including construction of mud pit.	P.S. to M.D.S.S. Special Specifications.	
a.	Drilling of 140/150 mm pilot bore		
i.	Upto 60 m Depth ending below ground level	One metre	1689.60
ii	From 60 m upto 90 m Depth ending from ground level	One metre	1830.40
iii	From 90 m upto 120 m Depth ending from ground level	One metre	1940.40
iv	From 120 m upto 150 m Depth ending from ground level	One metre	2042.70
v	From 150 m upto 180 m Depth ending from ground level	One metre	2074.60
vi	From 180 m upto 210 m Depth ending from ground level	One metre	2141.70
vii	From 210 m upto 240 m Depth ending from ground level	One metre	2203.30
viii	From 240 m upto 270 m Depth ending from ground level	One metre	2280.30
ix	From 270 m upto 300 m Depth ending from ground level	One metre	2330.90
x	From 300 m upto 330 m Depth ending from ground level	One metre	2387.00
xi	From 330 m upto 360 m Depth ending from ground level	One metre	2437.60
12 b	Reaming 140/150 mm dia pilot bore to 300mm dia bore as directed by the TWAD Board Officer.		
i.	Upto 60 m depth ending below ground level	One metre	424.60
ii	From 60 m depth and upto 90 mt depth ending below ground level	One metre	451.00
iii	From 90 m upto 120 mt depth ending below ground level	One metre	480.70
iv	From 120 m upto 150 mt depth ending below ground level	One metre	488.40

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
v	From 150 m upto 180 mt depth ending below ground level	One metre	510.40
vi	From 180 m upto 210 mt depth ending below ground level	One metre	536.80
vii	From 210 m upto 240 mt depth ending below ground level	One metre	561.00
viii	From 240 m upto 270 mt depth ending below ground level	One metre	580.80
ix	From 270 m upto 300 mt depth ending below ground level	One metre	612.70
x	From 300 m upto 330 mt depth ending below ground level	One metre	636.90
xi	From 330 m upto 360 mt depth ending below ground level	One metre	660.00
12 c	Reaming 200 mm dia pilot bore to 350mm dia bore as directed by the TWAD Board Officer.		
i.	Upto 60 m depth ending below ground level	One metre	476.30
ii	From 60 m depth and upto 90 mt depth ending below ground level	One metre	504.90
iii	From 90 m upto 120 m depth ending below ground level	One metre	536.80
iv	From 120 m upto 150 m depth ending below ground level	One metre	553.30
v	From 150 m upto 180 m depth ending below ground level	One metre	572.00
vi	From 180 m upto 210 m depth ending below ground level	One metre	614.90
vii	From 210 m upto 240 m depth ending below ground level	One metre	702.90
viii	From 240 m upto 270 m depth ending below ground level	One metre	721.60
ix	From 270 m upto 300 m depth ending below ground level	One metre	738.10
x	From 300 m upto 330 m depth ending below ground level	One metre	762.30
xi	From 330 m upto 360 m depth ending below ground level	One metre	781.00
12 d	Reaming 300 mm dia pilot bore to 400mm/ 450mm dia bore as directed by the TWAD Board Officer.		
i.	Upto 60 m depth ending below ground level	One metre	654.50
ii	From 60 m depth and upto 90 m depth ending below ground level	One metre	732.60

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
iii	From 90 m upto 120 m depth ending below ground level	One metre	781.00
iv	From 120 m upto 150 m depth ending below ground level	One metre	828.30
v	From 150 m upto 180 m depth ending below ground level	One metre	861.30
vi	From 180 m upto 210 m depth ending below ground level	One metre	885.50
vii	From 210 m upto 240 m depth ending below ground level	One metre	906.40
viii	From 240 m upto 270 m depth ending below ground level	One metre	949.30
ix	From 270 m upto 300 m depth ending below ground level	One metre	985.60
x	From 300 m upto 330 m depth ending below ground level	One metre	1034.00
xi	From 330 m upto 360 m depth ending below ground level	One metre	1069.20
12 e	Labour Charges for inserting 150 mm/200mm/250 mm dia (M.S. Casing pipes assembly with slots or with out slots) in the drilled hole including welding the joints etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Executive Engineers of TWAD Board.		
i.	150 mm dia Casing Pipes assembly	One metre	380.60
ii	200 mm dia Casing Pipes assembly	One metre	380.60
iii	250 mm dia Casing Pipes assembly	One metre	387.20
13 a	Labour Charges for inserting PVC Casing pipes assembly (with slots or without slots) in the drilled hole including jointing the pipes with PVC Couplers with Cement paste etc., complete, supply and packing the annular space with pebbles of size and quality as approved by the executive engineers of TWAD Board		
i.	150 mm dia Casing Pipes assembly	One metre	369.60
ii	200 mm dia Casing Pipes assembly	One metre	380.60
iii	250 mm dia Casing Pipes assembly	One metre	380.60

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
13 b	Charges for developing the Borewell with air compressor of 600 CFM capacity (Minimum 8 Hours) including transportation, labour and fuel charges for compressor as directed by TWAD Officers and conducting yield test by 'V' notch method.	One hour	2490.40
	Note : I) 150 mm dia bore, reaming should be done upto 300mm dia. II) 200 mm dia bore, reaming should be done upto 300mm dia and thereafter 400,450 etc.		
14	Drilling of borewell anywhere in Tamilnadu including transportation from one place to another place within Tamilnadu in alluvial soil or sedimentary strata of clay and sand or sand, stone, shale, pebbles, boulders etc., by first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia by direct or reverse rotary mud and circulation method using Contractor's rig, fuel, labour, drilling, bentonite mud and water required for drilling at the site shown by the TWAD Officers including construction of mud pit (only Calyx drills are to be used).		
a.	Drilling 140 / 150 mm dia Pilot Bore upto 60 m depth ending below ground level.	One metre	1232.00
b.	Reaming from 140/150 mm dia pilot bore to 300 mm dia bore as directed by the TWAD Board Officers upto 60 m Depth ending from ground level	One metre	347.60
c.	Labour charges for inserting 150 mm dia M.S. Casing pipes assembly (With slots or without slots) in the drilled hole including welding the joints and packing annular space with pebbles of size and quality as approved by the Executive Engineer / TWAD Board	One metre	312.40
d.	Labour Charges for inserting PVC casing pipes assembly (with slots or without slots) in the drilled hole including the jointing the pipes with PVC couplers with cement paste etc. complete		
i.	140 mm OD PVC Casing Pipes Assembly	One metre	267.30
ii	165 mm/168 mm dia PVC Casing pipes Assembly	One metre	312.40
e.	Charges for developing the borewell with air compressor of 300 CFM capacity (Minimum 8 Hours) including transportation labour and fuel charges for compressor as directed by TWAD Board Officers and conducting yield test by 'V' notch method.	One hour	1937.10

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
f.	Drilling of 12" dia vertical borewell so as to have a finished size of 6" dia borewell in boulder area to any required depth as decided by the TWAD Board Officers including Transportation from one place to another place within Tamilnadu State by direct or reverse rotary mud circulation method using Contractor's rig tools, fuel, labourers, bentonite mud and water required for drilling at the site shown by the TWAD Officers including construction of mud pit etc. using only calyx rigs.	One metre	2370.50
15 a.	Conveyance of Hand Pumps and its accessories from divisional stores to site of works		
i.	Conveyance upto 10 Kms	Each Hand Pump and its accessories	710.60
ii	Conveyance 10 to 20 Kms		891.00
ii	Conveyance 20 to 40 Kms		1085.70
iv	Conveyance above 40 Kms		1258.40
	Note : i) Conveyance of Filter Point, Handpump with GI Pipes and its accessories from divisional stores to site of works. 50% of the rate of conveyance of hand pumps, with its accessories is applicable for this item for the respective leads as indicated above ii) If the Mark II hand pump is conveyed in cart track even for part distance 20 % extra over the above rate shall be adopted.		
b i.	Erection of deep well hand pumps upto 40 m	Each	1258.40
ii	Above 40 m	Each	1435.50
c.	Erection of shallow well hand pumps	Each	555.50
d.	Erection Extra deep well hand pumps	Each	1624.70
e.	Removal of deep well hand pumps from borewell		
i.	Up to 40 m	Each	1258.40
ii	Above 40 m	Each	1586.20
f)	Attending repairs to deep well handpumps for borewells inclusive of removal of G.I. Pipes, Plunger rods, Cylinder and re-erection of hand pumps inclusive of lowering the GI Pipes Plunger rods cylinder, jointing etc.		
i.	Upto 30 M	Each	1336.50
ii)	Above 30 M	Each	1563.10

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
16 a	Erection of filter point with G.I. Pipes of 32 mm to 65 mm dia.	Each	363.00
b	Removing the choked filter point with G.I. Pipes of 32 mm to 65 mm dia and re-erecting in another place within 1.00 KM radius after cleaning the filter points G.I. Pipes etc., Complete upto 8 m depth	Each	603.90
17a	ERECTION OF POWER PUMPSET IN BORE/OPENWELL		
	Labour Charges for erection of Horizontal shaft, centrifugal pumpset (Coupled/Monoblock) in bore well/Open well including fixing of suction pipe and foot valve upto a maximum depth of 7 metres and delivery pipes to the required length with valves, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPIC switches starter, Voltmeter, Ammeter, Capacitor single phasing preventor and laying and jointing the cables and twin earthing as per IE rules including providing bed blocks etc., complete and operating the pumps and trial run for 10 days including signing of completion of reports as required by EB authorities.		
i.	Upto 3 HP	Each	8131.20
ii	Above 3 HP upto 7.5 HP	Each	10465.40
iii	Above 7.5 HP to 20 HP	Each	12263.90
iv	Above 20HP to 30 HP	Each	13724.7
v	Above 30 HP to 40 HP	Each	17780.4
vi	Above 40Hp to 50HP	Each	24797.3
17 b	ERECTION OF POWER PUMPS IN BORE WELL		
	Erection of power pumps in borewell labour charges for erection of twin packer duplex type jet pumps in borewells upto 150 mm dia including fixing of Suction pipe regulating valves with jet assembly upto a maximum depth of 30 m and delivery pipe valves pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three indicator lamps capacitor and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumps and trail run for 10 days including signing of completion of reports as required by EB authorities and finishing the pipe holes including the foundation bolts, nuts and earth pits.		
i.	Upto 3 HP	Each	10876.80
ii	Above 3 HP upto 7.5 HP	Each	12708.30

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
iii	Beyond 7.5 HP upto 20 HP	Each	14531.00
	Note : If depth of erection exceeds beyond 30 m 10% increase over the basic rate is allowed		
17 c	Labour charges for the erection of submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days.		
i.	Upto 5 HP	Each	11056.10
ii)	Above 5.00 HP to 10.00 HP	Each	12669.80
iii)	Above 10.00 HP to 20.00 HP	Each	14055.80
iv	Above 20HP to 30 HP	Each	15284.5
v	Above 30 HP to 40 HP	Each	19477.70
vi	Above 40Hp to 50HP	Each	25734.5
17 d	Conveyance of power pumpset (centrifugal, jet and submersible) and its accessories from divisional stores to site of works.		
	Conveyance upto 10 Kms	Each Power Pump and its accessories	1545.50
	Conveyance 10 to 20 Kms	-do-	1699.50
	Conveyance 20 to 40 Kms	-do-	2514.60
	Conveyance 40 to 60 Kms	-do-	3066.80
	Conveyance 60 to 80 Kms	-do-	4024.90
	Conveyance above 80 Kms	-do-	4615.60
	Note : For item 17 (a), (b) and (c)		
i.	Removal of centrifugal pumpset/ jet pumps/ submersible pumpsets and its accessories from borewell/ open well for attending repairs 50% of the rates mentioned under item 17 (a), (b) and (c) may be allowed for the respective Horse power.		
ii	Re-erection of centrifugal pumpsets, jet pumpsets and its accessories into the borewell/ openwell after attending the repairs 50% of the rate mentioned under item 17 (a), (b) and (c) may be allowed for respective Horse power.		
18	Hire charges :		
a	Sheet piles (Larsen)	Per Pile/Per day	6.60

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
b	Sheet piles (For dingham)	Per Pile/Per day	9.90
c	Compartment sheet with Grills (3' - 0" Wide)	Per sheet/Per day	9.90
d	Rate for flushing of borewell of 6" dia requiring less than 4 hours operation using drill rods/ hose with required size of pipes for various capacity compressor including transportation, labour, and fuel charges for compressors as directed by the TWAD Officer and conducting yield test by 'V' notch method if required.		
i.	600 Cfm (100 /150 PSI)	1 hour (or) Part there of	2490.40
ii)	300/250 Cfm (100 PSI)	1 hour (or) Part there of	1937.10
ii)	125 Cfm (100 PSI)	1 hour (or) Part there of	1774.30
	Note : Minimum charges for 8 (eight) hours will be levied if the air compressor issued for other departmental works or if the air compressor is hired to other departments.		
e	Helmet	Per day/8 hours	9.90
f	Hand test pump	Per day/8 hours	90.20
g	Pile hammer	Per day/8 hours	9.90
h	Concrete mixer 5 Cft. With driver (Excluding cost of fuel)	Per day/8 hours	850.30
i.	Concrete mixer 7 Cft. With driver (Excluding cost of fuel)	Per day/8 hours	1282.60
j	Hand operated winch	Per day/8 hours	83.60
k	Pile cap	Per day/8 hours	22.00
l	Dewatering using 3HP to 70HP diesel engine pumpset including Hire charges, cost of Diesel, Engine oil, pump operator, labour charges, conveyance of pumpset and fuel to site and back, loading, unloading and any other incidental charges etc., complete.		
i)	Hire charges for Diesel Pump set for 3 HP	Per Hour	252.38
ii)	Hire charges for Diesel Pump set for 5 HP	Per Hour	319.35
iii)	Hire charges for Diesel Pump set for 7.5 HP	Per Hour	436.06
iv)	Hire charges for Diesel Pump set for 10 HP	Per Hour	558.28
v)	Hire charges for Diesel Pump set for 12.5 HP	Per Hour	641.99
vi)	Hire charges for Diesel Pump set for 15 HP	Per Hour	720.21
vii)	Hire charges for Diesel Pump set for 20 HP	Per Hour	876.63
viii)	Hire charges for Diesel Pump set for 40 HP	Per Hour	1463.85
ix)	Hire charges for Diesel Pump set for 50 HP	Per Hour	1738.21
x)	Hire charges for Diesel Pump set for 60 HP	Per Hour	2051.06
xi)	Hire charges for Diesel Pump set for 70 HP	Per Hour	2374.92
m	Hire charges for Centrifugal slugde removal pumpset with fuel and crew charges including transportations, fixing and dismantling		

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
(i)	Upto 2HP	Per Hour	234.30
(ii)	Above 2HP to 5HP	Per Hour	304.70
19 a	Labour for tying barbed wire fencing horizontally through the holes in RCC posts with required tension.	One metre	9.90
b	Labour for tying barbed wire fencing vertically with required tension	One metre	9.90
20	Labour charges for putting bore holes of size 3" to 4" in river bed in sandy and other loose soils using hand boring sets including the cost of hire charges, conveyance charges of hand boring sets, collection of soil sample at frequent intervals and as directed by TWAD Board Officers.	One metre	507.10
21	Desilting light or sandy soil or silt from infiltration wells below water level including the charges for special T&P and air compressor etc. complete.	One cu.m.	2018.50
22	Surveying and levelling for the proposed alignment of pipe line by Total station method by engaging qualified Engineers with minimum qualification of B.E.(Civil), Technical Assistant Grade I & II and Mazdoor category I, using the contractor own survey instruments, Special tools and plants vehicle hire charges, transportation, initial incidental charges such as jungle clearance etc. Preparation of Tree map and alignment plan, duly incorporating salient details, such as topographical features, permanent land marks, bench marks etc. at appropriate points, alignment plans and longitudinal section plan at 30 m intervals in addition to other salient locations such as branches, bends, culverts, river crossing etc, with all field particulars in Auto Cad and submission of plan 3 set, along with LF books with making all entries with certification by above qualified Engineers with soft copy and marking TBM stones at required places with bench mark registers soft copies 3 set and hard copy 5 set etc., complete as directed by TWAD Board officers.	1KM	4345
23	Dismantling		
	Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of walls		
i	Brick / stone in clay walls under 3 m high	cu.m	65.10
ii	Brick / stone in clay walls, add for every additional 3 m or part there of over the initial height of 3 m	cu.m	21.60
iii	Mud / sun dried brick walls under 3 m high	cu.m	43.60

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
iv	Mud / sun dried brick walls, add for every additional 3 m or part thereof over the initial height of 3 m	cu.m	12.35
v	Brick / stone masonry in lime mortar walls under 3 m high	cu.m	199.20
vi	Brick / stone masonry in lime mortar walls, add for every additional 3 m or part thereof over the initial height of 3 m	cu.m	22.00
vii	Brick / stone masonry in Cement mortar walls under 3 m high	cu.m	244.00
viii	Brick / stone masonry in Cement mortar walls,add for every additional 3 m or part thereof over the initial height of 3 metre	cu.m	25.75
ix	Terracing work in roof or floor	sqm	66.10
x	Flag stone in roof or floor including lifting	sqm	34.85
xi	Cut stone slab over culverts upto 3.3.m height below ground level	cu.m	1017.00
xii	Cut stone slab over culverts over 3.3.m height below ground level	cu.m	1060.00
xiii	Removal of cut stone slabs / RCC Cover slabs	sqm	442.00
xiv	Refixing cut stone slabs/ RCC Cover slab	sqm	485.00
xv	Pantile or Mangalore tiled roof without roof timbers	sqm	17.15
xvi	Flat and Pan tiles or Mangalore tiles over flat tiles, without roof timbers	sqm	24.00
xvii	Asbestos cement sheets roofing without roof timbers	sqm	15.25
xviii	Corrugated iron sheet roofing over pan tiles, without roof timbers	sqm	25.75
xix	Old Thatched roof, including tying materials into small bundles for reuse	sqm	7.40
xx	Wrought and put up framed timbers in roofs / floors	cu.m	639.00
xxi	Doors and windows including removal of frames, hinges and fastenings	sqm	132.40
xxii	Drystone apron or revetment, stacking within 40m lead	cu.m	113.40
xxiii	Grouted stones apron or revetment, stacking within 40 m lead	cu.m	132.40
xxiv	Dry stone masonry walls	cu.m	96.50
xxv	Dismantling lime concrete	cu.m	305.00
xxvi	Dismantling plain cement concrete	cu.m	419.00
xxvii	Dismantling reinforced cement concrete	cu.m	6380.00
xxviii	Dismantling RCC using deploying machineries	cu.m	3652.00
xxix	Chipping of concrete and roughening the surface	sqm	34.85
xxx	Pressed tiles & weathering course	sqm	39.70
xxxi	One course of pressed tile roof finish in Cement Mortar	sqm	22.00
xxxii	One course of terrace bricks roof finish in Cement Mortar	sqm	25.70
xxxiii	Two course of flat tiles roof finish in Cement Mortar	sqm	25.70

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
xxxiv	Mosaic-in-situ finish in cement mortar in flooring and in wall surface	sqm	54.50
xxxv	Floor finish and dadoing walls in Cement Mortar with mosaic tiles/ glazed tiles/ cuddapah slabs.	sqm	52.50
xxxvi	Clearing the site		
a	Clearing Heavy jungle	sqm	7.40
b	Clearing Light jungle	sqm	5.55
c	Clearing Scrub jungle	sqm	5.15
d	Uprooting and removing large palmyrah/ coconut stumps	each	152.65
e	Uprooting and removing small palmyrah/ coconut stumps	each	109.65
f	Removing weeds in channel and drain	sqm	1.95
g	Cleaning juliflora jungle with uprooting	sqm	8.45
h	Cleaning juliflora jungle without uprooting	sqm	6.40
<p>Note : Definition of large and small stumps : The Diameter of Stumps shall be 1/3 of the circumference at a point 0.6 m above the highest ground level at the stump or the circumference near the top of the stump if the stump is less than 0.60 m in height (The measurement for circumference and determination of the diameter will be to the nearest full centimetre). Only stumps with Circumference of 30 cm and more will be measured for payment. The Sl. No d, is for Stumps of Diametre above 30 cm and Sl. No. e is for stumps of diametre 15 to 30 cm.</p>			
24.OPEN WELL EXCAVATION			
1	Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10 metres in sand, silt or other loose soil, Wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil - First depth of 2 metres.	Cu.m	70.95
2	Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metres in Hard stiff clay, stiff black cotton soil, hard red earth, shales, murrans gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil - First depth of 2 metres	Cu.m	105.90
3	Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10 metres in soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting - First depth of 2 metres	Cu.m	163.20
4	Open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10m in Medium rock and Dense medium rock not requiring blasting. First depth of 2 metres	Cu.m	262.70

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
5	Open well excavation complying with relevant clauses of T.N.D.S.S. well sinking and with lead up to 10m in Medium rock and Dense medium rock requiring blasting. First depth of 2 metres	Cu.m	393.00
6	Open well excavation complying with relevant clauses of T.N.D.S.S. well sinking and with lead up to 10m in hard granite measured in solid including blasting and stacking - First depth of 2 metres	Cu.m	770.00
7	Sinking well in loose soils, light black cotton soil, sandy loam and ordinary soil under water including bailing or pumping charges if necessary etc., complete - First depth of 2 metres	Cu.m	110.00
8	Sinking well in sand, including bailing or pumping charges if necessary etc. complete - First depth of 2 metres	Cu.m	154.40
9	Sinking well in hard stiff clay, light black cotton soil, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil including bailing or pumping charges if necessary etc. complete - First depth of 2 metres	Cu.m	154.40

Note : Open well Excavation

- a) Up to 2m diameter of wells, 10 percent excess will be allowed over the basic rates for open well excavation.
- b) The rates do not include baling charges. If the dewatering is to be done departmentally, 10 percent of cost of excavation shall be allowed for dewatering for estimate purposes. Actual or 10 percent whichever is less to be allowed for dewatering charges. For any expenditure above this percentage prior approval of the competent authority should be obtained.
- c) Stage depth rates for well excavation" The stage depth for adopting the rates from the schedule of rates should be reckoned from ground level only irrespective of the fact, whether there is parapet wall or not.
- d) For open well excavation for rates up to 12m depth, the progression would be x, 2x, 3x, 4x, 5x, and 6x and rate beyond 12 metre depth, the progression should be 8x, 10x, 12x, 14x and 16x and so on.

Note: Sinking of wells

- a) For sinking of wells 20% excess will be allowed over the basic rates for wells of diameter 3m and above
- b) For well sinking for rates upto 12m depth, the progress should be y, 2y, 4y, 6y, 8y and 10y and for rates beyond 12m depth the progress should be 13y 16y, 19y and so on

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
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c) The rates of 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 the water 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

d) Schematic working sheet for openwell excavation for sinking of wells and open well excavation for deriving the rates is given below

Open well	Depth in meters	Sinking of wells
x	2	y
2x	4	2y
3x	6	4y
4x	8	6y
5x	10	8y
6x - 12m	12	10y
8x	14	13y
10x and so on	16	16y and so on

Note: x - Basic rate for open well excavation

Note: y- Basic rate for sinking well

25.RATE FOR EARTH WORK BY DEPLOYING MACHINERIES			
Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
1	Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with lead of 0 to 100 metre deploying earth moving machineries and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete.	Cu.m	51.45
1.a.	Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with an extra lead of every 100 metre or part thereof deploying earth moving machineries and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete.	Cu.m	4.05
2	Earth work deploying earth moving machineries for desilting channel and forming bund on either side and depositing the earth on banks including jungle clearance etc., complete.		
a.	Having width upto 3 m	Cu.m	30.35
b.	Having width of 3 m – 10 m	Cu.m	37.30
3	Earth work excavation deploying earth moving machineries for desilting channel having a width of more than 10 m and forming bund on either side and depositing the earth on banks including jungle clearance etc., complete.	Cu.m	43.30
26	Lift charges - concrete - Brick or stone Masonry above or below ground level		
	Note: The rate for lime concrete, cement concrete, reinforced cement concrete, brick work and stone masonry worked out as per Standard Data will apply to basement and foundation up to a depth of 1.50 m below ground level only (basic rate)		
	Statement I		
a)	Concrete above ground level		
1	Add to the basic rate for works up to 4.50m height in ground floor (height to be reckoned from floor level i.e. plinth level in ground level)	Cu.m	113.60

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
2	Add for works in every upper floor over the rate of preceding floor	Cu.m	223.80
b)	Brick or stone masonry above ground level		
i.	Add to the basic rates for works up to 4.50m height in ground floor (height to be reckoned from floor level i.e. plinth level in ground level)	Cu.m	74.80
ii.	Add for works in every upper floor over the rate of preceding floor	Cu.m	150.90
Note:			
i)	For the works above 4.5m height in individual floor the rate of next floor may be taken. The extra rates allowed for building works are applicable to irrigation works and road works also. The extra rates may be allowed for the structures beyond 1.00m above ground level.		
ii)	The extra rates may be allowed considering the ground level as datum in respect of service reservoirs (where there is no plinth level)		
	Statement II		
a)	Concrete below ground level		
1	Add the basic rate for works above 1.5m depth and upto 4.5m depth below ground level	Cu.m	111.80
2	Add the basic rate for works above 4.5m depth and upto 9.0 m depth below ground level	Cu.m	224.40
3	Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level	Cu.m	224.40
B)	Brick or stone masonry below ground level		
1	Add the basic rates for works above 1.5m depth and up to 4.5m depth below ground level	Cu.m	75.10
2	Add the basic rates for works above 4.5m depth and up to 9.0m depth below ground level	Cu.m	150.70
3	Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level	Cu.m	150.70

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
Note :			
1	The above extra rates are applicable for buildings, irrigations, and road works.		
2	First Grade stone includes hard granite, trap, etc. second Grade stone includes gneiss, lime stone etc.		
3	The class of materials to be used should always be defined in the items, description in tender schedules, contract schedules etc.		
4	For reinforced cement concrete work, only the hardest locally available stone will be used, if it has good bonding surface and is otherwise suitable proportions for concrete are defined in the relevant standard specification.		
5	Note under Sl.No.179 to 187 in the standard data book applies to arches over doors and windows. For large arches in bridges and irrigation works, addition to this rate, extra cost of centering is to be made.		
6	For concrete mix		
a.	Equal mixes (i.e.) 50 percent mortar mixes only should be adopted for plain concrete for foundation, flooring and RC Concrete for roofs, lintels, etc. wherever cement is used with hard broken stones or brick jelly.		
b.	40 percent or 50 percent mortar mixer may be adopted where lime concrete with brick aggregate is used according to the condition at site.		
27	CONCRETE VIBRATORS		
1	Where vibrators are specified for consolidation in plain Cement concrete, this rate per cu.m over and above the provision made in the standard data book for consolidation with manual labour may be allowed.	Cu.m	66.20
2	Where vibrators are specified for consolidation in RCC, this rate per cu. m over and above the provision made in the standard data book for consolidation with manual labour may be allowed.	Cu.m	89.40
28	Plastering		
1	Clean removal of lime plaster from walls and racking out joints 20mm deep or from terraced roofs racking out joints 12mm deep	sq.m	8.95
2	Clean removal of lime plaster from walls	sq.m	6.90
3	Clean removal of cement plaster from walls	sq.m	7.30

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
4	Clean removal of cement plaster from walls and racking out joints 20mm deep	sq.m	9.70
29	White washing and colour washing and distempering		
1	Thorough scrapping of old plastered surface	sq.m	4.00
2	Washing of plastered surface with soap, soda and water (or with soda, lime, brush and water)	sq.m	5.00
30	Painting, Wood Oiling, Tarring, Varnishing, Bee's Waxing etc		
1	Removing old paint from doors and windows by blow lamp and scrapping, including removal and refitting of shutters	sq.m	32.65
2	Removing old paint from doors and windows by scrapping and refitting of shutters	sq.m	13.75
3	Removing paint from doors, windows and wood works by manual labour	sq.m	9.35
4	Removing old paint from structural steel by blow lamp or sand paper	sq.m	19.55
5	Scrapping and removing old paint from structural steel by manual labour	sq.m	8.65
6	Removing old paint from iron surface with sand paper	sq.m	8.10
7	Repolishing the mosaic flooring including polishing stone and hire charges for polishing machine but excluding cost of electrical charges.	sq.m	19.25
31	Miscellaneous		
I.	Supplying & filling up the empty Cement gunny bags with sand, stitching them conveying the same to site and stacking as directed within a lead of 10m excluding cost of bags, jute, thread, needle, sand etc. (labour only)	Bag	8.10
ii.	Driving piles upto 15 cm dia in river bed	RM	25.60
iii.	Pointing the edge and driving bamboo /casurina/ eucalyptus piles into river bed for the first 1m depth below ground level	Each	21.85
iv.	Driving bamboo/ Casurina/ eucalyptus piles into ground beyond 1m depth from ground level. For every 1m (or) part thereof	RM	21.85

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
32	River Conservancy of Korambu Works		
v.	Brush wood bundles one metre girth and one metre long within an initial lead of 1.6 KM	One bundle	4.15
vi.	Extra for every additional lead of 1.6 KM (for the above item)	One bundle	0.49
vii.	Driving casurina piles into bed including scaffolding etc., complete	RM	10.60
viii.	Casurina walling pieces 40mm to 50mm diameter including fixing with nails and tying with ropes.	RM	14.80
33	Labour wrought and put up for Doors, Windows and Ventilators		
1	Labour wrought and put up in position of frames inclusive of fixing holdfasts for doors, windows and ventilators etc.	Cu.m	12980.00
2	Labour wrought and put up in position of shutters for fully panelled doors (external or internal) moulded panels including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1457.00
3	Labour wrought and put up in position of shutters for fully panelled doors internal five plywood panels including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1215.00
4	Labour wrought and put up in position of shutters for glazed and panelled doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1362.00
5	Labour wrought and put up in position of shutters for framed and planked doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1138.00

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
6	Labour wrought and put up in position of shutters for ledged and braced and planked doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sq.m	768.00
7	Labour wrought and put up in position of shutters for glazed windows including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1362.00
8	Labour wrought and put up in position of shutters for windows panelled including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	1467.00
9	Labour wrought and put up in position of shutters for windows, ledged, braced and planked doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification.	sq.m	768.00
10	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 drawings and standard specification.	sq.m	1215.00
11	Labour wrought and put up in position frames shutters for swing ventilators and fixed in position in accordance with standard drawings and standard specification.	sq.m	1135.00
12	Labour charges for fixing doors along with frames in position etc. complete(finished work)	sq.m	216.60
13	Labour charges for fixing windows and ventilators along with frames in position etc. complete	sq.m	271.70
14	Labour wrought and put up in position flush shutters for single leaf shutters.	sq.m	203.00
15	Labour wrought and put up in position flush shutters for Double leaf shutters	sq.m	313.00

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
16	Labour wrought and put up in position fly proof wire gauge shutters for doors, windows and ventilators	sq.m	728.00
17	Labour wrought and put up for providing teak wood weld mesh screen with frames 3"x3" (0.075mx0.075m)	sq.m	1017.00
18	Labour charges for fixing aluminium doors, windows and ventilators	sq.m	694.00
34	Breaking metals		
i.	Labour charges for breaking 40mm metal from departmental blasted stones	Cu.m	385.00
ii.	Labour charges for breaking 20mm metal from departmental blasted stones	Cu.m	574.00
iii.	Labour charges for breaking 50mm metal from departmental blasted stones	Cu.m	231.00
35	Cement Mortar		
i.	Grinding Mortar (Special Grinding lime)	Cu.m	349.00
ii.	Grinding Mortar (Ordinary Grinding lime)	Cu.m	266.00
iii.	Mixing Mortar – Cement by manual	Cu.m	110.00
iv.	Mixing Mortar- Cement by Machine Mixing	Cu.m	145.00
36	Metal & Iron works		
i.	Petty iron work for truss, straps etc. (Wrought & fixed) labour only	Kg	52.50
ii.	Iron works for trusses & record racks (labour only)	kg	48.50
iii.	Fixing in position mild steel grills for windows, ventilators, etc.	Kg	30.35
iv.	Fixing MS rods round/square for windows	Kg	28.15
v.	Fixing iron bars in windows and ventilators	Kg	28.15
37	Conveyance of excavated earth from the narrow street (width less than 3.75m) to stock yard at nearest place (up to a lead of 5.00Km) including Head load charges from 10 meters to 100 meters and conveyance charges.	Cum	121.50
38	Re-Conveyance of earth from the stock yard to the narrow street (width less than 3.75m) for refilling the trenches after laying the pipe line (up to a lead of 5.00Km) including Head load charges from 10 meters to 100 meters and conveyance charges.	Cum	121.50

Schedule Item No.	Description	Unit	Rates for 2022-23 in Rupees
39	Disposal of surplus earth including loading and conveyance within a distance of 5 km (basic cost of earth is zero) including loading charges and Conveyance Charges of 5 kms distance.	Cum	101.50
40	Lighting arrangements (maintenance works) with genset :	Per day	2050.00
	Hire charges for portable Genset 1.00 KVA with 2 Nos. of 150W flood light including all incidental charges, transportation, crew charges and fuel charges etc., complete.		
41	Hire charges for deploying earth moving machinery (JCB/Poclain) for earthwork including diesel, oil and labour charges etc., complete.		
a	JCB	Per Hour	784.00
b	Poclain	Per Hour	2050.00
42	Supply delivery of natural Pebbles filter media for Filter bed operation & sedimentary bore well of spherical in shape and allow even distribution in support bed with good flow. The media should be double washed, screened, kiln dried and classified into various sizes to meet specification including all incidental charges, conveyance, loading & unloading etc., as directed by the TWAD Board officers.		
a	Size : 5 mm to 20mm	Cum	4260.00
b	Size : 20 mm to 70 mm	Cum	3896.00

43. BARRICADING FOR PIPELINE WORKS FOR THE WSS / UGSS WORKS

SL. No	Description of work	Unit	TWAD Rate/m
i	Barricading work (Where, there is less traffic areas and broader roads etc.) for laying of pipe line using casurina poles at 1.50m center to center (8cm to 10cm dia and 1.80m height) vertical with horizontal poles in three rows including painting the vertical poles in the road facing sides with ready mix paint, tying the vertical and horizontal poles with coir rope including fixing charges and fixing 75mm dia reflectors including earth work excavation for fixing vertical posts and finally removing and stacking the materials safely for further use etc., complete and as directed by TWAD Board officers.	RM	53.00
ii	Barricading work (Where the lines are in narrow width of municipality area, busy streets like Market, Bus-stand and in the Highways etc.) for laying of pipe line using casurina poles at 1.50m center to center (8cm to 10cm dia. and 1.80m height) vertical with horizontal poles in two rows, painting the vertical poles in the road facing sides with ready mix paint, tying the vertical and horizontal poles with coir rope including supplying, delivery and fixing of GI sheet (0.90m x 0.8mm thick) in the horizontal poles and fixing 75mm dia. reflectors including earth work excavation for fixing vertical posts and finally removing and stacking the materials safely for further use etc., complete and as directed by TWAD Board officers.	RM	100.00

44. SHORING AND STRUTTING FOR THE WSS / UGSS WORKS

	<p>Shoring, and strutting with sheet piles of size width 400 mm x height of 3m x thickness of 9mm as per IS 2314-1986 by driving on both sides of the trench from Ground Level up to the required depth and connecting the above sheet piles by horizontal strutting with sheet piles at an interval of 1.0m, fixing the sheet piles by connecting the horizontal strutting with casurina poles of 8cm to 10cm dia. at 1.50m interval and including removing the sheet piles after the pipelines are laid, jointed, tested, and stacking it safely for other uses. It includes the cost of sheet piles and casurina poles including labour charges for erecting the sheet piles, driving the sheet piles, removing the sheet piles, fixing Casurina poles, etc., complete and all other incidental charges for the depths (i) 0-3mts.,(ii) 0-4mts.,(iii) 0-5mts., (iv) 0-6mts.,(v) 0-7mts. and (vi) 0-8mts.</p>		
a	0 to 3 m	RM	3010.81
b	0 to 4 m	RM	4076.88
c	0 to 5 m	RM	5165.57
d	0 to 6 m	RM	6233.03
e	0 to 7 m	RM	7320.33
f	0 to 8 m	RM	8517.09

45. RATES FOR TRENCHLESS TECHNOLOGY FOR PIPE LAYING WORK IN RAILWAY/NHAI/SH/NH CROSSINGS.

SL. No	Description	Unit	Rate in Rupees
i	Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), upto 5m depth in all soil including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 20 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/Canal crossing etc and driving the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 5m excluding the cost of MS pipes.		
a	For 200mm dia MS encasing pipe for various thickness	RM	9740.00
b	For 250mm dia MS encasing pipe for various thickness	RM	9840.00
c	For 300mm dia MS encasing pipe for various thickness	RM	9960.00
ii	Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), depth upto 5m in all soil including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 15 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following		

	size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/Canal crossing etc and driving the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 5m excluding the cost of MS pipes.		
a	For 350mm dia MS encasing pipe for various thickness	RM	11560.00
b	For 400mm dia MS encasing pipe for various thickness	RM	11810.00
c	For 450mm dia MS encasing pipe for various thickness	RM	12100.00
d	For 500mm dia MS encasing pipe for various thickness	RM	12310.00
e	For 600mm dia MS encasing pipe for various thickness	RM	12690.00
f	For 700mm dia MS encasing pipe for various thickness	RM	13700.00
g	For 800mm dia MS encasing pipe for various thickness	RM	14080.00
h	For 900mm dia MS encasing pipe for various thickness	RM	14430.00
iii	Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), depth upto 5m in all soil including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 10 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/Canal crossing etc and driving		

	the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 5m excluding the cost of MS pipes.		
a	For 1000mm dia MS encasing pipe for various thickness	RM	15940.00
b	For 1050mm dia MS encasing pipe for various thickness	RM	16330.00
c	For 1100mm dia MS encasing pipe for various thickness	RM	17590.00
d	For 1200mm dia MS encasing pipe for various thickness	RM	18940.00
e	For 1400mm dia MS encasing pipe for various thickness	RM	20420.00
f	For 1600mm dia MS encasing pipe for various thickness	RM	21950.00
g	For 1800mm dia MS encasing pipe for various thickness	RM	23700.00
h	For 2000mm dia MS encasing pipe for various thickness	RM	25510.00
i	For 2200mm dia MS encasing pipe for various thickness	RM	28390.00

46. REPLACEMENT OF UNDER GROUND UTILITIES (HSC PIPES, DISTRIBUTION SYSTEM & PUMPING MAIN PIPES, Etc.)

SL. No	Description	Unit	Rate in Rupees
i.	Replacement of Underground Utilities (GI Pipe) damaged during earthwork excavations for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of GI pipes, coupler, Union, jointing materials and required specials, cutting, threading, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	15mm Dia GI Pipe	1RM	517.51
b.	20mm Dia GI Pipe	1RM	555.48
c.	25mm Dia GI Pipe	1RM	669.81
d.	32mm Dia GI Pipe	1RM	780.48
e.	40mm Dia GI Pipe	1RM	882.11
f.	50mm Dia GI Pipe	1RM	1096.58
g.	65mm Dia GI Pipe	1RM	1648.13
h.	80mm Dia GI Pipe	1RM	1984.40
i.	100mm Dia GI Pipe	1RM	2758.70
j.	125mm Dia GI Pipe	1RM	3683.27
ii.	Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	15mm Dia PVC Pipe (10 KSC)	1RM	276.27

b.	20mm Dia PVC Pipe (10 KSC)	1RM	284.47
c.	25mm Dia PVC Pipe (10 KSC)	1RM	303.75
d.	32mm Dia PVC Pipe (10 KSC)	1RM	326.58
e.	40mm Dia PVC Pipe (10 KSC)	1RM	367.23
f.	50mm Dia PVC Pipe (10KSC)	1RM	369.79
g.	63mm Dia PVC Pipe (10KSC)	1RM	439.50
h.	75mm Dia PVC Pipe (10KSC)	1RM	504.40
i.	90mm Dia PVC Pipe (10KSC)	1RM	628.47
j.	110mm Dia PVC Pipe (10KSC)	1RM	906.28
k.	140mm Dia PVC Pipe (10KSC)	1RM	1307.01
l.	160mm Dia PVC Pipe (10KSC)	1RM	1587.28
m.	180mm Dia PVC Pipe (10KSC)	1RM	1983.40
n.	200mm Dia PVC Pipe (10KSC)	1RM	2528.27

	Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	50mm Dia PVC Pipe (6KSC)	1RM	326.07
b.	63mm Dia PVC Pipe (6KSC)	1RM	372.13
c.	75mm Dia PVC Pipe (6KSC)	1RM	420.50
d.	90mm Dia PVC Pipe (6KSC)	1RM	493.37
e.	110mm Dia PVC Pipe (6KSC)	1RM	680.71

f.	140mm Dia PVC Pipe (6KSC)	1RM	925.91
g.	160mm Dia PVC Pipe (6KSC)	1RM	1120.98
h.	180mm Dia PVC Pipe (6KSC)	1RM	1422.80
i.	200mm Dia PVC Pipe (6KSC)	1RM	1807.37
iv	Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	63mm Dia PVC Pipe (4KSC)	1RM	337.27
b.	75mm Dia PVC Pipe (4KSC)	1RM	369.90
c.	90mm Dia PVC Pipe (4KSC)	1RM	418.40
d.	110mm Dia PVC Pipe (4KSC)	1RM	578.08
e.	140mm Dia PVC Pipe (4KSC)	1RM	742.48
f.	160mm Dia PVC Pipe (4KSC)	1RM	883.64
g.	180mm Dia PVC Pipe (4KSC)	1RM	1132.97
h.	200mm Dia PVC Pipe (4KSC)	1RM	1383.70

v	Replacement of Underground Utilities (AC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with next available higher size PVC pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	80mm Dia AC Pipe	1RM	860.68

b.	100mm Dia AC Pipe	1RM	1049.06
c.	125mm Dia AC Pipe	1RM	1510.08
vi	Replacement of Underground Utilities (AC Pipe) damaged during Earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting , removal of slushy soil and replacing the pipeline with sound DI s/s pipe, including supply and delivery of DI s/s pipes, D/S collars, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	150mm Dia AC Pipe	1RM	3242.38
b.	200mm Dia AC Pipe	1RM	4029.60
c.	250mm Dia AC Pipe	1RM	4963.50
d.	300mm Dia AC Pipe	1RM	5920.84
e.	350mm Dia AC Pipe	1RM	7011.39
f.	400mm Dia AC Pipe	1RM	8178.06

vii	Replacement of Underground Utilities (HDPE Pipes) damaged during Earthwork excavations for pipe laying works including cost of additional earthwork excavation in all soils, including BT cutting, CC roads , removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of HDPE pipes, couplers, jointing materials and required specials, cutting, threading, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers.		
a.	50mm Dia HDPE Pipe	1RM	449.70
b.	63mm Dia HDPE Pipe	1RM	522.57
c.	75mm Dia HDPE Pipe	1RM	605.43
d.	90mm Dia HDPE Pipe	1RM	717.57
e.	110mm Dia HDPE Pipe	1RM	975.71

f.	125mm Dia HDPE Pipe	1RM	1115.91
g.	140mm Dia HDPE Pipe	1RM	1275.11
h.	160mm Dia HDPE Pipe	1RM	1510.11
i.	200mm Dia HDPE Pipe	1RM	2098.91



ABSTRACT

Water Resources Department – Operation of sand quarries and sale of sand in the Government depots by the Water Resources Department– Orders - Issued.

Water Resources (I.Spl.-2) Department

G.O (Ms) No.4

Dated : 06.01.2022,

பிலை வருடம், மார்கழி 22

திருவள்ளூர் ஆண்டு 2052

Read:

1. G.O. Ms No.325, Public Works (I.spl.2) Department, dated 21.12.2013.
2. G.O (Ms). No.183 Industries (MME.1) Department, dated 28.12.2017.
3. Minutes of the Review Meeting Chaired by Hon'ble Chief Minister on 08.11.2021.

ORDER:-

1 In the Government order first read above, the Government have issued orders to sell river sand at a cost of Rs. 400 /- per unit from Rs.300/- per unit in the State and the same is being adopted till date.

2. In the Government order second read above, the seigniorage charges for ordinary sand was revised as Rs. 120/m³ i.e., Rs.340.00 per unit.

3. Thiru. M.Thangavel and Thiru. Elephant G.Rajendran had filed writ petitions in W.P. (MD) No. 16884 and 14088 of 2020, respectively, before the Hon'ble Madurai Bench of Madras High Court. It was prayed in W.P.(MD)No. 14088 of 2020 to direct the respondents to enable only the general public to purchase river sand through "Tamil Nadu Sand Web Service Portal" on all working days.

The Division Bench of Madras High Court at Madurai Bench in W.P. (MD) Nos. 16884 & 14088 of 2020 in its Common order dated 17.03.2021 has passed, orders among the following others:-

"On the allegations made with respect to all the alleged collusion between the lorry owners and the officials, we make it clear that before effecting the sale , the respondents will have to satisfy that there is an approved plan produced by the applicant, namely, the intending purchaser to the satisfaction of the officials and based on the same alone permission will have to be granted".

4. During the meeting held by the Hon'ble Chief Minister to review the operation of sand quarries and sale of sand in the Government depots by the Water Resources Department, the following decisions were taken:

1. The SLP No 006215/2021 filed against the judgement of the Honourable Madurai Bench of Madras High Court dated 17.03.2021 in the WP(MD) No.16884 and 14088 of 2020 be withdrawn so as to comply with the above said orders.
2. The basic cost of sand to be fixed as Rs.1000 per unit.
3. For the pending quarries, necessary environmental clearances from the State Environmental Impact Assessment Authority may be expedited and follow-up action shall be taken up with Environment, Climate Change & Forest Department to get the environmental clearances at the earliest.
4. The sand customers can be facilitated to remit money in cash at the depots by establishing special extension counters of banks at all the Government sand depots.
5. Approved building plan shall be made mandatory at the time of booking river sand.
6. Registration number of any suitable vehicle convenient to the customer may be given at the time of booking and it will be verified / modified at the time of taking delivery in the Water Resources Department depot.
7. All the operations in the sand quarry and depot shall be monitored using IP / CCTV cameras with 24X7 live streaming and real time monitoring of all shunting vehicles with GPS and prefixed Geofence to prevent pilferage.
8. A centralized control room have to be established to monitor all the sand operation activities throughout the State.
9. The Income Tax application to be developed for the above purpose shall be user friendly and Web as well as mobile enabled.
10. Revenue Department, Geology and Mining Department, Tamil Nadu Pollution Control Board, Tamil Nadu Water Supply and Drainage Board and Police Department shall render their cooperation in selection of site, precise area approval, approving the mining plan, issuing consent to establish and operate and issuing the final proceedings for commencing the new quarries and assisting in all the operations along with the Water Resources Department, so that all the sand quarries function in a transparent manner.
11. Effective steps have to be taken to commence the new sand quarries and Government Depots within two months.
12. After implementing the above activities in Phase-I, additional facility of delivering the sand at doorsteps of consumer to be taken as Phase II by the Water Resources Department.

5. Based on the minutes of the meeting, the Government, after careful consideration, have decided to implement the following measures, so as to implement an effective sand sale system:-

- 1) The SLP No. 006215/2021 filed before the Hon'ble Supreme Court of India against the common order of the Honourable Madurai Bench of Madras High Court dated 17.03.2021 in W.P. (MD) No.16884 and 14088 of 2020, shall be withdrawn.
- 2) The cost of the sand at sand quarry site shall be fixed as **Rs.1000 per unit**.

- 3) 16 lorry quarries and 21 bullock cart sand quarries for which environmental clearance have been obtained shall be permitted to operate first and in the second batch 63 lorry quarries, 8 bullock cart sand quarries which are in various stages for getting environmental clearance will be permitted to operate as per the existing protocol.
- 4) All online applications made by the General Public from 8.00 am to 2.00 pm shall be exhausted first and then the Lorry Owners can book from 2.00 pm to 5.00 pm depending upon availability of the remaining sand.
- 5) Registration number of any suitable vehicle convenient to the customer shall be permitted, provided the buyer gives the details of the said vehicle at the time of booking. The customer is also allowed to change the vehicle at the time of taking delivery after verification of vehicle records.
- 6) The Hon'ble court have ordered that the respondents will have to satisfy that there is an approved plan produced by the applicant namely, the indenting purchaser to the satisfactions of the officials and based upon the same alone permission will have to be granted". Hence in view of the above mentioned direction of the Hon'ble High Court it has been decided that wherever the intended construction requires approved building plan, the same shall be verified.
- 7) The existing Information Technology Web/mobile enabled application (i.e TN Sand Application) shall be modified and updated for implementing the preference for public booking, etc.
- 8) Sand booking for public will be provided through Tamil Nadu e-Governance/ e-services such as TAC-TV, e-Kiosk, e-seva maiyam and also at the sand depot counter, so as to facilitate, easy access for online booking for the public who do not have internet connectivity.
- 9) The above services will be provided on payment of a reasonable service charge as decided by Engineer in Chief, Water Resources Department and Service Providers.
- 10) Special extension counters of banks shall be established at all the Government sand depots so as to facilitate the sand customers to remit the money in cash at the sand depots, If they so desire in addition to the existing online payment facility such as net banking, debit card, UPI facility.
- 11) The existing facilities like IP / CCTV cameras with 24X7 live streaming and real time monitoring of all shunting vehicles with GPS and prefixed Geofence will be strengthened in the established centralized control room in Chennai to prevent pilferage and effectively monitor all the quarrying operations throughout the State. After implementing the above activities in Phase-I, advance booking and additional facility of delivering the river sand at the doorsteps of consumers shall be taken up in Phase-II by the Water Resources Department. Steps shall also be taken to develop and deploy GIS enabled IT application in this regard and develop suitable protocol of door delivery of sand from the sand depots to the sand customers door.
- 12) Since sand quarry operation needs co-operation of various departments such as Mining, Police, TNPCB and Revenue the concerned District Collectors is directed to facilitate, Co-ordinate among various departments

and to monitor the sand quarries to be operated by Water Resources Department.

6. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, is directed to take necessary action to implement the order in para 5 above.

(BY ORDER OF THE GOVERNOR)

SANDEEP SAXENA
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT

To

The Engineer-in-Chief and Chief Engineer General),
Water Resources Department, Chennai-5.
All the Regional Chief Engineers, Water Resources Department.
The Commissioner, Geology and Mining, Guindy, Chennai-32.
All the District Collectors.
The Accountant General (A&E) Chennai-18.
The Accountant General (E&RSA) Chennai-18.
The Resident Audit Officer, O/o. the Principal Accountant
General (General and Social Sector Audit), Secretariat, Chennai-9.

Copy to

The Hon'ble Chief Minister's Office, Secretariat, Chennai-9.
The O/o the Hon'ble Minister for Water Resources, Secretariat, Chennai-9.
The Industries Department, Secretariat, Chennai-9.
The Finance (PW(II)) Department, Secretariat, Chennai- 9.
Stock file / Spare copy.

// FORWARDED BY ORDER //

S. Jesuvaran
6.1.2022
SECTION OFFICER

**Proceedings of the Engineer-in-Chief & Chief Engineer (Gl),
Water Resources Department, Chennai-600 005.**

Present: Er. K.Ramamoorthy, B.E., M.B.A.,
Engineer-in-Chief & Chief Engineer (Gl), WRD

Proc No. HDO / Sr.DO-1 / 22955 / 2022 / Dated: 01.03.2022

- Sub: Sand Quarrying Operation – Revision of cost of sand sale at Government Depots – Rate Approval requested - Regarding
- Ref: 1. G.O.Ms No. 135 PW (I.Spl.2) Dept., Dated: 13.06.2017.
2. G.O.Ms No. 4 PW (I.Spl.2) Dept., Dated: 06.01.2022.
3. The Superintending Engineer, Mining & Monitoring Circle, Chennai Letter No. AE/ F.21/ M&M/ dated: 23.02.2022
4. The Superintending Engineer, Middle Cauvery Basin Circle, Trichy Letter No. 186M / DO-2/ F.1733/ Sand Quarry/ 2022, dated: 28.02.2022

-oOo-

In the Government order first cited, the overhead charges such as *“loading and unloading charges, shunting charges, Rental charges of the depot and maintenance charges of the depot”* should be levied in addition to the basic cost of sand, if in the case of Sale of sand at Depot.


In the Government order second cited, the basic cost of sand at quarry has been refixed to Rs.1,000/- per unit and permitted to operate 16 lorry quarries and 21 bullock cart quarries at first instance.

Accordingly, the Superintending Engineer, Mining & Monitoring Circle, Chennai and the Superintending Engineer, Middle Cauvery Basin Circle, Trichy in their letter third & fourth cited has requested to refix the cost of sand for cart load and lorry load at quarry and specified Government depots.

Under the circumstances, the cost of sand for cart load and lorry loads at quarry site and at specified Government depots are hereby refixed as mentioned below. The Superintending Engineer and the Executive Engineers concerned are requested to adhere the norms stipulated in the Government order second cited scrupulously, while carrying out the sale process.

S.No	Lead ranges from quarry to depot	Sale price including GST @ 5%
1.	Cost of Sand at quarry site for cart load - per 0.25 Unit	Rs.350/-
2.	Cost of Sand at Specified Government Depots for a range of 0 - 25 km for cart load - per 0.25 Unit	Rs.700/-
3.	Cost of Sand at Specified Government Depots for a range of 25 - 50 km for cart load - per 0.25 Unit	Rs.800/-
4.	Cost of Sand quarried from Palar River (0 - 25 km range) at specified Government depots per lunit	Rs.3,150/-
5.	Cost of Sand quarried from other rivers (0 - 25 km range) at specified Government depots per lunit	Rs.2,650/-
6.	Cost of Sand quarried from other rivers (25 - 50 km range) at specified Government Depots per lunit	Rs.3,250/-

Encl: Calculation sheet Annexure -1 to 6


 Engineer-in-Chief &
 Chief Engineer (GI), WRD,
 Chennai -5.


 10/03/22

To

The Superintending Engineer, WRD,
Mining & Monitoring Circle,
Chepauk, Chennai - 600 005.

The Executive Engineer,
Mining & Monitoring Division,
Chennai, Villupuram, Trichy, Thanjavur & Madurai

Copy to the Superintending Engineer, Middle Cauvery Basin Circle, Trichy
for information and further necessary action.


Copy to the Superintending Engineer, Periyar Vaigai Basin Circle, Madurai
for information and further necessary action.

Copy to the Chief Engineer, Trichy Region for information and further
necessary action.

Copy to the Chief Engineer, Madurai Region for information and further

COST OF SAND FOR CART LOAD AT QUARRY

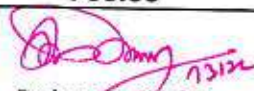
		Amount in Rs.
I.	Basic Cost of Sand - (per unit i.e., 2.83m³)	1000.00
III.	Quarry charges (per unit) Provision for Environmental Clearance processing fee, Formation of Katcha road and its Maintenance at quarry, Amenities to the quarry, Provision for CCTV at quarry, Provision for online charges, Water sprinklig for dust supression in Katcha roads, Labour to maintaining the sand quarry such as regulating the carts, Monitoring the entry and exit of carts at quarry, Stationaries, Thermal printer paper roll, Provision for unforeseen item and Contingencies for quarry.	284.00
	Sub Total	1284.00
	for 1Cart = 25 Cubic feet = 0.25 unit	321.00
	Say	321.00
	CGST 2.5 %	9.00
	SGST 2.5 %	9.00
	Cost of Sand Per Cart (25cft or 0.25unit)	339.00
	Rounded off	350.00


 Engineer-in-Chief &
 Chief Engineer (General), WRD,
 Chennai - 600 005


 01/03/22

COST OF SAND FOR CART LOAD AT DEPOT 0 -25KM


For 25 KM Conveyance of sand		Amount in Rs.
I.	Basic Cost of Sand - (per unit i.e., 2.83m³)	1000.00
II.	Cost of conveyance & loading (per unit) a. Excavation of sand & Loading Charges at quarry site (As per Revised Schedule of rate 2021-2022 Rate for Earthwork deploying Machinery - Bund formation for 1m ³ of sand - Rs.50.00, subtracting cost of breaking clods, consolidating and sectioning - Rs.5.75) = (50.00 - 5.75) = Rs.44.25 For 1 unit of sand = 44.25x2.83 = 125.23 b. Lead charges for 25 Km (Conveyance as per Revised Schedule of Rate 2021-2022 for 1m ³ of sand = Rs. 247.50) For 1 unit of sand = 247.50*2.83 = 700.43 c. Loading charges at sand depot to Consumer Vehicle (As per Revised Schedule of rate 2021-2022, for 1m ³ of sand Rs. 42.55) For 1 unit of sand=42.55 x 2.83m ³ = 120.42	946.08
III.	Quarry charges (per unit)	284.00
IV	Depot charges (per unit) Provision of Rest shed at depot, track formation, Sprinkling of water, provision for Fencing, Drop gate, water supply, Electrical Installation, Furniture arrangements and Sanitary arrangements, Provision for CCTV Camera and Public Audio system, Safety equipments, Provision for Maintaining the Depot Such as regulating the traffic, Monitoring the entry and exit of vehicles etc.,at depot, Provision for Online payment charges, Lease Rent, current consumption charges, Stationeries, Maintenance of computer and printer, and	254.00
	Sub Total :	2484.08
	for 1Cart = 25 Cubic feet = 0.25 unit :	621.02
	say :	621.00
	CGST 2.5 % :	16.00
	SGST 2.5 % :	16.00
	Cost of Sand Per Cart (25cft or 0.25unit) :	653.00
	Rounded off :	700.00


Engineer-in-Chief &
Chief Engineer (General), WRD,
Chennai - 600 005


01/03/22

COST OF SAND FOR CART LOAD AT DEPOT 25 - 50KM


From 25 KM to 50 KM Conveyance of sand		Amount in Rs.
I.	Cost of Sand - (per unit i.e., 2.83m³)	1000.00
II.	Cost of conveyance & loading (per unit) a. Excavation of sand & Loading Charges at quarry site (As per Revised Schedule of rate 2021-2022 Rate for Earthwork deploying Machinery - Bund Formation for 1m ³ of sand - Rs.50.00, subtracting cost of breaking clods, consolidating and sectioning - Rs.5.75) = (50.00 - 5.75) = Rs.44.25 For 1 unit of sand = 44.25x2.83 = 125.23 b. Lead charges for 50 Km (Conveyance as per Revised Schedule of Rate 2021-2022 for 1m ³ of sand = Rs. 447.40) For 1 unit of sand = 447.40*2.83 = 1266.14 c. Loading charges at sand depot to Consumer Vehicle (As per Revised Schedule of rate 2021-2022, for 1m ³ of sand Rs. 42.55) For 1 unit of sand=42.55 x 2.83m ³ = 120.42	1511.79
III.	Quarry charges (per unit) Provision for Fixing of Boundary Pillars at quarry, Provision for Formation of Katcha Road and its maintenance at quarry, Protection Arrangements at quarry, Temporary Rest shed, Toilet and Sanitary arrangements, water supply arrangements, Furniture arrangements, Electrical arrangements including Deposit at quarry, Online payment for Monitoring and tracking the vehicles etc., at quarry, labour for Maintaining the sand quarry Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at quarry, current consumption charges, Stationeries at quarry, Provision for Safety equipments, Fixing of GPS tracking System and Computers, CCTV camera arrangements at quarry. Provision for Preparation of Mining Plan, Processing charges for SEIAA/DEIAA, Consent fees for TNPCB, Maintenance of flora fauna, Test charges for air & water, Video, Photo and Documentation charges, EMP Cost, Awareness program, Advertisement charges at quarry.	284.00
IV.	Depot charges (per unit) Provision of Rest shed at depot, track formation, Sprinkling of water, provision for Fencing, Drop gate, water supply, Electrical Installation, Furniture arrangements and Sanitary arrangements, Provision for CCTV Camera and Public Audio system, Safety equipments, Provision for Maintaining the Depot Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at depot, Provision for Online payment charges, Lease Rent, current consumption charges, Stationeries, Maintenance of computer and printer, and Documentation charges at Depot.	254.00
	Sub Total	3049.79
	for 1 Cart = 25 Cubic feet = 0.25 unit	762.45
	Say	762.00
	CGST 2.5 %	19.00
	SGST 2.5 %	19.00
	Cost of Sand Per Cart (25cft or 0.25unit)	800.00


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 Chennai - 600 005


 10/10/22

COST OF SAND AT SAND DEPOT (FOR 1 UNIT)


For 25 KM Conveyance of sand		Amount in Rs.
I.	Basic Cost of Sand - (per unit i.e., 2.83m³)	1000.00
II.	Cost of conveyance & loading (per unit) a. Excavation of sand & Loading Charges at quarry site (As per Revised Schedule of rate 2021-2022 Rate for Earthwork excavation in OS soil - Rate for 1m ³ of sand Rs.64.50) For 1 unit of sand=64.50 x 2.83m ³ = 182.54 b. Head load charges:(per unit) from 10m to 100m (61.80 x 2.83) = 174.90 from 100m to 150m (48.30 x 2.83) = 136.69 c. Loading charges from temporary depot to shunting vehicles (42.55 x 2.83) = 120.42 d. Lead charges for 25 Km (Conveyance as per Revised Schedule of Rate 2021-2022 for 1m ³ of sand = Rs. 247.50) For 1 unit of sand = 247.50*2.83 = 700.43 e. Loading charges at sand depot to Consumer Vehicle (As per Revised Schedule of rate 2021-2022, for 1m ³ of sand Rs. 42.55) For 1 unit of sand=42.55 x 2.83m ³ = 120.42	1435.40
III.	Quarry charges (per unit) Provision for Fixing of Boundary Pillars at quarry, Provision for Formation of Katcha Road and its maintenance at quarry, Protection Arrangements at quarry, Temporary Rest shed, Toilet and Sanitary arrangements, water supply arrangements, Furniture arrangements, Electrical arrangements including Deposit at quarry, Online payment for Monitoring and tracking the vehicles etc., at quarry, labour for Maintaining the sand quarry Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at quarry, current consumption charges, Stationeries at quarry, Provision for Safety equipments, Fixing of GPS tracking System and Computers, CCTV camera arrangements at quarry. Provision for Preparation of Mining Plan, Processing charges for SEIAA/DEIAA, Consent fees for TNPCB, Maintenance of flora fauna, Test charges for air & water, Video, Photo and Documentation charges, EMP Cost, Awareness program, Advertisement charges at quarry.	284.00
IV	Depot charges (per unit) Provision of Rest shed at depot, track formation, Sprinkling of water, provision for Fencing, Drop gate, water supply, Electrical Installation, Furniture arrangements and Sanitary arrangements, Provision for CCTV Camera and Public Audio system, Safety equipments, Provision for Maintaining the Depot Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at depot, Provision for Online payment charges, Lease Rent, current consumption charges, Stationeries, Maintenance of computer and printer, and Documentation charges at Depot.	254.00
	Sub Total :	2973.40
	say :	2974.00
	CGST 2.5 % :	74.35
	SGST 2.5 % :	74.35
	Total :	3122.70
	Cost of Sand / unit :	3123.00
	Rounded Off :	3150.00


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 01/02/22

COST OF SAND AT SAND DEPOT (FOR 1 UNIT)

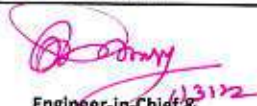
For 25 KM Conveyance of sand		Amount in Rs.
I.	Basic Cost of Sand - (per unit i.e., 2.83m³)	1000.00
II.	Cost of conveyance & loading (per unit)	
	a. Excavation of sand & Loading Charges at quarry site (As per Revised Schedule of rate 2021-2022 Rate for Earthwork deploying Machinery for 1m ³ of sand - Rs.50.00, subtracting cost of breaking clods, consolidating and sectioning - Rs.5.75) = (50.00 - 5.75) = Rs.44.25 For 1 unit of sand = 44.25x2.83 = 125.23	
	b. Lead charges for 25 Km (Conveyance as per Revised Schedule of Rate 2021-2022 for 1m ³ of sand = Rs. 247.50) For 1 unit of sand = 247.50*2.83 = 700.43	946.08
	c. Loading charges at sand depot to Consumer Vehicle (As per Revised Schedule of rate 2021-2022, for 1m ³ of sand Rs. 42.55) For 1 unit of sand=42.55 x 2.83m ³ = 120.42	
III.	Quarry charges (per unit) Provision for Fixing of Boundary Pillars at quarry, Provision for Formation of Katcha Road and its maintenance at quarry, Protection Arrangements at quarry, Temporary Rest shed, Toilet and Sanitary arrangements, water supply arrangements, Furniture arrangements, Electrical arrangements including Deposit at quarry, Online payment for Monitoring and tracking the vehicles etc., at quarry, labour for Maintaining the sand quarry Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at quarry, current consumption charges, Stationeries at quarry, Provision for Safety equipments, Fixing of GPS tracking System and Computers, CCTV camera arrangements at quarry. Provision for Preparation of Mining Plan, Processing charges for SEIAA/DEIAA, Consent fees for TNPCB, Maintenance of flora fauna, Test charges for air & water, Video, Photo and Documentation charges, EMP Cost, Awareness program, Advertisement charges at quarry.	284.00
IV	Depot charges (per unit) Provision of Rest shed at depot, track formation, Sprinkling of water, provision for Fencing, Drop gate, water supply, Electrical Installation, Furniture arrangements and Sanitary arrangements, Provision for CCTV Camera and Public Audio system, Safety equipments, Provision for Maintaining the Depot Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at depot, Provision for Online payment charges, Lease Rent, current consumption charges, Stationeries, Maintenance of computer and printer, and Documentation charges at Depot.	254.00
	Sub Total :	2484.08
	say :	2484.00
	CGST 2.5 % :	62.10
	SGST 2.5 % :	62.10
	Total :	2608.20
	Cost of Sand / unit (Say) :	2609.00
	Rounded Off :	2650.00


**Engineer-in-Chief &
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COST OF SAND AT SAND DEPOT (FOR 1 UNIT)

From 25 KM to 50 KM Conveyance of sand		Amount in Rs.
I.	Cost of Sand - (per unit i.e., 2.83m³)	: 1000.00
II.	Cost of conveyance & loading (per unit) a. Excavation of sand & Loading Charges at quarry site (As per Revised Schedule of rate 2021-2022 Rate for Earthwork deploying Machinery for 1m ³ of sand - Rs.50.00, subtracting cost of breaking clods, consolidating and sectioning - Rs.5.75) = (50.00 - 5.75) = Rs.44.25 For 1 unit of sand= 44.25x2.83 = 125.23 b. Lead charges for 50 Km (Conveyance as per Revised Schedule of Rate 2021-2022 for 1m ³ of sand = Rs. 447.40) For 1 unit of sand = 447.40*2.83 = 1266.14 c. Loading charges at sand depot to Consumer Vehicle (As per Revised Schedule of rate 2021-2022, for 1m ³ of sand Rs. 42.55) For 1 unit of sand=42.55 x 2.83m ³ = 120.42	: 1511.79
III.	Quarry charges (per unit) Provision for Fixing of Boundary Pillars at quarry, Provision for Formation of Katcha Road and its maintenance at quarry, Protection Arrangements at quarry, Temporary Rest shed, Toilet and Sanitary arrangements, water supply arrangements, Furniture arrangements, Electrical arrangements including Deposit at quarry, Online payment for Monitoring and tracking the vehicles etc., at quarry, labour for Maintaining the sand quarry Such as regulating the traffic, Monitoring the entry and exit of vehicles etc., at quarry, current consumption charges, Stationeries at quarry, Provision for Safety equipments, Fixing of GPS tracking System and Computers, CCTV camera arrangements at quarry. Provision for Preparation of Mining Plan, Processing charges for SEIAA/DEIAA, Consent fees for TNPCB, Maintenance of flora fauna, Test charges for air & water, Video, Photo and Documentation charges, EMP Cost, Awareness program, Advertisement charges at quarry.	: 284.00
IV.	Depot charges (per unit) Provision of Rest shed at depot, track formation, Sprinkling of water, provision for Fencing, Drop gate, water supply, Electrical Installation, Furniture arrangements and Sanitary arrangements, Provision for CCTV Camera and Public Audio system, Safety equipments, Provision for Maintaining the Depot Such as regulating the traffic, Monitoring the entry and exit of vehicles etc.,at depot, Provision for Online payment charges, Lease Rent, current consumption charges, Stationeries, Maintenance of computer and printer, and Documentation charges at Depot.	: 254.00
	Sub Total	: 3049.79
	Say	: 3050.00
	CGST 2.5 %	: 76.25
	SGST 2.5 %	: 76.25
	Total	: 3202.50
	Cost of Sand / unit (say)	: 3203.00
	Rounded Off	: 3250.00


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