



**STANDARD SCHEDULE OF RATES
FOR THE YEAR 2015-2016**

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**PROCEEDING OF THE MANAGING DIRECTOR, TWAD BOARD,
HEAD OFFICE, CHEPAUK, CHENNAI -5**

**PRESENT: THIRU C.VIJAYARAJ KUMAR, I.A.S.,
MANAGING DIRECTOR**

Proc.No. 5933/SDO.4/COM/2015/dt.18.11.2015

Sub : TWAD Board-Schedule of Rates for 2015-16 – State Level
Technical Committee - Rates finalized – Communicated –
reg.

Ref: 1. Managing Director, TWAD Board, Chennai-5. Proc.No.6682/
SDO.4 / COM / 2014 / dt. 30.10.2014.
2. Minutes of the State Level Technical Committee meeting
held on 04.11.2015 at TWAD Board, Head Office, Chennai.5

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In the reference first cited, a copy of the approved Schedule of Rates of TWAD Board for the year 2014-15 was communicated to all the Chief Engineers, Superintending Engineers, Executive Engineers of TWAD Board for adoption.

Necessary proposals were called for, for the revision of rates for adoption during 2015-16. The proposals received were placed before the State Level Technical Committee meeting held on 04.11.2015 at TWAD Board, Head Office for discussion and taking decision. The State Level Technical Committee after detailed discussion approved the proposals with certain recommendations.

Based on the recommendations of State Level Technical Committee a draft Schedule of Rates for 2015-16 were prepared and approved by the Committee.

The copy of the approved Schedule of Rates of TWAD Board for the year 2015-16 is communicated to all the Chief Engineers, Superintending Engineers and Executive Engineers of TWAD Board for adoption from 01.08.2015 onwards.

The Chief Engineers, Superintending Engineers and Executive Engineers are requested to acknowledge the receipt of this proceeding along with the enclosures.

Encl : One booklet of TWAD Board
Schedule of Rates for 2015-16.

**Sd./-
Managing Director
TWAD Board, Chennai.5.**

To
All the Chief Engineers/Superintending Engineers/Executive Engineers of TWAD Board.
All the Joint Chief Engineers of Head Office, TWAD Board, Chennai.5

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**TAMILNADU WATER SUPPLY AND DRAINAGE BOARD STANDARD
SCHEDULE OF RATES FOR THE YEAR 2015–2016**

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GENERAL NOTES

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I. 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, such as Road works, Water Supply, Drainage etc., 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.

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 Chennai Corporation limit & belt area of 32 km around 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. 5 times over the basic rates for earthwork excavation for both rural and urban areas is allowed **for putting trial pits.**
- 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** 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 work, 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 work 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 work, 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 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) **Rates of works** includes the labour for earthwork, refilling foundation, dismantling, jungle clearance, head load etc. also where human labour alone is involved.
- iii) The percentage increase provided for the materials are applicable **only for the materials which are quarried or manufactured locally in the specified area**.
- iv) The percentage increase provided for **Rates of Works** are allowable only on the items where human labour alone is involved.
- v) The percentage increase provided for **Conveyance Charges** are allowable for the distance covered in the specified area/ Special Tract only.
- vi) 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.
- vii) 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.

10. LEAD

District-wise average lead may be approved by the concerned Chief Engineers based on the approved quarry by the PWD.

**STATEMENT SHOWING THE EXTRA PERCENTAGE ALLOWABLE AS PER
GENERAL NOTE TO SCHEDULE OF RATES FOR THE YEAR 2015-2016**

Sl. No.	Area	PERCENTAGE EXTRA ALLOWABLE ON				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head Load
1	For works in Chennai Corporation limits and belt area of 32 KM around 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%
v	For works in Western Ghats of Madurai, Virudhunagar, Coimbatore, Tirunelveli and Kanyakumari Districts.	20%	20%	20%	—	20%

Sl. No.	Area	PERCENTAGE EXTRA ALLOWABLE ON				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head Load
	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, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatty and Thuthampatti in Sivagangai District.	40%	25%	40%	—	40%

Sl. No.	Area	PERCENTAGE EXTRA ALLOWABLE ON				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head Load
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, Kasvar, 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%	-	-	-	-

RATES FOR LABOUR

TWAD BOARD RATES FOR LABOUR

Schedule Item No.	Description	Unit	Rate in Rupees
1	Driller	Day	419.00
2	Assistant Driller	Day	344.00
3	Special heavy labour for driving sheet pile	Day	419.00
4	Boring Attendant	Day	306.00
5	Water Meter Reader	Day	292.00
6	Helper for Rig	Day	306.00
7	a. Electrician with LEE/DEE and 'C' certificate	Day	535.00
	b. Electrician with LEE/ DEE	Day	512.00
	c. Electrician with ITI and 'C' Certificate	Day	459.00
	d. Electrician with ITI 'and B' Certificate	Day	419.00
	e. Electrician with ITI	Day	419.00
8	a. Pump Operator with ITI	Day	419.00
	b. Pump Operator without ITI	Day	356.00
9	Laboratory Attender SSLC/ 10th Std passed	Day	292.00
10	a. Filter Bed Operator with D.M.E.	Day	512.00
	b. Filter Bed Operator with ITI	Day	419.00
	c. Filter Bed operator without I.T.I.	Day	356.00
11	Cleaner for Treatment Unit, Pump and vehicles	Day	292.00
12	Boring Mechanic for Hand Boring set	Day	356.00
13	Turn Cock (Experience in pipe line Operation and maintenance)	Day	292.00
14	Fitter (Pipe laying / Bar bending) I Class	Day	392.00
15	Fitter (Pipe laying / Bar bending) II Class	Day	364.00
16	Sewer Cleaner	Day	292.00
17	Store Attender SSLC /10th Std Passed	Day	292.00
18	Divers and Well Sinkers	Day	535.00
19	Hammer Man (Geophysical survey)	Day	292.00
20	Geological Assistant	Day	429.00
21	Maintenance Assistant	Day	306.00
22	Plant Operator, SSLC passed with 3 years experience	Day	344.00
23	Reverse Osmosis (R.O.) Plant Operator SSLC passed with 3 years experience	Day	419.00
24	Mechanic with ITI	Day	419.00
25	a. Carpenter I Class	Day	441.00
	b. Carpenter II Class	Day	404.00
26	a. Cleaner I Gr.	Day	236.00
	b. Cleaner II Gr.	Day	223.00
27	a. Fitter I Class	Day	399.00
	b. Fitter II Class	Day	372.00

Schedule Item No.	Description	Unit	Rate in Rupees
28	Floor Polisher	Day	348.00
29	Gardener	Day	264.00
30	Head Mazdoor for Well sinking	Day	292.00
31	a. Driver (Light duty)	Day	348.00
	b. Driver (Heavy duty)	Day	372.00
32	Jumper Mazdoor	Day	264.00
33	a. Maistry, Road Inspector & Work Inspector	Day	336.00
	b. Maistry, Road Inspector & Work Inspector (Degree holder)	Day	372.00
34	a. Mason for Brick Work - I Class	Day	451.00
	b. Mason for Brick Work - II Class	Day	404.00
35	a. Mason for Stone Work - I Class	Day	451.00
	b. Mason for Stone Work - II Class	Day	404.00
36	a. Mazdoor Category I	Day	282.00
	b. Mazdoor Category II	Day	255.00
	c. Head Mazdoor	Day	292.00
37	a. Moplah - I Class	Day	347.00
	a. Moplah - II Class	Day	320.00
38	a. Painter/Varnisher-I Class	Day	361.00
	b. Painter/Varnisher-II Class	Day	336.00
39	Pile Driver	Day	320.00
40	a. Plumber I Class	Day	392.00
	b. Plumber II Class	Day	364.00
41	Pump Driver	Day	292.00
42	a. Stone cutter- I Class	Day	347.00
	b. Stone cutter- II Class	Day	320.00
43	a. Welder/ Bracer - I Class	Day	347.00
	b. Welder/ Bracer - II Class	Day	320.00
44	Well sinking Diver working with Helmet (above two metres depth of water)	Day	404.00
	Technical Assistant		
45	a. Technical Assistant Gr.I (BE passed)	Day	579.00
	b. Technical Assistant- Gr.II (Diploma in Engg. Passed/ B.E. failed/ Degree in Geology for ground water works)	Day	521.00
	c. Technical Assistant Gr.III (Diploma in Engg. Failed / ITI (Civil) passed)	Day	441.00
46	a. Laboratory Assistant. Gr.I (Post Graduate in Science)	Day	441.00
	b. Laboratory Assistant. Gr.II (Degree in Science/ Degree in Geology for ground water)	Day	404.00

Schedule Item No.	Description	Unit	Rate in Rupees
	c. Laboratory Assistant Grade III (with Degree qualification to work as works clerk)	Day	364.00
47	a. Mazdoor employed for Geological mapping	Day	282.00
	b. Mazdoor employed for Pitting, Trenching, Sampling and Drilling works	Day	282.00
	c. Mazdoor employed for Geophysical Investigation works	Day	282.00
	d. Head Mazdoor to supervise exploratory works	Day	299.00
48	Mixer Operator (including concrete mixer)	Day	308.00
49	Mixer Driver	Day	292.00
50	Compressor Operator	Day	308.00
51	Computer Operator		
	a. Gr.I [B.E. (Computer Science)/ M.Sc., (Computer Science)]	Day	579.00
	b. Gr.II [B.Sc., (Computer Science)/ Diploma in Computer Science]	Day	521.00
52	Stone & Crusher Operator	Day	308.00
53	Heavy Mazdoor	Day	308.00
54	Wireman Grade I/ Electrician Grade I	Day	393.00
55	Wireman Grade II/ Electrician Grade II	Day	372.00
56	Electrical Helper	Day	280.00
57	Laboratory Attendant	Day	250.00
58	Electrical Maistry	Day	429.00
59	Axe Mazdoor	Day	264.00
60	Blacksmith - 1st Class	Day	348.00
61	Blacksmith - 2nd Class	Day	320.00
62	Boat Mazdoor	Day	292.00
63	Bullocks pair with driver (with bandy)	Day	521.00
64	Bullocks single with driver (with bandy)	Day	376.00
65	Caulker	Day	292.00
66	Ferry Mazdoor	Day	292.00
67	Hammer Mazdoor	Day	280.00
68	Mechanic - 1st Class	Day	348.00
69	Mechanic - 2nd Class	Day	320.00
70	Navagonies or Javali Man - 1st Class	Day	292.00
71	Sawyer	Day	320.00
72	Smith 1st Class	Day	347.00
73	Smith 2nd Class	Day	320.00
74	Sprayer Mazdoor (for bitumen, tar etc.,)	Day	264.00
75	Syrang-1st Class	Day	347.00
76	Syrang-2 nd Class	Day	320.00

Schedule Item No.	Description	Unit	Rate in Rupees
77	Thatcher	Day	280.00
78	Tinker 1 st Class	Day	280.00
79	Tinker 2 nd Class	Day	264.00
80	Turner 1 st Class	Day	320.00
81	Turner 2 nd Class	Day	292.00
82	Time Keeper 1st Class	Day	347.00
83	Time Keeper 2nd Class	Day	320.00
84	Well Diver for removing silt - 1 st Class	Day	347.00
85	Well Diver for removing silt - 2nd Class	Day	320.00
86	Well sinker - 1st Class	Day	392.00
87	Well sinker - 2nd Class	Day	364.00
88	Wodder	Day	292.00
89	Cinema Operator (ITI Passed)	Day	364.00
90	B.Sc., (Agriculture) Passed	Day	521.00
91	Irrigation Community Organiser Grade I [B.E(Agri) passed/B.Sc.,(Agri)Passed/PG (Geology) & Rural Development]	Day	558.00
92	Irrigation Community Organiser Grade II [B.E(Agri) failed / B.Sc.,(Agri)failed /Diploma in Agri. Passed]	Day	465.00
93	Heat Master Operator	Day	292.00
94	Raker	Day	292.00
95	Lift Operator	Day	336.00
96	Sound Service Operator	Day	280.00

RATES FOR MATERIALS

1.0 PVC PIPE WITH EXCISE DUTY AS PER IS 4985 / 2000

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
I	4KSC					
1	63mm	Metre	57.00	57.00	55.50	
2	75mm	Metre	81.00	81.00	78.50	
3	90mm	Metre	113.00	113.00	109.50	
4	110mm	Metre	163.00	163.00	158.00	
5	125mm	Metre	265.00	265.50	258.50	
6	140mm	Metre	268.00	268.50	259.50	
7	160mm	Metre	343.00	343.50	332.00	
8	180mm	Metre	434.00	434.50	420.00	
9	200mm	Metre	533.00	534.00	516.00	
10	225mm	Metre	718.00	719.00	696.50	
11	250mm	Metre	880.00	881.00	853.50	
12	280mm	Metre	1115.00	1116.50	1082.00	
13	315mm	Metre	1423.00	1425.00	1381.00	
II	6KSC					
1	50mm	Metre	52.00	52.00	50.50	
2	63mm	Metre	82.00	82.00	79.50	
3	75mm	Metre	115.00	115.00	111.50	
4	90mm	Metre	163.00	163.00	158.00	
5	110mm	Metre	234.00	234.50	226.50	
6	125mm	Metre	389.00	389.50	379.00	
7	140mm	Metre	380.00	380.50	367.50	
8	160mm	Metre	484.00	484.50	468.00	
9	180mm	Metre	624.00	625.00	604.00	
10	200mm	Metre	765.00	766.00	740.00	
11	225mm	Metre	1043.00	1044.50	1012.00	
12	250mm	Metre	1306.00	1307.50	1267.00	
13	280mm	Metre	1634.00	1636.00	1585.50	
14	315mm	Metre	2082.00	2084.50	2020.50	
III	10KSC					
1	50mm	Metre	82.00	82.00	79.50	
2	63mm	Metre	127.00	127.00	123.00	
3	75mm	Metre	180.00	180.50	174.50	
4	90mm	Metre	241.00	241.50	233.00	
5	110mm	Metre	385.00	385.50	373.00	
6	125mm	Metre	533.00	533.50	517.50	
7	140mm	Metre	620.00	621.00	600.50	
8	160mm	Metre	806.00	807.00	781.00	
9	180mm	Metre	1072.00	1073.50	1040.00	
10	200mm	Metre	1269.00	1271.00	1229.50	
11	225mm	Metre	1659.00	1661.00	1609.00	
12	250mm	Metre	2065.00	2068.00	2003.50	
13	280mm	Metre	2586.00	2589.50	2509.00	
14	315mm	Metre	3280.00	3284.50	3182.50	

Note : The rates are inclusive of all taxes, duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise Duty-12.50%, VAT-5%.

1.1 PVC PIPE WITHOUT EXCISE DUTY AS PER IS 4985/2000

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
I	4KSC					
1	63mm	Metre	51.00	51.00	49.50	
2	75mm	Metre	72.00	72.00	70.00	
3	90mm	Metre	101.00	101.00	98.00	
4	110mm	Metre	144.00	144.00	139.50	
5	125mm	Metre	236.00	236.50	230.00	
6	140mm	Metre	238.00	238.50	230.50	
7	160mm	Metre	304.00	304.50	294.50	
8	180mm	Metre	385.00	385.50	372.50	
9	200mm	Metre	474.00	474.50	459.00	
10	225mm	Metre	639.00	640.00	620.00	
11	250mm	Metre	783.00	784.00	759.50	
12	280mm	Metre	993.00	994.50	963.50	
13	315mm	Metre	1266.00	1267.50	1229.00	
II	6KSC					
1	50mm	Metre	46.00	46.00	44.50	
2	63mm	Metre	72.00	72.00	70.00	
3	75mm	Metre	101.00	101.00	98.00	
4	90mm	Metre	144.00	144.00	139.50	
5	110mm	Metre	207.00	207.50	200.50	
6	125mm	Metre	346.00	346.50	337.50	
7	140mm	Metre	338.00	338.50	327.00	
8	160mm	Metre	451.00	451.50	437.00	
9	180mm	Metre	555.00	556.00	537.00	
10	200mm	Metre	680.00	681.00	658.00	
11	225mm	Metre	928.00	929.00	900.00	
12	250mm	Metre	1162.00	1163.50	1127.50	
13	280mm	Metre	1454.00	1456.00	1411.00	
14	315mm	Metre	1853.00	1855.50	1798.50	
III	10KSC					
1	50mm	Metre	73.00	73.00	71.00	
2	63mm	Metre	113.00	113.00	109.50	
3	75mm	Metre	160.00	160.00	155.00	
4	90mm	Metre	212.50	213.00	205.50	
5	110mm	Metre	343.00	343.50	332.50	
6	125mm	Metre	475.00	475.50	461.50	
7	140mm	Metre	552.00	553.00	535.00	
8	160mm	Metre	717.00	718.00	694.50	
9	180mm	Metre	954.00	955.50	925.50	
10	200mm	Metre	1130.00	1131.50	1095.00	
11	225mm	Metre	1477.00	1479.00	1432.50	
12	250mm	Metre	1838.00	1840.50	1783.00	
13	280mm	Metre	2302.00	2305.00	2233.50	
14	315mm	Metre	2919.00	2923.00	2832.50	

Note : The rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.

1.2 PVC CASING PIPE with Excise Duty AS PER IS 12818 / 2010

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
1	150mm CS	Metre	657.50	658.50	639.50	
2	150mm CM	Metre	846.00	847.00	822.50	
3	150mm RS	Metre	978.00	979.00	954.00	
4	200mm CS	Metre	1200.00	1201.50	1167.50	
5	200mm CM	Metre	1545.50	1547.50	1503.00	
6	200mm RS	Metre	1785.50	1787.50	1742.00	

Note : The rates are inclusive of all taxes, duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise Duty-12.50%, VAT-5%.

1.3 PVC CASING PIPE without Excise Duty AS PER IS 12818 / 2010

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
1	150mm CS	Metre	587.00	587.50	571.00	
2	150mm CM	Metre	742.00	743.00	721.00	
3	150mm RS	Metre	873.50	874.50	852.00	
4	200mm CS	Metre	1071.50	1073.00	1043.00	
5	200mm CM	Metre	1346.50	1348.00	1308.50	
6	200mm RS	Metre	1595.00	1596.50	1556.50	

Note : The rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.

CS - Casing Shallow depth up to 80m

CM - Casing Medium depth 81m to 250m

RS - Ribbed screen pipe

1.4a UPVC- non pressure pipes as per IS 15328/2003

SI No.	Description	Unit	Rate for 2015- 16in Rupees	
			With Excise duty	Without Excise duty
I	SN8-SDR 34(S 16.5)			
1	110mm	Per Metre	245.00	220.00
2	125mm	Per Metre	346.00	318.00
3	160mm	Per Metre	526.00	470.00
4	200mm	Per Metre	828.00	739.00
5	250mm	Per Metre	1320.00	1223.00
6	315mm	Per Metre	2094.00	1936.00
7	400mm	Per Metre	3367.00	3109.00
II	SN4-SDR 41(S 20)			
1	125mm	Per Metre	295.00	235.00
2	160mm	Per Metre	450.00	318.00
3	200mm	Per Metre	691.00	505.00
4	250mm	Per Metre	1124.00	790.00
5	315mm	Per Metre	1762.00	1223.00
6	400mm	Per Metre	2838.00	1936.00
III	SN2-SDR 51(S 25)			
1	160mm	Per Metre	361.00	323.00
2	200mm	Per Metre	553.00	494.00
3	250mm	Per Metre	901.00	833.00
4	315mm	Per Metre	1426.00	1316.00
5	400mm	Per Metre	2276.00	2104.00

Note : The above rates are inclusive of all taxes , duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50% and VAT at 5%.

1.4b UPVC- Column Pipe

Supply and delivery of UPVC Columnpipe cristal coupler type, screen pipe.

SI.No.	Description	Unit	Rate for 2015 -16 in Rupees
1	25mm	Per Metre	71.00
2	32mm	Per Metre	114.00
3	40mm	Per Metre	150.00
4	50mm	Per Metre	242.00
5	65mm	Per Metre	314.00
6	80mm	Per Metre	437.00
7	100mm	Per Metre	650.00

Note: The above rates are inclusive of all taxes , duties and transportation charges to anywhere in Tamilnadu. Excise duty at 12.50% and VAT at 5%.

1.5 PVC SPECIALS AS PER IS 7834/1987

Sl.No.	Description	Unit	Rate for 2015 -16 in Rupees
	PVC THREADED COUPLER		
1	63 mm x 50 mm	Each	38.00
2	75 mm x 50 mm	Each	60.00
3	90 mm x 80 mm	Each	75.00
4	110 mm x 100 mm	Each	135.00
5	140 mm x 125 mm	Each	190.00
	UNEQUAL TEE		
1	63 mm x 50 mm	Each	70.00
2	75 mm X 50 mm	Each	135.00
3	90 mm x 50 mm	Each	164.00
4	90 mm x 63 mm	Each	164.00
5	90 mm x 75 mm	Each	165.00
6	110 mm x 50 mm	Each	242.00
7	110mm x 63 mm	Each	242.00
8	110 mm x 90mm	Each	245.00
9	140mm x 50 mm	Each	398.00
10	140 mm x 63 mm	Each	398.00
11	140 mm x 90 mm	Each	398.00
12	140 mm x 110 mm	Each	398.00
13	160 mm x 50 mm	Each	490.00
14	160 mm x 63 mm	Each	490.00
15	160 mm x 90 mm	Each	490.00
16	160 mm x 110mm	Each	490.00
17	160 mm x140 mm	Each	580.00
	PVC REDUCER COUPLER		
1	63 mm x 50 mm	Each	40.00
2	75 mm x 63 mm	Each	42.00
3	90 mm x 63 mm	Each	65.00
4	90 mm x 75 mm	Each	65.00
5	110 mm x 63 mm	Each	82.00
6	110 mm x 75 mm	Each	82.00
7	110 mm x 90 mm	Each	103.00
8	140 mm x 63 mm	Each	118.00
9	140 mm x 90 mm	Each	120.00
10	140 mm x 110 mm	Each	124.00
11	160 mm x 110 mm	Each	190.00
12	160 mm x 140 mm	Each	210.00

Sl.No.	Description	Unit	Rate for 2015 -16 in Rupees
	PVC REDUCER MULTI STAGE		
1	90 mm x 63 mm	Each	85.00
2	110 mm x 63 mm	Each	162.00
3	110 mm x 75 mm	Each	162.00
4	110 mm x 90 mm	Each	185.00
5	140 mm x 90 mm	Each	190.00
	PVC REDUCER FABRICATED		
1	75 mm x 63 mm	Each	55.00
2	90 mm x 75 mm	Each	80.00
3	110 mm x 90 mm	Each	120.00
4	140 mm x 110 mm	Each	190.00
5	160 mm x 140 mm	Each	290.00
	SADDLE PIECE		
1	63 mm x 20 mm	Each	80.00
2	75 mm x 20 mm	Each	98.00
3	90 mm x 20 mm	Each	115.00
4	110 mm x 20 mm	Each	125.00
5	140 mm x 20 mm	Each	185.00
6	160 mm x 20 mm	Each	245.00

Note: The above rates are inclusive of all taxes, duties and transportation charges anywhere in Tamilnadu. Excise duty 12.50% and VAT 5%.

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

Sl. No.	Description	Rate for 2015 -16 in Rupees											
		20mm	25mm	32mm	40mm	50mm	63mm	75mm	90mm	110mm	140mm	160mm	200mm
1	PVC Couplers fabricated 4 KSC	-	-	-	-	13.00	20.00	25.00	37.00	65.00	124.00	155.00	260.00
2	PVC Couplers fabricated 6 KSC	-	-	-	-	20.00	25.00	29.00	52.00	80.00	162.00	220.00	413.00
3	PVC Bends fabricated 4 KSC	-	-	-	-	35.00	42.00	66.00	105.00	148.00	395.00	634.00	1210.00
4	PVC Bends fabricated 6 KSC	-	-	-	-	39.00	62.00	109.00	148.00	242.00	624.00	1020.00	2065.00
5	PVC Equal Tee Fabricated 4 KSC	-	-	-	-	39.00	47.00	51.00	120.00	182.00	275.00	334.00	415.00
6	PVC Equal Tee Fabricated BIS 10124/1982 PartV 6 KSC	-	-	-	-	42.00	90.00	120.00	188.00	310.00	406.00	430.00	525.00
7	PVC Couplers (Mould) BIS 7834/1975 Part VI	7.00	11.00	12.00	21.00	31.00	52.00	75.00	120.00	161.00	237.00	320.00	490.00
8	PVC Elbow (Mould) BIS 7834/1975 Part VI	9.00	11.00	14.00	28.00	52.00	57.00	83.00	120.00	184.00	365.00	445.00	535.00
9	PVC Equal tee (Mould) BIS 7834/1975	10.00	19.00	27.00	30.00	58.00	102.00	118.00	190.00	295.00	720.00	805.00	1206.00
10	PVC Male Threaded Adaptor	-	-	-	-	28.00	38.00	40.00	68.00	120.00	180.00	204.00	320.00
11	PVC End Cap	4.00	6.00	9.00	13.00	15.00	26.00	46.00	68.00	90.00	184.00	260.00	395.00
12	PVC Tail piece without flange (BIS marks)	-	-	-	-	32.00	34.00	43.00	63.00	90.00	160.00	234.00	325.00
13	PVC flanged Tail piece	-	-	-	-	-	181.00	216.00	270.00	315.00	524.00	686.00	1027.00

Note: The above rates are inclusive of all taxes, duties and transportation charges anywhere in Tamilnadu. Excise duty 12.50% and VAT 5%.

2.0 HDPE PIPES - PE 100 with excise duty AS PER IS 4984/1995

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
	PN 6					
1	50 mm	Metre	72.00	75.50	73.00	
2	63 mm	Metre	112.00	117.50	113.50	
3	75 mm	Metre	161.00	168.50	163.50	
4	90 mm	Metre	227.50	238.50	231.00	
5	110 mm	Metre	334.00	350.00	339.00	
6	125 mm	Metre	432.50	453.00	439.00	
7	140 mm	Metre	544.00	570.00	552.00	
8	160 mm	Metre	709.00	743.00	719.00	
9	180 mm	Metre	894.50	937.50	907.50	
10	200 mm	Metre	1101.00	1153.50	1117.00	
11	225 mm	Metre	1380.00	1447.00	1400.00	
12	250 mm	Metre	1718.00	1800.00	1743.00	
13	280 mm	Metre	2154.00	2257.00	2185.00	
14	315 mm	Metre	2727.00	2857.50	2766.50	
15	355 mm	Metre	3457.00	3622.50	3507.00	
16	400 mm	Metre	4469.50	4683.50	4534.00	
17	450 mm	Metre	5654.00	5924.50	5736.00	
18	500 mm	Metre	6990.00	7324.50	7091.00	
19	560 mm	Metre	8752.00	9170.50	8878.50	
20	630 mm	Metre	11079.00	11609.00	11239.50	
	PN 8					
1	50 mm	Metre	90.50	95.00	92.00	
2	63 mm	Metre	144.00	151.00	146.00	
3	75 mm	Metre	202.50	212.00	205.50	
4	90 mm	Metre	291.00	305.00	295.00	
5	110 mm	Metre	432.50	453.00	439.00	
6	125 mm	Metre	559.00	585.50	567.00	
7	140 mm	Metre	699.50	733.00	709.50	
8	160 mm	Metre	912.00	955.50	925.00	
9	180 mm	Metre	1151.50	1206.50	1168.00	
10	200 mm	Metre	1420.00	1488.00	1440.50	
11	225 mm	Metre	1798.00	1884.00	1824.00	
12	250 mm	Metre	2214.50	2320.50	2246.50	
13	280 mm	Metre	2778.00	2911.00	2818.00	
14	315 mm	Metre	3512.50	3680.50	3563.50	
15	355 mm	Metre	4445.00	4657.50	4509.50	
16	400 mm	Metre	5760.50	6036.00	5844.00	
17	450 mm	Metre	7265.00	7614.00	7370.50	

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
18	500 mm	Metre	8981.50	9412.00	9111.50	
19	560 mm	Metre	11299.50	11840.00	11463.00	
20	630 mm	Metre	14294.50	14978.50	14501.50	
	PN 10					
1	50 mm	Metre	110.00	115.50	111.50	
2	63 mm	Metre	175.00	183.50	177.50	
3	75 mm	Metre	247.00	259.00	250.50	
4	90 mm	Metre	354.00	371.00	359.00	
5	110 mm	Metre	523.00	548.00	530.50	
6	125 mm	Metre	674.00	706.00	683.50	
7	140 mm	Metre	843.50	884.00	855.50	
8	160 mm	Metre	1101.00	1153.50	1117.00	
9	180 mm	Metre	1396.50	1463.50	1416.50	
10	200 mm	Metre	1608.50	1691.00	1633.50	
11	225 mm	Metre	2172.50	2276.50	2204.00	
12	250 mm	Metre	2676.00	2804.00	2714.50	
13	280 mm	Metre	3352.50	3513.00	3401.00	
14	315 mm	Metre	4247.00	4450.00	4308.50	
15	355 mm	Metre	5401.00	5659.50	5479.00	
16	400 mm	Metre	6997.00	7331.50	7098.00	
17	450 mm	Metre	8826.50	9248.50	8954.00	
18	500 mm	Metre	10835.00	11356.50	10992.50	
19	560 mm	Metre	13660.00	14313.50	13857.50	
20	630 mm	Metre	17305.00	18133.00	17555.50	
	PN 12.5					
1	50 mm	Metre	131.00	137.50	133.00	
2	63 mm	Metre	207.50	217.50	210.50	
3	75 mm	Metre	293.50	307.50	297.50	
4	90 mm	Metre	424.50	445.00	430.50	
5	110 mm	Metre	628.50	658.50	637.50	
6	125 mm	Metre	809.50	848.00	821.00	
7	140 mm	Metre	1016.00	1064.50	1030.50	
8	160 mm	Metre	1324.50	1388.00	1343.50	
9	180 mm	Metre	1676.00	1756.00	1700.00	
10	200 mm	Metre	2067.00	2166.00	2097.00	
11	225 mm	Metre	2617.00	2742.00	2655.00	
12	250 mm	Metre	3219.00	3373.00	3265.50	
13	280 mm	Metre	4037.00	4230.00	4095.50	
14	315 mm	Metre	5111.00	5355.50	5185.00	
15	355 mm	Metre	6488.00	6798.50	6582.00	

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
16	400 mm	Metre	8411.00	8813.50	8532.50	
17	450 mm	Metre	10639.50	11148.50	10793.50	
18	500 mm	Metre	13116.00	13743.50	13305.50	
19	560 mm	Metre	16442.00	17228.50	16679.50	
20	630 mm	Metre	20804.50	21799.50	21105.50	
	PN 16					
1	50 mm	Metre	160.00	167.50	162.50	
2	63 mm	Metre	251.50	263.50	255.00	
3	75 mm	Metre	356.00	373.00	361.00	
4	90 mm	Metre	512.50	537.00	520.00	
5	110 mm	Metre	760.00	796.50	771.00	
6	125 mm	Metre	982.50	1029.50	996.50	
7	140 mm	Metre	1229.50	1288.50	1247.50	
8	160 mm	Metre	1610.00	1687.00	1633.50	
9	180 mm	Metre	2030.00	2127.00	2059.50	
10	200 mm	Metre	2508.00	2628.00	2544.50	
11	225 mm	Metre	3170.50	3322.00	3216.50	
12	250 mm	Metre	3911.50	4098.50	3968.00	
13	280 mm	Metre	4903.50	5138.00	4974.50	
14	315 mm	Metre	6196.50	6493.00	6286.00	
15	355 mm	Metre	7862.50	8238.50	7976.00	
16	400 mm	Metre	10193.00	10680.50	10340.50	
17	450 mm	Metre	12916.50	13534.00	13103.00	
18	500 mm	Metre	15928.00	16689.50	16158.50	

Note: The above rates are inclusive of all taxes, duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty 12.50% and VAT 5%.

2.1 HDPE PIPES - PE 100 without excise duty AS PER IS 4984/1995

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
	PN 6					
1	50 mm	Metre	65.00	68.00	66.00	
2	63 mm	Metre	102.00	107.00	103.50	
3	75 mm	Metre	144.50	151.50	146.50	
4	90 mm	Metre	200.00	209.50	203.00	
5	110 mm	Metre	296.50	310.50	301.00	
6	125 mm	Metre	384.00	402.50	389.50	
7	140 mm	Metre	481.00	504.00	488.00	
8	160 mm	Metre	627.50	657.50	636.50	
9	180 mm	Metre	789.50	827.50	801.00	
10	200 mm	Metre	976.00	1023.00	990.00	
11	225 mm	Metre	1238.50	1298.00	1256.50	
12	250 mm	Metre	1519.00	1592.00	1541.00	
13	280 mm	Metre	1904.50	1996.00	1932.00	
14	315 mm	Metre	2412.00	2528.00	2447.00	
15	355 mm	Metre	3055.00	3202.00	3099.50	
16	400 mm	Metre	3951.00	4141.00	4008.50	
17	450 mm	Metre	4997.50	5238.00	5070.00	
18	500 mm	Metre	6178.50	6476.00	6268.50	
19	560 mm	Metre	8018.00	8390.00	8130.50	
20	630 mm	Metre	10151.50	10622.50	10294.00	
	PN 8					
1	50 mm	Metre	81.00	85.00	82.00	
2	63 mm	Metre	127.50	133.50	129.50	
3	75 mm	Metre	179.00	187.50	181.50	
4	90 mm	Metre	257.50	270.00	261.00	
5	110 mm	Metre	384.50	403.00	390.00	
6	125 mm	Metre	493.50	517.50	500.50	
7	140 mm	Metre	617.50	647.50	626.50	
8	160 mm	Metre	807.50	846.50	819.00	
9	180 mm	Metre	1018.00	1067.00	1033.00	
10	200 mm	Metre	1254.00	1314.50	1272.50	
11	225 mm	Metre	1590.00	1666.50	1613.00	
12	250 mm	Metre	1957.50	2051.50	1986.00	
13	280 mm	Metre	2455.00	2573.00	2490.50	
14	315 mm	Metre	3106.50	3256.00	3151.50	
15	355 mm	Metre	3930.50	4119.50	3987.50	
16	400 mm	Metre	5093.50	5338.50	5167.50	
17	450 mm	Metre	6398.00	6708.50	6492.00	
18	500 mm	Metre	7909.00	8292.00	8024.50	

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
19	560 mm	Metre	10350.00	10830.50	10495.50	
20	630 mm	Metre	13057.00	13665.00	13241.00	
	PN 10					
1	50 mm	Metre	99.00	103.50	100.50	
2	63 mm	Metre	153.50	161.00	155.50	
3	75 mm	Metre	220.50	231.00	223.50	
4	90 mm	Metre	312.50	327.50	317.00	
5	110 mm	Metre	463.00	485.00	469.50	
6	125 mm	Metre	596.00	624.50	604.50	
7	140 mm	Metre	744.00	780.00	755.00	
8	160 mm	Metre	973.00	1020.00	987.00	
9	180 mm	Metre	1236.50	1296.00	1254.50	
10	200 mm	Metre	1417.50	1490.50	1439.50	
11	225 mm	Metre	1920.50	2013.00	1948.50	
12	250 mm	Metre	2367.50	2481.50	2402.00	
13	280 mm	Metre	2965.00	3107.50	3008.00	
14	315 mm	Metre	3755.50	3936.00	3810.00	
15	355 mm	Metre	4775.50	5005.00	4845.00	
16	400 mm	Metre	6183.00	6480.50	6273.00	
17	450 mm	Metre	7802.50	8178.00	7916.00	
18	500 mm	Metre	9639.50	10103.00	9779.50	
19	560 mm	Metre	12514.50	13095.50	12690.00	
20	630 mm	Metre	15852.00	16588.00	16074.50	
	PN 12.5					
1	50 mm	Metre	117.00	122.50	118.50	
2	63 mm	Metre	189.00	198.00	191.50	
3	75 mm	Metre	265.00	277.50	269.00	
4	90 mm	Metre	387.50	405.50	393.00	
5	110 mm	Metre	573.50	600.00	581.50	
6	125 mm	Metre	736.00	770.50	746.50	
7	140 mm	Metre	922.00	965.00	935.00	
8	160 mm	Metre	1206.00	1262.50	1223.00	
9	180 mm	Metre	1522.50	1594.00	1544.00	
10	200 mm	Metre	1878.50	1966.50	1905.00	
11	225 mm	Metre	2381.00	2492.50	2414.50	
12	250 mm	Metre	2926.50	3063.50	2968.00	
13	280 mm	Metre	3673.50	3845.00	3725.50	
14	315 mm	Metre	4651.00	4868.50	4716.50	
15	355 mm	Metre	5900.50	6176.50	5984.00	
16	400 mm	Metre	7651.50	8009.00	7759.50	
17	450 mm	Metre	9746.50	10199.00	9883.50	

Sl. No	Description	Unit	Rate for 2015-16 in Rupees			
			I Quarter	II Quarter	III Quarter	IV Quarter
18	500 mm	Metre	12016.00	12573.50	12184.50	
19	560 mm	Metre	15058.50	15757.50	15270.00	
20	630 mm	Metre	19056.00	19940.50	19323.50	
	PN 16					
1	50 mm	Metre	144.00	151.00	146.00	
2	63 mm	Metre	233.00	243.50	236.00	
3	75 mm	Metre	322.00	337.00	326.50	
4	90 mm	Metre	464.00	486.00	470.50	
5	110 mm	Metre	692.50	725.00	702.50	
6	125 mm	Metre	893.00	935.00	905.50	
7	140 mm	Metre	1118.00	1170.50	1134.00	
8	160 mm	Metre	1464.00	1532.50	1484.50	
9	180 mm	Metre	1846.00	1932.50	1872.00	
10	200 mm	Metre	2278.00	2384.50	2310.00	
11	225 mm	Metre	2884.50	3019.50	2925.50	
12	250 mm	Metre	3557.50	3724.00	3608.00	
13	280 mm	Metre	4458.50	4667.00	4521.50	
14	315 mm	Metre	5638.00	5901.50	5717.50	
15	355 mm	Metre	7151.50	7486.00	7252.50	
16	400 mm	Metre	9272.00	9705.50	9403.00	
17	450 mm	Metre	11830.50	12379.50	11996.50	
18	500 mm	Metre	14938.50	15615.50	15143.00	

Note: The above rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.

2.2 SPECIALS FOR HDPE PIPES AS PER IS 8360/1977/Part I, II, III

Sl. No	Description	Unit	Rate for 2015-16 in Rupees	
			90 Degree Bend	Equal Tee
PN 6				
1	50 mm	Each	50.00	58.00
2	63 mm	Each	73.00	79.00
3	75 mm	Each	100.00	138.00
4	90 mm	Each	176.00	263.00
5	110 mm	Each	317.00	435.00
6	125 mm	Each	418.00	461.00
7	140 mm	Each	575.00	633.00
8	160 mm	Each	834.00	931.00
9	180 mm	Each	1162.00	1323.00
10	200 mm	Each	1575.00	1764.00
11	225 mm	Each	2168.00	2488.00
12	250 mm	Each	2953.00	3382.00
13	280 mm	Each	4138.00	4700.00
14	315 mm	Each	7322.00	6483.00
15	355 mm	Each	10894.00	9067.00
16	400 mm	Each	15426.00	13261.00
17	450 mm	Each	20465.00	18826.00
18	500 mm	Each	32335.00	32521.00
19	560 mm	Each	39969.00	40651.00
20	630 mm	Each	47884.00	56291.00
PN 8				
1	125 mm	Each	398.00	488.00
2	140 mm	Each	532.00	668.00
3	160 mm	Each	757.00	967.00
4	180 mm	Each	1058.00	1349.00
5	200 mm	Each	1430.00	1802.00
6	225 mm	Each	1954.00	2513.00
7	250 mm	Each	2629.00	3390.00
8	280 mm	Each	3637.00	4685.00
9	315 mm	Each	7558.00	6418.00
10	355 mm	Each	10777.00	8928.00
11	400 mm	Each	15731.00	12947.00
12	450 mm	Each	22409.00	18286.00
13	500 mm	Each	30736.00	33075.00
14	560 mm	Each	43194.00	41410.00
15	630 mm	Each	61502.00	52728.00
PN 10				
1	50 mm	Each	68.00	84.00
2	63 mm	Each	112.00	124.00
3	75 mm	Each	144.00	226.00
4	90 mm	Each	260.00	367.00
5	110 mm	Each	424.00	614.00
6	125 mm	Each	581.00	855.00
7	140 mm	Each	852.00	1180.00
8	160 mm	Each	1204.00	1810.00
9	180 mm	Each	1837.00	2504.00
10	200 mm	Each	2355.00	3343.00

Sl. No	Description	Unit	Rate for 2015-16 in Rupees	
			90 Degree Bend	Equal Tee
11	225 mm	Each	3228.00	4612.00
12	250 mm	Each	4310.00	6228.00
13	280 mm	Each	5977.00	8581.00
14	315 mm	Each	11006.00	11711.00
15	355 mm	Each	15890.00	16245.00
16	400 mm	Each	23312.00	23447.00
17	450 mm	Each	29818.00	31125.00
18	500 mm	Each	39982.00	53476.00
19	560 mm	Each	67880.00	90256.00
20	630 mm	Each	96779.00	128631.00
	PN 12.5			
1	125 mm	Each	586.00	835.00
2	140 mm	Each	818.00	1178.00
3	160 mm	Each	1171.00	1754.00
4	180 mm	Each	1625.00	2514.00
5	200 mm	Each	2174.00	3444.00
6	225 mm	Each	3094.00	4532.00
7	250 mm	Each	3952.00	6185.00
8	280 mm	Each	5656.00	8717.00
9	315 mm	Each	11999.00	11445.00
10	355 mm	Each	15876.00	16375.00
11	400 mm	Each	22416.00	21896.00
12	450 mm	Each	32670.00	41443.00
13	500 mm	Each	44776.00	59428.00
14	560 mm	Each	62836.00	83429.00
15	630 mm	Each	89491.00	118773.00
	PN 16			
1	50 mm	Each	144.00	151.00
2	63 mm	Each	225.00	221.00
3	75 mm	Each	263.00	377.00
4	90 mm	Each	404.00	576.00
5	110 mm	Each	738.00	1048.00
6	125 mm	Each	796.00	1318.00
7	140 mm	Each	1114.00	1855.00
8	160 mm	Each	1933.00	2822.00
9	180 mm	Each	2609.00	4038.00
10	200 mm	Each	3498.00	5542.00
11	225 mm	Each	4979.00	7289.00
12	250 mm	Each	6367.00	9966.00
13	280 mm	Each	9104.00	14031.00
14	315 mm	Each	19317.00	19198.00
15	355 mm	Each	25571.00	27481.00
16	400 mm	Each	36178.00	47927.00
17	450 mm	Each	51554.00	65256.00
18	500 mm	Each	70675.00	93604.00

Note: The above rates are inclusive of Excise duty at 12.50%, VAT at 5% and transportation charges anywhere in Tamilnadu.

2.3 JOINTING OF HDPE PIPES

SI No.	Description	Unit	Rate for 2015-16 in Rupees.
1	50 mm	Joint	54.00
2	63 mm	Joint	68.00
3	75 mm	Joint	81.00
4	90 mm	Joint	97.00
5	110 mm	Joint	118.00
6	125 mm	Joint	135.00
7	140 mm	Joint	151.00
8	160 mm	Joint	172.00
9	180 mm	Joint	198.00
10	200 mm	Joint	220.00
11	225 mm	Joint	248.00
12	250 mm	Joint	275.00
13	280 mm	Joint	308.00
14	315 mm	Joint	347.00
15	355 mm	Joint	391.00
16	400 mm	Joint	440.00
17	450 mm	Joint	495.00
18	500 mm	Joint	550.00
19	560 mm	Joint	635.00
20	630 mm	Joint	727.00

**3.0 A.C.PRESSURE PIPES AS PER IS 1592 / 2003
(Without Excise Duty)**

SI.No	Description	Unit	Rate for 2015-16 in Rupees
I	Class 15		
1	80mm	Metre	267.00
2	100mm	Metre	350.00
3	125mm	Metre	457.00
4	150mm	Metre	643.00
5	200mm	Metre	1065.00
6	250mm	Metre	1350.00
7	300mm	Metre	1888.00
8	350mm	Metre	2302.00
9	400mm	Metre	3264.00
10	450mm	Metre	3875.00
II	Class 20		
1	80mm	Metre	291.00
2	100mm	Metre	446.00
3	125mm	Metre	570.00
4	150mm	Metre	801.00
5	200mm	Metre	1363.00
6	250mm	Metre	1751.00
7	300mm	Metre	2460.00
8	350mm	Metre	2992.00
9	400mm	Metre	4270.00
10	450mm	Metre	5144.00

Note: Excise duty shall be charged extra at 12.50% for non fly ash pipes. The above rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.

**3.1 A.C. COUPLER AS PER IS 1592 /2003
(Without Excise Duty)**

Sl.No	Description	Unit	Rate for 2015-16 in Rupees
I	Class 15		
1	80mm	Each	231.00
2	100mm	Each	298.00
3	125mm	Each	376.00
4	150mm	Each	451.00
5	200mm	Each	772.00
6	250mm	Each	900.00
7	300mm	Each	1143.00
8	350mm	Each	1492.00
9	400mm	Each	2107.00
10	450mm	Each	2593.00
II	Class 20		
1	80mm	Each	246.00
2	100mm	Each	316.00
3	125mm	Each	404.00
4	150mm	Each	533.00
5	200mm	Each	828.00
6	250mm	Each	1114.00
7	300mm	Each	1443.00
8	350mm	Each	1870.00
9	400mm	Each	2787.00
10	450mm	Each	3332.00

Note: Excise duty shall be charged extra at 12.50% for non fly ash pipes. The above rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu.

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

Sl.No	Description	Unit	Rate for 2015-16 in Rupees
I	Class 15		
1	80mm	Each	389.00
2	100mm	Each	488.00
3	125mm	Each	615.00
4	150mm	Each	788.00
5	200mm	Each	1146.00
6	250mm	Each	1491.00
7	300mm	Each	1799.00
8	350mm	Each	3026.00
9	400mm	Each	3774.00
10	450mm	Each	4532.00
II	Class 20		
1	80mm	Each	399.00
2	100mm	Each	494.00
3	125mm	Each	664.00
4	150mm	Each	799.00
5	200mm	Each	1218.00
6	250mm	Each	1606.00
7	300mm	Each	1668.00
8	350mm	Each	3220.00
9	400mm	Each	3865.00
10	450mm	Each	4565.00

Note: Excise Duty is applicable on CID Joints.
The above rates are inclusive of Vat at 5% and transportation charges anywhere in Tamilnadu. Excise duty extra.

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

SI No.	Description	Unit	Rate for 2015- 16 in Rupees	
			With Excise duty	Without Excise duty
I	LA Class			
1	80mm	Metre	1166.00	1104.00
2	100mm	Metre	1444.00	1368.00
3	125mm	Metre	1873.00	1773.00
4	150mm	Metre	2241.00	2122.00
5	200mm	Metre	3236.00	3064.00
6	250mm	Metre	4363.00	4131.00
7	300mm	Metre	5628.00	5330.00
8	350mm	Metre	7169.00	6788.00
9	400mm	Metre	8725.00	8262.00
10	450mm	Metre	10572.00	10011.00
11	500mm	Metre	12445.00	11784.00
12	600mm	Metre	16549.00	15669.00
13	700mm	Metre	21397.00	20258.00
14	750mm	Metre	24021.00	22748.00
II	A Class			
1	80mm	Metre	1268.00	1201.00
2	100mm	Metre	1589.00	1505.00
3	125mm	Metre	2042.00	1934.00
4	150mm	Metre	2453.00	2323.00
5	200mm	Metre	3516.00	3330.00
6	250mm	Metre	4753.00	4501.00
7	300mm	Metre	6152.00	5826.00
8	350mm	Metre	7776.00	7363.00
9	400mm	Metre	9536.00	9030.00
10	450mm	Metre	11612.00	10994.00
11	500mm	Metre	13555.00	12834.00
12	600mm	Metre	18065.00	17105.00
13	700mm	Metre	23310.00	22067.00
14	750mm	Metre	26181.00	24787.00

SI No.	Description	Unit	Rate for 2015- 16 in Rupees	
			With Excise duty	Without Excise duty
III	B Class			
1	80mm	Metre	1359.00	1286.00
2	100mm	Metre	1695.00	1605.00
3	125mm	Metre	2199.00	2082.00
4	150mm	Metre	2642.00	2501.00
5	200mm	Metre	3800.00	3598.00
6	250mm	Metre	5138.00	4865.00
7	300mm	Metre	6662.00	6308.00
8	350mm	Metre	8430.00	7982.00
9	400mm	Metre	10293.00	9746.00
10	450mm	Metre	12526.00	11860.00
11	500mm	Metre	14667.00	13887.00
12	600mm	Metre	19571.00	18530.00
13	700mm	Metre	25124.00	23779.00
14	750mm	Metre	28330.00	26817.00

Note: The above rates are inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50%.

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

SI No.	Description	Unit	Rate for 2015- 16 in Rupees	
			With Excise duty	Without Excise duty
I	STANDARD			
1	80mm to 200mm	Kg	73.00	66.00
2	250mm to 400mm	Kg	76.00	68.00
3	450mm to 750mm	Kg	85.00	76.00
II	NON-STANDARD			
1	80mm to 200mm	Kg	80.00	72.00
2	250mm to 400mm	Kg	84.00	75.00
3	450mm to 750mm	Kg	86.00	77.00

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

SI No.	Description	Unit	Rate for 2015- 16 in Rupees	
			With Excise duty	Without Excise duty
I	STANDARD			
1	80mm to 200mm	Kg	69.00	62.00
2	250mm to 400mm	Kg	86.00	76.00
3	450mm to 750mm	Kg	89.00	79.00
II.	NON-STANDARD			
1	80mm to 200mm	Kg	73.00	66.00
2	250mm to 400mm	Kg	90.00	78.00
3	450mm to 750mm	Kg	93.00	81.00

Note: The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50%

5.0 G I PIPES (MEDIUM) AS PER IS 1239/PART I/90

SI.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	15mm	metre	99.00	90.00
2	20mm	metre	130.00	120.00
3	25mm	metre	188.00	174.00
4	32mm	metre	237.00	219.00
5	40mm	metre	276.00	254.00
6	50mm	metre	374.00	347.00
7	65mm	metre	479.00	443.00
8	80mm	metre	593.00	548.00
9	100mm	metre	846.00	781.00
10	125mm	metre	1215.00	1122.00
11	150mm	metre	1357.00	1255.00

Note: The above rates are inclusive of all taxes, duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty 12.50% and VAT 5%.

5.1 G.I. SPECIALS AS PER IS

Sl.No.	Description	Unit	Rates for 2015-16 in Rupees
	GI REDUCER (HEAVY)		
1	125 mm x 100 mm	Each	675.00
2	125 mm x 80 mm	Each	675.00
3	125 mm x 65 mm	Each	675.00
4	125 mm x 50 mm	Each	675.00
5	100 mm x 80 mm	Each	465.00
6	100 mm x 65 mm	Each	465.00
7	100 mm x 50 mm	Each	465.00
8	80 mm x 65 mm	Each	290.00
9	80 mm x 50 mm	Each	290.00
10	80 mm x 40 mm	Each	290.00
11	80 mm x 32 mm	Each	290.00
12	65 mm x 50 mm	Each	200.00
13	65 mm x 40 mm	Each	200.00
14	65 mm x 32 mm	Each	200.00
15	65 mm x 20 mm	Each	200.00
16	50 mm x 40 mm	Each	110.00
17	50 mm x 32 mm	Each	110.00
18	50 mm x 20 mm	Each	110.00
19	40 mm x 32 mm	Each	75.00
20	40 mm x 20 mm	Each	75.00
	GI REDUCER (MEDIUM)		
1	125 mm x 100 mm	Each	515.00
2	125 mm x 80 mm	Each	515.00
3	125 mm x 65 mm	Each	515.00
4	125 mm x 50 mm	Each	515.00
5	100 mm x 80 mm	Each	336.00
6	100 mm x 65mm	Each	336.00
7	100 mm x 50 mm	Each	336.00
8	80 mm x 65 mm	Each	186.00
9	80 mm x 50 mm	Each	146.00
10	80 mm x 40 mm	Each	146.00
11	80 mm x 32 mm	Each	146.00
12	65 mm x 50 mm	Each	105.00
13	65 mm x 40 mm	Each	105.00

Sl.No.	Description	Unit	Rates for 2015-16 in Rupees
14	65 mm x 32 mm	Each	105.00
15	65 mm x 20 mm	Each	105.00
16	50 mm x 40 mm	Each	71.00
17	50 mm x 32 mm	Each	71.00
18	50 mm x 20 mm	Each	71.00
19	40 mm x 32 mm	Each	46.00
20	40 mm x 20 mm	Each	46.00
	G I UNEQUAL TEE (HEAVY)		
1	125 mm x 100 mm	Each	1300.00
2	125 mm x 80 mm	Each	1300.00
3	125 mm x 65 mm	Each	1300.00
4	125 mm x 50 mm	Each	1300.00
5	100 mm x 80 mm	Each	903.00
6	100 mm x 65mm	Each	903.00
7	100 mm x 50 mm	Each	903.00
8	80 mm x 65 mm	Each	526.00
9	80 mm x 50 mm	Each	526.00
10	80 mm x 40 mm	Each	526.00
11	80 mm x 32 mm	Each	526.00
12	65 mm x 50 mm	Each	387.00
13	65 mm x 40 mm	Each	387.00
14	65 mm x 32 mm	Each	387.00
15	65 mm x 20 mm	Each	387.00
16	50 mm x 40 mm	Each	230.00
17	50 mm x 32 mm	Each	230.00
18	50 mm x 20 mm	Each	230.00
19	40 mm x 32 mm	Each	145.00
20	40 mm x 20 mm	Each	145.00
21	32 mm x 20 mm	Each	104.00
	G.I UNEQUAL TEE (MEDIUM)		
1	125 mm x 100 mm	Each	780.00
2	125 mm x 80 mm	Each	780.00
3	125 mm x 65 mm	Each	780.00
4	125 mm x 50 mm	Each	780.00
5	100 mm x 80 mm	Each	512.00
6	100 mm x 65mm	Each	512.00

Sl.No.	Description	Unit	Rates for 2015-16 in Rupees
7	100 mm x 50 mm	Each	512.00
8	80 mm x 65 mm	Each	253.00
9	80 mm x 50 mm	Each	253.00
10	80 mm x 40 mm	Each	253.00
11	80 mm x 32 mm	Each	253.00
12	65 mm x 50 mm	Each	178.00
13	65 mm x 40 mm	Each	178.00
14	65 mm x 32 mm	Each	178.00
15	65 mm x 20 mm	Each	178.00
16	50 mm x 40 mm	Each	105.00
17	50 mm x 32 mm	Each	105.00
18	50 mm x 20 mm	Each	105.00
19	40 mm x 32 mm	Each	75.00
20	40 mm x 20 mm	Each	75.00
21	32 mm x 20 mm	Each	75.00
	MS BOLTS AND NUTS		
1	16 mm dia x 65 to 90 mm length fully threaded bolts and nuts with 2 Nos.	Kg.	91.00
2	20mm dia and above x 90mm to 120mm length fully threaded bolts and with nuts 2 Nos.	Kg.	95.00
	RUBBER INSERTION SHEET		
1	3 Ply R.I. Sheet	Kg.	79.00
	AC COWL		
1	80 mm dia	Each	29.00
2	100 mm dia	Each	49.00

Note : The above rates are inclusive of all taxes, duties and transportation charges. Excise duty 12.50% and VAT at 5%.

5.1 G.I. SPECIALS AS PER IS

CONTINUED....

Sl. No.	Description	Rate for 2015-16 in Rupees											
		15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	
1	G.I. Equal Elbow plain	22.00	30.00	46.00	75.00	95.00	144.00	257.00	379.00	679.00	700.00	1680.00	
2	G.I. Equal Tee plain	34.00	42.00	60.00	88.00	129.00	213.00	344.00	475.00	849.00	1225.00	1715.00	
3	G.I. Coupling	20.00	21.00	28.00	50.00	75.00	112.00	198.00	235.00	471.00	710.00	1432.00	
4	G.I. Flange set	—	—	—	—	—	69.00	84.00	95.00	158.00	230.00	815.00	
5	G.I. Cross	50.00	64.00	103.00	166.00	214.00	324.00	519.00	789.00	1040.00	1310.00	—	
6	G.I. Hex Nipple	20.00	35.00	35.00	55.00	71.00	96.00	171.00	234.00	347.00	370.00	798.00	
7	G.I. Three Way Elbow	44.00	67.00	97.00	155.00	203.00	325.00	—	—	—	—	—	
8	G.I. Plug Dia Head Taper Thread	10.00	19.00	19.00	33.00	33.00	60.00	83.00	118.00	166.00	220.00	—	
9	G.I. Bend	21.00	35.00	55.00	67.00	88.00	132.00	243.00	337.00	592.00	855.00	2025.00	
10	G.I. Union	59.00	64.00	106.00	150.00	191.00	271.00	532.00	707.00	1052.00	1405.00	2090.00	
11	G.M. Ferrule	329.00	494.00	727.00	—	—	—	—	—	—	—	—	
12	G.I. stop cock	156.00	209.00	379.00	567.00	843.00	1217.00	1613.00	2052.00	3246.00	4500.00	—	
13	Rubber sheet for Flange set	—	—	—	—	—	13.00	13.00	19.00	37.00	40.00	91.00	
14	G.I. Reduced Elbow Plain	28.00	31.00	53.00	83.00	108.00	159.00	284.00	422.00	728.00	1050.00	1417.00	
15	G.I. Reduced Tee Plain	37.00	52.00	76.00	112.00	146.00	214.00	328.00	506.00	955.00	1350.00	1612.00	
16	G.I. Reduced Socket Plain	22.00	44.00	48.00	67.00	108.00	146.00	186.00	289.00	405.00	525.00	759.00	
17	G.I. Check Nut	13.00	19.00	26.00	38.00	52.00	70.00	120.00	153.00	203.00	255.00	740.00	
18	G.I. Reduced Nipple	20.00	24.00	43.00	82.00	96.00	148.00	276.00	320.00	450.00	638.00	798.00	
19	G.I. Dummy (Heavy)	—	—	—	—	22.00	34.00	43.00	55.00	98.00	142.00	—	
20	G.I. Dummy (Medium)	—	—	—	—	19.00	29.00	38.00	48.00	91.00	140.00	—	
21	M.S. Saddle Piece	—	—	—	—	—	83.00	91.00	105.00	140.00	180.00	555.00	
22	Waste Not Tap	—	118.00	—	—	—	—	—	—	—	—	—	
23	C.I. Footvalve with stainer	—	—	—	—	—	370.00	—	550.00	—	—	—	
24	M.S. Clampset	—	—	—	—	—	—	—	460.00	—	—	—	

Note: The above rates are inclusive of all taxes, duties and transportation charges. Excise duty 12.50% and VAT at 5%.

5.2 G.M GATE VALVES AS PER IS

Sl.No.	Description	Rate for 2015-16 in Rupees									
		15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm
1	G.M. Gate valves	—	480.00	644.00	855.00	1155.00	1855.00	2895.00	4555.00	7805.00	11105.00
2	G.M. Non Return valves	—	—	—	—	—	1855.00	1900.00	2980.00	—	—

Note: The above rates are inclusive of all taxes , duties and transportation charges anywhere in Tamilnadu. Excise Duty 12.50% and VAT at 5%.

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

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	100 mm	Metre	1086.00	971.00
2	150 mm	Metre	1582.00	1422.00
3	200 mm	Metre	2044.00	1838.00
4	250 mm	Metre	2686.00	2418.00
5	300 mm	Metre	3386.00	3051.00
6	350mm	Metre	4117.00	3681.00
7	400 mm	Metre	4940.00	4419.00
8	450 mm	Metre	5835.00	5224.00
9	500 mm	Metre	6883.00	6154.00
10	600 mm	Metre	9071.00	8114.00
11	700 mm	Metre	12423.00	11115.00
12	750 mm	Metre	14261.00	12750.00
13	800 mm	Metre	16280.00	14576.00
14	900 mm	Metre	20164.00	18026.00
15	1000 mm	Metre	23762.00	21267.00

Note: The above rates are inclusive of all taxes , duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50% and VAT at 5%.

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

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	100 mm	Metre	1229.00	1100.00
2	150 mm	Metre	1790.00	1609.00
3	200 mm	Metre	2427.00	2181.00
4	250 mm	Metre	3253.00	2922.00
5	300 mm	Metre	4110.00	3695.00
6	350mm	Metre	4953.00	4426.00
7	400 mm	Metre	5943.00	5311.00
8	450 mm	Metre	7143.00	6386.00
9	500 mm	Metre	8262.00	7383.00
10	600 mm	Metre	10936.00	9777.00
11	700 mm	Metre	14046.00	12559.00
12	750 mm	Metre	15761.00	14093.00
13	800 mm	Metre	17497.00	15650.00
14	900 mm	Metre	21526.00	19238.00
15	1000 mm	Metre	25379.00	22704.00

Note: The above rates are inclusive of all taxes , duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50% and VAT at 5%.

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

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
I)	4 m length of pipes			
1	80 mm	Each	6345.00	5813.00
2	100 mm	Each	7576.00	6803.00
3	150 mm	Each	10590.00	9795.00
4	200 mm	Each	14668.00	13665.00
5	250 mm	Each	19321.00	18026.00
6	300 mm	Each	24258.00	22327.00
7	350mm	Each	33511.00	30093.00
8	400 mm	Each	42918.00	38541.00
9	450 mm	Each	51955.00	46656.00
10	500 mm	Each	59732.00	55719.00
11	600 mm	Each	83055.00	75272.00
12	700 mm	Each	104615.00	93945.00
13	750 mm	Each	138407.00	125432.00
14	800 mm	Each	134709.00	120970.00
15	900 mm	Each	183828.00	165079.00
16	1000mm	Each	215707.00	193706.00
II)	5 m length of pipes			
1	80 mm	Each	7340.00	6724.00
2	100 mm	Each	9813.00	8812.00
3	150 mm	Each	14289.00	12832.00
4	200 mm	Each	18884.00	16958.00
5	250 mm	Each	25651.00	23034.00
6	300 mm	Each	32771.00	29429.00
7	350 mm	Each	39560.00	36685.00
8	400 mm	Each	49799.00	44720.00
9	450 mm	Each	60022.00	53900.00
10	500 mm	Each	69164.00	63975.00
11	600 mm	Each	93805.00	85956.00
12	700 mm	Each	114671.00	105498.00
13	750 mm	Each	130788.00	117449.00
14	800 mm	Each	146502.00	131560.00
15	900 mm	Each	199217.00	178899.00
16	1000 mm	Each	234182.00	210297.00

Note: The above rates are inclusive of all taxes , duties and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50% and VAT at 5%.

6.3 DUCTILE IRON SPECIALS AS PER IS 9523/2000

Sl.No.	Description	Unit	Rates for 2015-16 in Rupees
	ALL SOCKET		
1	100mm - 200 mm dia	Kg	121.00
2	250 mm - 300 mm dia	Kg	121.00
3	350 mm - 450 mm dia	Kg	121.00
4	500 mm - 600 mm dia	Kg	121.00
5	700 mm - 750 mm	Kg	177.00
6	800mm	Kg	177.00
7	900 mm	Kg	187.00
8	1000 mm	Kg	203.00
	ALL FLANGE		
1	100mm - 200 mm dia	Kg	126.00
2	250 mm - 300 mm dia	Kg	126.00
3	350 mm - 450 mm dia	Kg	126.00
4	500 mm - 600 mm dia	Kg	126.00
5	700 mm - 750 mm	Kg	187.00
6	800 mm	Kg	187.00
7	900 mm	Kg	203.00
8	1000 mm	Kg	203.00

Note: In respect of flanged and spigot, flanged and socketted type specials, the rate applicable for flanged type specials is allowed.
The above rates are inclusive of excise duty at 12.50% , VAT at 5% and transportation charges anywhere in Tamilnadu.

7.0 PSC PIPES AS PER IS 784 / 2001

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
I.	4 KSC			
1	350 mm	Metre	2778.00	2645.00
2	400 mm	Metre	2941.00	2855.00
3	450 mm	Metre	3206.00	3041.00
4	500 mm	Metre	3357.00	3185.00
5	600 mm	Metre	3992.00	3797.00
6	700 mm	Metre	4266.00	4057.00
7	800 mm	Metre	5174.00	4936.00
8	900 mm	Metre	6260.00	5955.00
9	1000 mm	Metre	7525.00	7178.00
10	1100 mm	Metre	8471.00	8077.00
11	1200 mm	Metre	10811.00	10364.00
II	6 KSC			
1	350 mm	Metre	2774.00	2680.00
2	400 mm	Metre	3009.00	2870.00
3	450 mm	Metre	3214.00	3047.00
4	500 mm	Metre	3380.00	3206.00
5	600 mm	Metre	4040.00	3844.00
6	700 mm	Metre	4402.00	4191.00
7	800 mm	Metre	5352.00	5111.00
8	900 mm	Metre	6488.00	6180.00
9	1000 mm	Metre	7791.00	7440.00
10	1100 mm	Metre	8751.00	8354.00
11	1200 mm	Metre	10915.00	9704.00
III	8 KSC			
1	350 mm	Metre	2795.00	2687.00
2	400 mm	Metre	3024.00	2891.00
3	450 mm	Metre	3229.00	3064.00
4	500 mm	Metre	3421.00	3248.00
5	600 mm	Metre	4161.00	3922.00
6	700 mm	Metre	4563.00	4350.00
7	800 mm	Metre	5564.00	5320.00
8	900 mm	Metre	6744.00	6432.00
9	1000 mm	Metre	8103.00	7749.00
10	1100 mm	Metre	9147.00	8744.00
11	1200 mm	Metre	11115.00	10035.00
IV	10 KSC			
1	350 mm	Metre	2821.00	2700.00
2	400 mm	Metre	3052.00	2938.00
3	450 mm	Metre	3301.00	3135.00
4	500 mm	Metre	3516.00	3342.00
5	600 mm	Metre	4291.00	3966.00
6	700 mm	Metre	4740.00	4525.00

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
7	800 mm	Metre	5784.00	5537.00
8	900 mm	Metre	7005.00	6690.00
9	1000 mm	Metre	8419.00	8023.00
10	1100 mm	Metre	9531.00	9124.00
11	1200 mm	Metre	11721.00	10421.00
V	12 KSC			
1	350 mm	Metre	2857.00	2759.00
2	400 mm	Metre	3138.00	3009.00
3	450 mm	Metre	3392.00	3224.00
4	500 mm	Metre	3623.00	3448.00
5	600 mm	Metre	4443.00	4099.00
6	700 mm	Metre	4938.00	4721.00
7	800 mm	Metre	6041.00	5790.00
8	900 mm	Metre	7298.00	6979.00
9	1000 mm	Metre	8742.00	8360.00
10	1100 mm	Metre	9919.00	9507.00
11	1200 mm	Metre	12286.00	10955.00
VI	14 KSC			
1	350 mm	Metre	2915.00	2791.00
2	400 mm	Metre	3245.00	3082.00
3	450 mm	Metre	3481.00	3313.00
4	500 mm	Metre	3730.00	3554.00
5	600 mm	Metre	4598.00	4238.00
6	700 mm	Metre	5135.00	4915.00
7	800 mm	Metre	6300.00	6046.00
8	900 mm	Metre	7621.00	7298.00
9	1000 mm	Metre	8742.00	8773.00
10	1100 mm	Metre	10547.00	10126.00
11	1200 mm	Metre	13030.00	11583.00
VII	16 KSC			
1	350 mm	Metre	2973.00	2860.00
2	400 mm	Metre	3236.00	3158.00
3	450 mm	Metre	3572.00	3401.00
4	500 mm	Metre	3841.00	3663.00
5	600 mm	Metre	4922.00	4375.00
6	700 mm	Metre	5335.00	5113.00
7	800 mm	Metre	6557.00	6300.00
8	900 mm	Metre	8416.00	7896.00
9	1000 mm	Metre	9697.00	9257.00
10	1100 mm	Metre	11465.00	10633.00
11	1200 mm	Metre	14114.00	12547.00

Note: The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu.Excise duty 12.50%.

8.0 BAR WRAPPED STEEL CYLINDER PIPES AS PER IS 15155

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
	4 Ksc Pipe			
1	350mm	Metre	3414.00	3284.00
2	400mm	Metre	3748.00	3608.00
3	450mm	Metre	4247.00	4097.00
4	500mm	Metre	4564.00	4407.00
5	600mm	Metre	6249.00	5860.00
6	700mm	Metre	7715.00	7390.00
7	800mm	Metre	9227.00	8552.00
8	900mm	Metre	11812.00	11050.00
9	1000mm	Metre	13614.00	12556.00
10	1100mm	Metre	16770.00	15939.00
11	1200mm	Metre	18871.00	17446.00
12	1300mm	Metre	22343.00	21959.00
13	1400mm	Metre	26397.00	24364.00
14	1500mm	Metre	27327.00	25141.00
	6 Ksc Pipe			
1	350mm	Metre	3419.00	3289.00
2	400mm	Metre	3759.00	3619.00
3	450mm	Metre	4263.00	4113.00
4	500mm	Metre	4582.00	4425.00
5	600mm	Metre	6274.00	5882.00
6	700mm	Metre	7753.00	7417.00
7	800mm	Metre	9265.00	8592.00
8	900mm	Metre	11834.00	11090.00
9	1000mm	Metre	13909.00	12823.00
10	1100mm	Metre	16781.00	16346.00
11	1200mm	Metre	19105.00	18686.00
12	1300mm	Metre	22365.00	21981.00
13	1400mm	Metre	26468.00	24431.00
14	1500mm	Metre	27397.00	25204.00
	8 Ksc Pipe			
1	350mm	Metre	3422.00	3292.00
2	400mm	Metre	3779.00	3639.00
3	450mm	Metre	4281.00	4131.00
4	500mm	Metre	4604.00	4447.00
5	600mm	Metre	6304.00	5899.00
6	700mm	Metre	7780.00	7440.00
7	800mm	Metre	9314.00	8636.00
8	900mm	Metre	11862.00	11132.00
9	1000mm	Metre	14190.00	13092.00

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
10	1100mm	Metre	16798.00	16463.00
11	1200mm	Metre	19125.00	17888.00
12	1300mm	Metre	22393.00	22009.00
13	1400mm	Metre	26470.00	24498.00
14	1500mm	Metre	27473.00	25274.00
	10 Ksc Pipe			
1	350mm	Metre	3424.00	3294.00
2	400mm	Metre	3804.00	3664.00
3	450mm	Metre	4303.00	4153.00
4	500mm	Metre	4629.00	4472.00
5	600mm	Metre	6334.00	5927.00
6	700mm	Metre	7809.00	7469.00
7	800mm	Metre	9369.00	8688.00
8	900mm	Metre	11890.00	11175.00
9	1000mm	Metre	14223.00	13125.00
10	1100mm	Metre	16819.00	16485.00
11	1200mm	Metre	19596.00	18114.00
12	1300mm	Metre	22421.00	22038.00
13	1400mm	Metre	26666.00	24612.00
14	1500mm	Metre	27579.00	25373.00
	12 Ksc Pipe			
1	350mm	Metre	3427.00	3297.00
2	400mm	Metre	3832.00	3692.00
3	450mm	Metre	4329.00	4179.00
4	500mm	Metre	4657.00	4500.00
5	600mm	Metre	6367.00	5956.00
6	700mm	Metre	7840.00	7497.00
7	800mm	Metre	9755.00	9047.00
8	900mm	Metre	11921.00	11233.00
9	1000mm	Metre	14251.00	13244.00
10	1100mm	Metre	16846.00	16512.00
11	1200mm	Metre	19652.00	18337.00
12	1300mm	Metre	22450.00	22066.00
13	1400mm	Metre	26774.00	24714.00
14	1500mm	Metre	27687.00	25473.00
	14 Ksc Pipe			
1	350mm	Metre	3430.00	3300.00
2	400mm	Metre	3854.00	3714.00
3	450mm	Metre	4360.00	4210.00
4	500mm	Metre	4687.00	4530.00
5	600mm	Metre	6405.00	5984.00

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
6	700mm	Metre	7868.00	7525.00
7	800mm	Metre	9914.00	9394.00
8	900mm	Metre	11949.00	11509.00
9	1000mm	Metre	14280.00	13411.00
10	1100mm	Metre	16912.00	16572.00
11	1200mm	Metre	19943.00	18908.00
12	1300mm	Metre	22478.00	22094.00
13	1400mm	Metre	26975.00	26082.00
14	1500mm	Metre	29184.00	26849.00
	16 Ksc Pipe			
1	350mm	Metre	3435.00	3305.00
2	400mm	Metre	3879.00	3739.00
3	450mm	Metre	4396.00	4246.00
4	500mm	Metre	5147.00	4985.00
5	600mm	Metre	6565.00	6386.00
6	700mm	Metre	8224.00	8019.00
7	800mm	Metre	10448.00	10260.00
8	900mm	Metre	12991.00	12506.00
9	1000mm	Metre	15176.00	13991.00
10	1100mm	Metre	18087.00	17511.00
11	1200mm	Metre	21066.00	19474.00
12	1300mm	Metre	26197.00	24778.00
13	1400mm	Metre	29296.00	27040.00
14	1500mm	Metre	30679.00	28227.00
	18 Ksc Pipe			
1	350mm	Metre	3440.00	3310.00
2	400mm	Metre	3919.00	3779.00
3	450mm	Metre	4460.00	4310.00
4	500mm	Metre	5333.00	5169.00
5	600mm	Metre	6868.00	6687.00
6	700mm	Metre	8606.00	8397.00
7	800mm	Metre	10828.00	10588.00
8	900mm	Metre	13418.00	13118.00
9	1000mm	Metre	16159.00	15824.00
10	1100mm	Metre	18511.00	18132.00
11	1200mm	Metre	22816.00	22364.00
12	1300mm	Metre	26717.00	26199.00
13	1400mm	Metre	30212.00	29645.00
14	1500mm	Metre	33621.00	31249.00

Note: The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50%.

9.0 GRP PIPES AS PER IS 12709 / 1994 (WATER SUPPLY)

Sl .No	Description	Unit	Rate for 2015-16 in Rupees			
			Stiffness class 248Kpa		Stiffness class 496Kpa	
			With Excise Duty	Without Excise Duty	With Excise Duty	Without Excise Duty
	PN 3					
1	200mm	Metre	2412.00	2019.00	2653.00	2220.00
2	250mm	Metre	3289.00	2750.00	3618.00	3024.00
3	300mm	Metre	3879.00	3244.00	4267.00	3568.00
4	350mm	Metre	4801.00	4014.00	5281.00	4416.00
5	400mm	Metre	5238.00	4379.00	5762.00	4817.00
6	450mm	Metre	6079.00	5082.00	6687.00	5591.00
7	500mm	Metre	6925.00	5792.00	7618.00	6371.00
8	600mm	Metre	9333.00	7804.00	10266.00	8584.00
9	700mm	Metre	11756.00	9828.00	12931.00	10811.00
10	800mm	Metre	14230.00	11897.00	15653.00	13086.00
11	900mm	Metre	18078.00	15116.00	19886.00	16628.00
12	1000mm	Metre	21711.00	18154.00	23882.00	19970.00
13	1100mm	Metre	25822.00	21587.00	28404.00	23746.00
14	1200mm	Metre	29415.00	24592.00	32357.00	27051.00
15	1300mm	Metre	32630.00	27281.00	35893.00	30009.00
16	1400mm	Metre	38492.00	32183.00	42341.00	35402.00
17	1500mm	Metre	43839.00	36654.00	48222.00	40320.00
18	1600mm	Metre	48233.00	40326.00	53056.00	44360.00
19	1700mm	Metre	52842.00	44181.00	58127.00	48599.00
20	1800mm	Metre	63172.00	52972.00	69489.00	58269.00
21	1900mm	Metre	69987.00	58515.00	76986.00	64366.00
22	2000mm	Metre	75374.00	63020.00	82911.00	69322.00
23	2100mm	Metre	82415.00	68907.00	90657.00	75797.00
24	2200mm	Metre	88219.00	73758.00	97041.00	81135.00
	PN 6					
1	200mm	Metre	2457.00	2055.00	2703.00	2260.00
2	250mm	Metre	3333.00	2788.00	3666.00	3066.00
3	300mm	Metre	3897.00	3260.00	4287.00	3586.00
4	350mm	Metre	4817.00	4029.00	5299.00	4432.00
5	400mm	Metre	5252.00	4392.00	5777.00	4832.00
6	450mm	Metre	6105.00	5103.00	6716.00	5613.00
7	500mm	Metre	6984.00	5840.00	7682.00	6424.00
8	600mm	Metre	9347.00	7816.00	10282.00	8597.00

Sl .No	Description	Unit	Rate for 2015-16 in Rupees			
			Stiffness class 248Kpa		Stiffness class 496Kpa	
			With Excise Duty	Without Excise Duty	With Excise Duty	Without Excise Duty
9	700mm	Metre	11786.00	9854.00	12965.00	10839.00
10	800mm	Metre	14268.00	11928.00	15695.00	13121.00
11	900mm	Metre	18123.00	15152.00	19936.00	16667.00
12	1000mm	Metre	21749.00	18185.00	23924.00	20003.00
13	1100mm	Metre	25919.00	21672.00	28512.00	23840.00
14	1200mm	Metre	29598.00	24747.00	32559.00	27221.00
15	1300mm	Metre	32689.00	27332.00	35958.00	30065.00
16	1400mm	Metre	38526.00	32211.00	42379.00	35432.00
17	1500mm	Metre	43883.00	36690.00	48272.00	40360.00
18	1600mm	Metre	48259.00	40348.00	53084.00	44382.00
19	1700mm	Metre	52918.00	44243.00	58210.00	48668.00
20	1800mm	Metre	63453.00	53055.00	69798.00	58360.00
21	1900mm	Metre	70023.00	58546.00	77025.00	64401.00
22	2000mm	Metre	75426.00	63064.00	82969.00	69370.00
23	2100mm	Metre	82455.00	68940.00	90701.00	75834.00
24	2200mm	Metre	88377.00	73892.00	97214.00	81281.00
	PN 9					
1	200mm	Metre	2505.00	2096.00	2756.00	2306.00
2	250mm	Metre	3381.00	2829.00	3719.00	3112.00
3	300mm	Metre	3960.00	3311.00	4356.00	3642.00
4	350mm	Metre	4901.00	4098.00	5391.00	4509.00
5	400mm	Metre	5413.00	4526.00	5954.00	4978.00
6	450mm	Metre	6279.00	5250.00	6907.00	5776.00
7	500mm	Metre	7133.00	5964.00	7847.00	6561.00
8	600mm	Metre	9504.00	7947.00	10455.00	8741.00
9	700mm	Metre	11964.00	10001.00	13160.00	11001.00
10	800mm	Metre	14533.00	12152.00	15986.00	13367.00
11	900mm	Metre	18347.00	15340.00	20181.00	16874.00
12	1000mm	Metre	22070.00	18454.00	24278.00	20300.00
13	1100mm	Metre	26324.00	22011.00	28956.00	24212.00
14	1200mm	Metre	30146.00	25205.00	33160.00	27725.00
15	1300mm	Metre	33328.00	27867.00	36661.00	30653.00
16	1400mm	Metre	39243.00	32811.00	43168.00	36092.00
17	1500mm	Metre	44811.00	37466.00	49292.00	41212.00
18	1600mm	Metre	49115.00	41063.00	54027.00	45170.00

Sl .No	Description	Unit	Rate for 2015-16 in Rupees			
			Stiffness class 248Kpa		Stiffness class 496Kpa	
			With Excise Duty	Without Excise Duty	With Excise Duty	Without Excise Duty
19	1700mm	Metre	54465.00	45538.00	59912.00	50092.00
20	1800mm	Metre	65092.00	54423.00	71601.00	59865.00
21	1900mm	Metre	71786.00	60020.00	78965.00	66022.00
22	2000mm	Metre	77423.00	64733.00	85166.00	71206.00
	PN 12					
1	200mm	Metre	2553.00	2136.00	2808.00	2350.00
2	250mm	Metre	3429.00	2867.00	3773.00	3154.00
3	300mm	Metre	4014.00	3358.00	4416.00	3694.00
4	350mm	Metre	4995.00	4176.00	5494.00	4594.00
5	400mm	Metre	5447.00	4554.00	5992.00	5010.00
6	450mm	Metre	6387.00	5340.00	7025.00	5874.00
7	500mm	Metre	7254.00	6064.00	7979.00	6670.00
8	600mm	Metre	9825.00	8214.00	10808.00	9036.00
9	700mm	Metre	12410.00	10376.00	13651.00	11414.00
10	800mm	Metre	14989.00	12533.00	16488.00	13786.00
11	900mm	Metre	19271.00	16114.00	21198.00	17726.00
12	1000mm	Metre	22820.00	19080.00	25102.00	20988.00
13	1100mm	Metre	27570.00	23052.00	30328.00	25358.00
14	1200mm	Metre	31508.00	26344.00	34659.00	28978.00
15	1300mm	Metre	34821.00	29114.00	38303.00	32025.00
16	1400mm	Metre	41066.00	34336.00	45172.00	37769.00
17	1500mm	Metre	46654.00	39009.00	51320.00	42910.00
18	1600mm	Metre	51220.00	42826.00	56342.00	47109.00
19	1700mm	Metre	56358.00	47121.00	61993.00	51833.00
20	1800mm	Metre	67375.00	56331.00	74113.00	61964.00
21	1900mm	Metre	74069.00	61929.00	81476.00	68122.00
22	2000mm	Metre	108815.00	90978.00	119696.00	100077.00
	PN 15					
1	200mm	Metre	2601.00	2175.00	2861.00	2392.00
2	250mm	Metre	3478.00	2908.00	3826.00	3198.00
3	300mm	Metre	4129.00	3452.00	4542.00	3797.00
4	350mm	Metre	5164.00	4317.00	5680.00	4749.00
5	400mm	Metre	5663.00	4737.00	6230.00	5211.00
6	450mm	Metre	6635.00	5548.00	7298.00	6102.00
7	500mm	Metre	7522.00	6288.00	8275.00	6917.00

Sl .No	Description	Unit	Rate for 2015-16 in Rupees			
			Stiffness class 248Kpa		Stiffness class 496Kpa	
			With Excise Duty	Without Excise Duty	With Excise Duty	Without Excise Duty
8	600mm	Metre	10231.00	8555.00	11254.00	9411.00
9	700mm	Metre	12910.00	10794.00	14201.00	11874.00
10	800mm	Metre	15777.00	13191.00	17355.00	14510.00
11	900mm	Metre	19977.00	16703.00	21975.00	18374.00
12	1000mm	Metre	24005.00	20073.00	26406.00	22080.00
13	1100mm	Metre	28768.00	24052.00	31645.00	26457.00
14	1200mm	Metre	33033.00	27618.00	36336.00	30381.00
15	1300mm	Metre	36379.00	30419.00	40017.00	33461.00
16	1400mm	Metre	42869.00	35843.00	47156.00	39428.00
17	1500mm	Metre	48719.00	40733.00	53591.00	44806.00
18	1600mm	Metre	53671.00	44874.00	59038.00	49362.00
19	1700mm	Metre	59007.00	49334.00	64908.00	54267.00
20	1800mm	Metre	70331.00	58803.00	77364.00	64683.00

Note: The above rates are inclusive of VAT at 5%, transportation charges anywhere in Tamilnadu and cost of coupling and specials. Excise duty at 12.50%.

10.0 M.S. PIPES- SPIRAL/LONGITUDINAL WELDING AS PER IS 3589/2001 WITH INTERNAL LINING AND EXTERNAL COATING (WITH EXCISE DUTY) MADE WITH FE410

Sl. No.	Dia metre & thickness of pipe in mm	Rate for 2015-16 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 coating & wrapping per metre	External Polyethylene Sheeting per metre	Transportation any where in Tamilnadu per metre
1	168.3X2.6	597.00	320.00	525.00	550.00	690.00	600.00	750.00	275.00
2	168.3X3.2	732.00	320.00	525.00	550.00	690.00	600.00	750.00	275.00
3	168.3X4	912.00	320.00	525.00	550.00	690.00	600.00	750.00	275.00
4	168.3X4.5	1024.00	320.00	525.00	550.00	690.00	600.00	750.00	275.00
5	219.1X2.6	783.00	432.00	699.00	739.00	900.00	780.00	980.00	275.00
6	219.1X3.6	1076.00	432.00	699.00	739.00	900.00	780.00	980.00	275.00
7	219.1X4.5	1300.00	432.00	699.00	739.00	900.00	780.00	980.00	275.00
8	219.1X6.3	1800.00	432.00	699.00	739.00	900.00	780.00	980.00	275.00
9	273X3.6	1346.00	538.00	850.00	922.00	1100.00	1000.00	1249.00	275.00
10	273X4	1493.00	538.00	850.00	922.00	1100.00	1000.00	1249.00	275.00
11	273X5	1850.00	538.00	850.00	922.00	1100.00	1000.00	1249.00	275.00
12	273X6.3	2250.00	538.00	850.00	922.00	1100.00	1000.00	1249.00	275.00
13	323.9X4	1773.00	640.00	980.00	1100.00	1298.00	1192.00	1483.00	275.00
14	323.9X4.5	1840.00	640.00	980.00	1100.00	1298.00	1192.00	1483.00	275.00
15	323.9X5.6	2350.00	640.00	980.00	1100.00	1298.00	1192.00	1483.00	275.00
16	323.9X7.1	3100.00	640.00	980.00	1100.00	1298.00	1192.00	1483.00	275.00
17	355.6X4	1900.00	700.00	1090.00	1103.00	1390.00	1260.00	1600.00	275.00
18	355.6X5	2400.00	700.00	1090.00	1103.00	1390.00	1260.00	1600.00	275.00
19	355.6X5.6	2700.00	700.00	1090.00	1103.00	1390.00	1260.00	1600.00	275.00
20	355.6X8	3700.00	700.00	1090.00	1103.00	1390.00	1260.00	1600.00	275.00
21	406.4X4	2150.00	809.00	1236.00	1329.00	1600.00	1500.00	1800.00	293.00
22	406.4X5	2500.00	809.00	1236.00	1329.00	1600.00	1500.00	1800.00	293.00
23	406.4X6.3	3400.00	809.00	1236.00	1329.00	1600.00	1500.00	1800.00	293.00

Sl. No.	Dia metre & thickness of pipe in mm	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 coating & wrapping per metre	External Polyethy-line Sheeting per metre	Transpo-ration any where in Tamil-nadu per metre
24	406.4X8.8	4700.00	809.00	1236.00	1329.00	1600.00	1500.00	1800.00	293.00
25	457X4	2500.00	900.00	1261.00	1329.00	1850.00	1233.00	1854.00	293.00
26	457X5	3100.00	900.00	1261.00	1329.00	1850.00	1233.00	1899.00	293.00
27	457X6.3	3750.00	900.00	1261.00	1329.00	1850.00	1233.00	1899.00	293.00
28	457X10	6000.00	900.00	1261.00	1329.00	1850.00	1233.00	1899.00	293.00
29	508X5	3450.00	950.00	1350.00	1447.00	1927.00	1371.00	2112.00	351.00
30	508X5.6	3800.00	950.00	1350.00	1447.00	1927.00	1371.00	2112.00	351.00
31	508X6.3	4250.00	950.00	1350.00	1447.00	1927.00	1371.00	2112.00	351.00
32	508X11	7300.00	950.00	1350.00	1447.00	1927.00	1371.00	2110.00	351.00
33	610X5.8	4750.00	1150.00	1600.00	1650.00	2400.00	1643.00	2600.00	440.00
34	610X6.3	5250.00	1150.00	1600.00	1650.00	2400.00	1643.00	2600.00	440.00
35	610X12.5	10000.00	1150.00	1600.00	1650.00	2400.00	1643.00	2600.00	440.00
36	711X6.3	5900.00	1400.00	1900.00	1950.00	2547.00	1922.00	3000.00	440.00
37	711X7.1	6700.00	1400.00	1900.00	1950.00	2730.00	1922.00	3000.00	440.00
38	711X14.2	13500.00	1400.00	1900.00	1950.00	2750.00	1922.00	3000.00	440.00
39	813X7.1	8140.00	1600.00	2150.00	2250.00	2967.00	2050.00	3400.00	585.00
40	813X8	9180.00	1600.00	2150.00	2250.00	3230.00	2050.00	3400.00	585.00
41	813X18	20000.00	1600.00	2150.00	2250.00	3250.00	2050.00	3400.00	585.00
42	914X8	9500.00	1700.00	2300.00	2450.00	3399.00	2400.00	3900.00	850.00
43	914X8.8	10500.00	1700.00	2300.00	2450.00	3500.00	2400.00	3900.00	850.00
44	914X10	11850.00	1700.00	2300.00	2450.00	3500.00	2400.00	3900.00	850.00
45	914X17.5	20500.00	1700.00	2300.00	2450.00	3500.00	2400.00	4438.00	850.00
46	1016X8.8	11800.00	1900.00	2700.00	2900.00	4000.00	2740.00	4882.00	1600.00
47	1016X10	13500.00	1900.00	2700.00	2900.00	4000.00	2740.00	4882.00	1600.00
48	1016X20	26000.00	1900.00	2700.00	2900.00	4000.00	2740.00	4882.00	1600.00

Sl. No.	Dia metre & thickness of pipe in mm	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 coating & wrapping per metre	External Polyethy-line Sheeting per metre	Transpo-ration any where in Tamil-nadu per metre
49	1067X8.8	12300.00	1950.00	2750.00	2904.00	4100.00	2850.00	4882.00	1600.00
50	1067X10	14000.00	1950.00	2750.00	2904.00	4100.00	2850.00	4882.00	1600.00
51	1067X11	15200.00	1950.00	2750.00	2904.00	4100.00	2850.00	4882.00	1600.00
52	1118X8.8	12800.00	2100.00	2800.00	3000.00	4247.00	2910.00	5000.00	1600.00
53	1118X10	14500.00	2100.00	2800.00	3000.00	4247.00	2910.00	5000.00	1600.00
54	1118X11	15745.00	2100.00	2800.00	3000.00	4247.00	2910.00	5000.00	1600.00
55	1219X10	15850.00	2350.00	2900.00	3100.00	4635.00	3288.00	5200.00	1700.00
56	1219X11	17500.00	2350.00	2900.00	3100.00	4635.00	3288.00	5200.00	1700.00
57	1219X12.5	20000.00	2350.00	2900.00	3100.00	4635.00	3288.00	5200.00	1700.00
58	1422X12.5	23150.00	2600.00	3600.00	4200.00	5500.00	3600.00	6000.00	1700.00
59	1422X14.2	26500.00	2600.00	3600.00	4200.00	5500.00	3600.00	6000.00	1700.00
60	1626X14.2	30100.00	3100.00	4100.00	4300.00	6300.00	4385.00	7000.00	2000.00
61	1626X16	34500.00	3100.00	4100.00	4300.00	6300.00	4385.00	7000.00	2000.00
62	1829X14.2	34500.00	3300.00	4600.00	4700.00	7000.00	4600.00	8000.00	2100.00
63	1829X16	38600.00	3300.00	4600.00	4700.00	7000.00	4600.00	8000.00	2100.00
64	1829X17.5	42000.00	3300.00	4600.00	4700.00	7000.00	4600.00	8000.00	2100.00
65	2032X16	43000.00	3750.00	5200.00	5500.00	7800.00	5200.00	8700.00	2297.00
66	2032X17.5	46600.00	3750.00	5200.00	5500.00	7800.00	5200.00	8700.00	2500.00
67	2032X20	52600.00	3750.00	5200.00	5500.00	7800.00	5200.00	8700.00	2500.00
68	2235X17.5	52000.00	4200.00	5700.00	6000.00	8500.00	5700.00	9500.00	2527.00
69	2235X20	60000.00	4200.00	5700.00	6000.00	8500.00	5700.00	9500.00	2527.00
70	2235X22.2	65000.00	4200.00	5700.00	6000.00	8500.00	5700.00	9500.00	2527.00
71	2540X20	70000.00	4800.00	6500.00	6800.00	9900.00	6600.00	11000.00	2781.00
72	2540X22.2	75000.00	4800.00	6500.00	6800.00	9900.00	6600.00	11000.00	2781.00
73	2540X25	85000.00	4800.00	6500.00	6800.00	9900.00	6600.00	11000.00	2781.00

Note: The above rates are inclusive of Excise duty at 12.50% and VAT at 5%.

10.1 M.S. PIPES- SPIRAL/LONGITUDINAL WELDING AS PER IS 3589/2001 WITH INTERNAL LINING AND EXTERNAL COATING (WITHOUT EXCISE DUTY) MADE WITH FE410

Sl. No.	Dia metre & thickness of pipe in mm	Rate for 2015-16 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 coating & wrapping per metre	External Polyethylene Sheeting per metre	Transportation anywhere in Tamil-nadu per metre
1	168.3X2.6	531.00	285.00	467.00	484.00	614.00	534.00	668.00	275.00
2	168.3X3.2	651.00	285.00	467.00	484.00	614.00	534.00	668.00	275.00
3	168.3X4	812.00	285.00	467.00	484.00	614.00	534.00	668.00	275.00
4	168.3X4.5	912.00	285.00	467.00	484.00	614.00	534.00	668.00	275.00
5	219.1X2.6	697.00	385.00	622.00	627.00	801.00	694.00	872.00	275.00
6	219.1X3.6	957.00	385.00	622.00	627.00	801.00	694.00	872.00	275.00
7	219.1X4.5	1157.00	385.00	622.00	627.00	801.00	694.00	872.00	275.00
8	219.1X6.3	1602.00	385.00	622.00	627.00	801.00	694.00	872.00	275.00
9	273X3.6	1198.00	479.00	757.00	781.00	979.00	890.00	1111.00	275.00
10	273X4	1329.00	479.00	757.00	781.00	979.00	890.00	1111.00	275.00
11	273X5	1647.00	479.00	757.00	781.00	979.00	890.00	1111.00	275.00
12	273X6.3	2003.00	479.00	757.00	781.00	979.00	890.00	1111.00	275.00
13	323.9X4	1579.00	570.00	872.00	935.00	1155.00	1062.00	1320.00	275.00
14	323.9X4.5	1638.00	570.00	872.00	935.00	1155.00	1062.00	1320.00	275.00
15	323.9X5.6	2092.00	570.00	872.00	935.00	1155.00	1062.00	1320.00	275.00
16	323.9X7.1	2759.00	570.00	872.00	935.00	1155.00	1062.00	1320.00	275.00
17	355.6X4	1691.00	623.00	970.00	935.00	1237.00	1121.00	1424.00	275.00
18	355.6X5	2136.00	623.00	970.00	935.00	1237.00	1121.00	1424.00	275.00
19	355.6X5.6	2403.00	623.00	970.00	935.00	1237.00	1121.00	1424.00	275.00
20	355.6X8	3293.00	623.00	970.00	935.00	1237.00	1121.00	1424.00	275.00
21	406.4X4	1914.00	719.00	1100.00	1183.00	1424.00	1213.00	1602.00	293.00
22	406.4X5	2225.00	719.00	1100.00	1183.00	1424.00	1213.00	1602.00	293.00
23	406.4X6.3	3026.00	719.00	1100.00	1183.00	1424.00	1213.00	1602.00	293.00

SI. No.	Dia metre & thickness of pipe in mm	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 coating & wrapping per metre	External Polyethy-line Sheeting per metre	Transpo-ration any where in Tamil-nadu per metre
24	406.4X8.8	4183.00	719.00	1100.00	1183.00	1424.00	1213.00	1602.00	293.00
25	457X4	2225.00	801.00	1122.00	1183.00	1647.00	1118.00	1650.00	293.00
26	457X5	2759.00	801.00	1122.00	1183.00	1647.00	1118.00	1690.00	293.00
27	457X6.3	3338.00	801.00	1122.00	1183.00	1647.00	1118.00	1690.00	293.00
28	457X10	5340.00	801.00	1122.00	1183.00	1647.00	1118.00	1690.00	293.00
29	508X5	3071.00	846.00	1202.00	1287.00	1715.00	1242.00	1880.00	351.00
30	508X5.6	3382.00	846.00	1202.00	1287.00	1715.00	1242.00	1880.00	351.00
31	508X6.3	3783.00	846.00	1202.00	1287.00	1715.00	1242.00	1880.00	351.00
32	508X11	6497.00	846.00	1202.00	1287.00	1715.00	1242.00	1880.00	351.00
33	610X5.8	4228.00	1024.00	1424.00	1469.00	2136.00	1463.00	2314.00	440.00
34	610X6.3	4673.00	1024.00	1424.00	1469.00	2136.00	1463.00	2314.00	440.00
35	610X12.5	8900.00	1024.00	1424.00	1469.00	2136.00	1463.00	2314.00	440.00
36	711X6.3	5251.00	1246.00	1691.00	1736.00	2299.00	1711.00	2670.00	440.00
37	711X7.1	5963.00	1246.00	1691.00	1736.00	2430.00	1711.00	2670.00	440.00
38	711X14.2	12015.00	1246.00	1691.00	1736.00	2448.00	1711.00	2670.00	440.00
39	813X7.1	7245.00	1424.00	1914.00	2003.00	2640.00	1825.00	3026.00	585.00
40	813X8	8170.00	1424.00	1914.00	2003.00	2875.00	1825.00	3026.00	585.00
41	813X18	17800.00	1424.00	1914.00	2003.00	2893.00	1825.00	3026.00	585.00
42	914X8	8455.00	1513.00	2047.00	2181.00	3025.00	2136.00	3471.00	850.00
43	914X8.8	9345.00	1513.00	2047.00	2181.00	3115.00	2136.00	3471.00	850.00
44	914X10	10547.00	1513.00	2047.00	2181.00	3115.00	2136.00	3471.00	850.00
45	914X17.5	18245.00	1513.00	2047.00	2181.00	3115.00	2136.00	3471.00	850.00
46	1016X8.8	10502.00	1691.00	2403.00	2581.00	3560.00	2486.00	4206.00	1600.00
47	1016X10	12015.00	1691.00	2403.00	2581.00	3560.00	2486.00	4206.00	1600.00
48	1016X20	23140.00	1691.00	2403.00	2581.00	3560.00	2486.00	4206.00	1600.00

SI. No.	Dia metre & thickness of pipe in mm	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 coating & wrapping per metre	External Polyethylene Sheeting per metre	Transportation any where in Tamilnadu per metre
49	1067X8.8	10947.00	1736.00	2448.00	2585.00	3649.00	2537.00	4345.00	1600.00
50	1067X10	12460.00	1736.00	2448.00	2585.00	3649.00	2537.00	4345.00	1600.00
51	1067X11	13528.00	1736.00	2448.00	2585.00	3649.00	2537.00	4345.00	1600.00
52	1118X8.8	11392.00	1869.00	2492.00	2670.00	3780.00	2590.00	4450.00	1600.00
53	1118X10	12905.00	1869.00	2492.00	2670.00	3780.00	2590.00	4450.00	1600.00
54	1118X11	14013.00	1869.00	2492.00	2670.00	3780.00	2590.00	4450.00	1600.00
55	1219X10	14107.00	2092.00	2581.00	2759.00	4125.00	2926.00	4628.00	1700.00
56	1219X11	15575.00	2092.00	2581.00	2759.00	4125.00	2926.00	4628.00	1700.00
57	1219X12.5	17800.00	2092.00	2581.00	2759.00	4125.00	2926.00	4628.00	1700.00
58	1422X12.5	20604.00	2314.00	3204.00	3120.00	4895.00	3204.00	5340.00	1700.00
59	1422X14.2	23585.00	2314.00	3204.00	3738.00	4895.00	3204.00	5340.00	1700.00
60	1626X14.2	26789.00	2759.00	3649.00	3827.00	5607.00	3978.00	6230.00	2000.00
61	1626X16	30705.00	2759.00	3649.00	3827.00	5607.00	3978.00	6230.00	2000.00
62	1829X14.2	30705.00	2937.00	4094.00	4183.00	6230.00	4094.00	7120.00	2100.00
63	1829X16	34354.00	2937.00	4094.00	4183.00	6230.00	4094.00	7120.00	2100.00
64	1829X17.5	37380.00	2937.00	4094.00	4183.00	6230.00	4094.00	7120.00	2100.00
65	2032X16	38270.00	3338.00	4628.00	4895.00	6942.00	4628.00	7743.00	2297.00
66	2032X17.5	41474.00	3338.00	4628.00	4895.00	6942.00	4628.00	7743.00	2500.00
67	2032X20	46814.00	3338.00	4628.00	4895.00	6942.00	4628.00	7743.00	2500.00
68	2235X17.5	46280.00	3738.00	5073.00	5340.00	7565.00	5073.00	8455.00	2527.00
69	2235X20	53400.00	3738.00	5073.00	5340.00	7565.00	5073.00	8455.00	2527.00
70	2235X22.2	57850.00	3738.00	5073.00	5340.00	7565.00	5073.00	8455.00	2527.00
71	2540X20	62300.00	4272.00	5785.00	6052.00	8811.00	5874.00	9790.00	2781.00
72	2540X22.2	66750.00	4272.00	5785.00	6052.00	8811.00	5874.00	9790.00	2781.00
73	2540X25	75650.00	4272.00	5785.00	6052.00	8811.00	5874.00	9790.00	2781.00

Note: The above rates are inclusive of VAT at 5%.

10.2 MS SPECIALS AS PER IS 1916

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	MS specials with inside lining / epoxy coating and outside coating with cement mortar 25mm thick.	Kg	96.00
2	MS specials without inside lining and outside coating	Kg	88.00
3	MS specials without inside lining and outside coating but with anti rust painting.	Kg	90.00

Note : The above rates are inclusive of Excise duty 12.50% and VAT 5% and transportation charges anywhere in Tamilnadu.

10.3 MS CASING PIPE

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
	Supply and delivery of MS Casing pipes confirming to IS		
1	100 mm	Metre	954.00
2	125 mm	Metre	1152.00
3	150 mm	Metre	1382.00

Note : The above rates are inclusive of Excise duty 12.50% and VAT 5% and transportation charges anywhere in Tamilnadu.

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 resistance cement with 12 mm HI -alumina lining with rubber ring joints.					
Sl. No.	Internal Dia.	Unit	Rate for 2015-16 in Rupees		
			NP2 Class	NP3 Class	NP4 Class
1	200mm	One Metre	668.00	699.00	741.00
2	250mm	One Metre	772.00	824.00	866.00
3	300mm	One Metre	875.00	1056.00	1116.00
4	350mm	One Metre	1210.00	1754.00	1817.00
5	400mm	One Metre	1460.00	1993.00	2056.00
6	450mm	One Metre	1889.00	2454.00	2678.00
7	500mm	One Metre	2288.00	2780.00	3090.00
8	600mm	One Metre	2449.00	3197.00	3562.00
9	700mm	One Metre	3604.00	4878.00	5045.00
10	800mm	One Metre	4196.00	5832.00	6292.00
11	900mm	One Metre	4629.00	6725.00	7274.00
12	1000mm	One Metre	5489.00	7441.00	8598.00
13	1100mm	One Metre	6544.00	10630.00	11837.00
14	1200mm	One Metre	7509.00	12974.00	14285.00
15	1400mm	One Metre	8982.00	16060.00	18300.00
16	1500mm	One Metre	17657.00	19415.00	20255.00
17	1600mm	One Metre	20539.00	23880.00	24825.00

Note: The rate is inclusive of VAT at 5 % and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra. Excise duty at 12.50% extra

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

Sl. No.	Internal Dia.	Unit	Rate for 2015-16 in Rupees		
			NP2 Class	NP3 Class	NP4 Class
1	200mm	Each	34.00	39.00	46.00
2	250mm	Each	39.00	46.00	54.00
3	300mm	Each	46.00	54.00	60.00
4	350mm	Each	54.00	66.00	72.00
5	400mm	Each	73.50	88.00	92.00
6	450mm	Each	94.50	105.00	106.00
7	500mm	Each	105.00	126.00	126.00
8	600mm	Each	126.00	158.00	164.00
9	700mm	Each	165.00	192.00	206.00
10	800mm	Each	189.00	226.00	232.00
11	900mm	Each	252.00	284.00	291.00
12	1000mm	Each	315.00	357.00	357.00
13	1100mm	Each	378.00	483.00	483.00
14	1200mm	Each	504.00	605.00	609.00
15	1400mm	Each	630.00	777.00	777.00
16	1500mm	Each	767.00	987.00	987.00
17	1600mm	Each	846.00	1155.00	1155.00

Note: The rate is inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50% extra

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

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	50 mm	Each	3863.00	3502.00
2	65mm	Each	4651.00	4072.00
3	80mm	Each	4869.00	4413.00
4	100mm	Each	6488.00	5882.00
5	125mm	Each	8124.00	7365.00
6	150mm	Each	9782.00	8869.00
7	200mm	Each	17079.00	15484.00
8	250mm	Each	27251.00	24537.00
9	300mm	Each	33953.00	30784.00
10	350mm	Each	52793.00	47466.00
11	400mm	Each	67244.00	60458.00
12	450mm	Each	85004.00	76426.00
13	500mm	Each	106814.00	96036.00
14	600mm	Each	157035.00	141188.00
15	700mm	Each	298822.00	270918.00
16	750mm	Each	341204.00	306771.00
17	800mm	Each	412383.00	370768.00
18	900mm	Each	553781.00	502068.00
19	1000mm	Each	696153.00	631145.00
20	1100mm	Each	982071.00	882968.00
21	1200mm	Each	1081903.00	980873.00

Note: TThe above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu.Excise duty at 12.50%

**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**

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	50 mm	Each	3867.00	3506.00
2	65 mm	Each	4525.00	4103.00
3	80 mm	Each	5491.00	4981.00
4	100 mm	Each	7083.00	6423.00
5	125 mm	Each	8832.00	8007.00
6	150 mm	Each	10740.00	9739.00
7	200 mm	Each	21540.00	19528.00
8	250 mm	Each	31754.00	28789.00
9	300 mm	Each	41503.00	37629.00
10	350 mm	Each	65276.00	59181.00
11	400 mm	Each	86581.00	77756.00
12	450 mm	Each	120217.00	108990.00
13	500 mm	Each	173217.00	157040.00
14	600 mm	Each	225897.00	202871.00

Note : The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50%

12.2 C.I. DOUBLE AIR VALVE AS PER ISI 14845/2000

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	40 mm	Each	4692.00	4253.00
2	50 mm	Each	5793.00	5253.00
3	80 mm	Each	7832.00	7101.00
4	100 mm	Each	10663.00	9668.00
5	150mm	Each	21373.00	19377.00
6	200mm	Each	33554.00	30169.00

Note : The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50%.

12.3 CI SINGLE AIR VALVE AS PER ISI 14845/2000

Sl.No	Description	Unit	Rate for 2015-16 in Rupees.	
			With Excise duty	Without Excise duty
1	15mm	Each	1113.00	1010.00
2	25 mm	Each	1605.00	1454.00
3	40 mm	Each	2005.00	1817.00
4	50 mm	Each	2222.00	2014.00
5	80 mm	Each	2974.00	2698.00
6	100 mm	Each	3241.00	2937.00
7	150mm	Each	6053.00	5489.00

Note: The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise duty at 12.50%.

12.4 DI SINGLE CHAMBER AIR RELEASE VALVE

Manufacture, Supply and Delivery of Tamper proof DI single chamber air release valves with pressure range from PN 1.0 to 2.5 with body and cover made of Ductile Iron of Grade GGG 40/45/50 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 for DN 50 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

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	50mm	Each	26681.00
2	80mm	Each	35595.00
3	100mm	Each	41558.00
4	150mm	Each	50592.00
5	200mm	Each	59025.00

Note: The rates are inclusive of Transportation charges.
Excise duty at 12.50% and VAT at 5% extra.

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.

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	100mm	1No.	8001.00
2	125mm	1No.	9915.00
3	150mm	1No.	12874.00
4	200mm	1No.	22066.00
5	250mm	1No.	29731.00
6	300mm	1No.	41033.00
	With spur gear arrangements		
7	350mm	1No.	65990.00
8	400mm	1No.	85971.00
9	450mm	1No.	106256.00
10	500mm	1No.	133518.00
11	600mm	1No.	196292.00

Note : The rate is inclusive of taxes, duties and handling charges. Excise duty at 12.50%, VAT at 5%

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

12.6.1 WAFER LINER

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	100mm	1 No.	3093.00
2	150mm	1 No.	4384.00
3	200mm	1 No.	12168.00
4	250mm	1 No.	15709.00
5	300mm	1 No.	21106.00

12.6.2 D/F GEAR OPERATED

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	400mm	1 No.	83193.00
2	450mm	1 No.	97643.00
3	500mm	1 No.	105514.00
4	600mm	1 No.	123481.00

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. The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

12.7 NON RETURN VALVES

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

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	100mm	1 No.	3730.00
2	150mm	1 No.	8306.00
3	200mm	1 No.	15234.00
4	250mm	1 No.	26544.00
5	300mm	1 No.	33911.00

12.7.2 DOUBLE FLANGED (DUAL PLATE CHECK VALVE)

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	400mm	1 No.	84550.00
2	450mm	1 No.	92611.00
3	500mm	1 No.	103046.00
4	600mm	1 No.	127339.00
5	700mm	1 No.	218653.00
6	800mm	1 No.	362083.00
7	900mm	1 No.	506367.00
8	1000mm	1 No.	658582.00
9	1100mm	1 No.	823111.00
10	1200mm	1 No.	1983462.00

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. The rates are inclusive of duties, all taxes, transportation charges etc.Excise duty 12.50%, VAT 5%

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

CI Single Door/ Multy 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.

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	300mm	1 No.	63787.00
2	350mm	1 No.	93974.00
3	400mm	1 No.	118117.00
4	450mm	1 No.	156174.00
5	500mm	1 No.	204697.00
6	600mm	1 No.	314547.00
7	700/750mm	1 No.	493376.00
8	800mm	1 No.	572768.00
9	900mm	1 No.	1150610.00
10	1000mm	1 No.	1495915.00
11	1100mm	1 No.	1841221.00
12	1200mm	1 No.	2071221.00

Note : The rates are inclusive of duties, all taxes, transportation charges etc.Excise duty 12.50%, VAT 5%

12.8 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)

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	50mm	1 No.	12618.00
2	80mm	1 No.	15618.00
3	100mm	1 No.	20987.00
4	150mm	1 No.	38563.00
5	200mm	1 No.	52742.00

Note : The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

12.9 DI D/F GATE VALVES

Supply and Delivery of DI D/F Gate Valves (soft seated) resilient seated soft sealing gate valves (sluice valves) with body bonnet of ductile cast iron of grade GGG 40/45/50, 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 EPR BS 5163-89/ ISI 14846-2000/ DIN 3202 F 4. All the valves should be with electrostatic powder coating both inside and outside with pocket less straight thro' body passage. All the valves are to be compatible for buried application with pressure rating PN 10/16

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	50mm	1 No.	9529.00
2	80mm	1 No.	11766.00
3	100mm	1 No.	15512.00
4	150mm	1 No.	24424.00
5	200mm	1 No.	40588.00
6	250mm	1 No.	58924.00
7	300mm	1 No.	84956.00
8	350mm	1 No.	236028.00
9	400mm	1 No.	292261.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

12.10 DI D/F BUTTERFLY VALVES

Supply and Delivery of DI D/F Butterfly Valves with GGG 40/45/50 or equivalent grade as per IS 3896 (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 microfinished 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

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees	
			PN 10	PN 16
1	400mm	1 No.	169397.00	231391.00
2	450mm	1 No.	236378.00	254020.00
3	500mm	1 No.	240085.00	256442.00
4	600mm	1 No.	313269.00	336101.00
5	700mm	1 No.	469903.00	564385.00
6	800mm	1 No.	592063.00	710819.00
7	900mm	1 No.	761466.00	888386.00
8	1000mm	1 No.	980667.00	1144703.00
9	1100mm	1 No.	1294363.00	1356165.00
10	1200mm	1 No.	1541238.00	1545350.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

12.11 DI Non - Return Valve

Manufacture, Supply and Delivery of DI D/F Slanted seat Swing Check Valve. Body of ductile cast iron GGG 40/45/50 or equivalent grade and disc of ductile cast iron GGG 40/45/50 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.

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	40mm	1 No.	11427.00
2	50mm	1 No.	11763.00
3	65mm	1 No.	15047.00
4	80mm	1 No.	16354.00
5	100mm	1 No.	19308.00
6	125 mm	1 No.	29400.00
7	150mm	1 No.	36966.00
8	200 mm	1 No.	58805.00
9	250mm	1 No.	112591.00
10	300mm	1 No.	154095.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc., Excise duty 12.50%, VAT 5%.

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).

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	40mm	1 No.	11886.00
2	50mm	1 No.	11886.00
3	65mm	1 No.	12284.00
4	80mm	1 No.	13374.00
5	100mm	1 No.	15688.00
6	125 mm	1 No.	17784.00
7	150mm	1 No.	27015.00
8	200 mm	1 No.	31936.00
9	250mm	1 No.	53326.00
10	300mm	1 No.	89162.00
11	350mm	1 No.	136192.00
12	400mm	1 No.	185880.00
13	450mm	1 No.	311144.00
14	500mm	1 No.	318589.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc., Excise duty 12.50%, Vat 5%

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 40/45/50, 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 isa 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

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees	
			PN 10	PN 16
1	200mm	1 No.	443230.00	443230.00
2	250mm	1 No.	446136.00	446136.00
3	300mm	1 No.	448115.00	448115.00
4	350mm	1 No.	507778.00	507778.00
5	400mm	1 No.	499118.00	499118.00
6	450mm	1 No.	683621.00	688305.00
7	500mm	1 No.	608664.00	672072.00
8	600mm	1 No.	828617.00	842433.00
9	700mm	1 No.	1826726.00	1869468.00
10	800mm	1 No.	2123389.00	2204370.00
11	900mm	1 No.	2417943.00	2538850.00
12	1000mm	1 No.	2958367.00	2995930.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%.

12.14 DI Diaphragm Type Flow Control Valve

"Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled valve with cast body of ductile iron grade GGG 40/45/50 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour, preformed 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. Pilot valve system having SS/ Brass fittings as per Standard parts according to DIN 2353/EN ISO 8434/ EN 12164, all external tubing parts of SS 1.4571, Tightness to DIN EN 12 266-1, leakage rate A (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]/ , 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."

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	50mm	1 No.	347341.00
2	65mm	1 No.	375028.00
3	80mm	1 No.	374788.00
4	100mm	1 No.	398812.00
5	125 mm	1 No.	430881.00
6	150mm	1 No.	492848.00
7	200 mm	1 No.	751948.00
8	250mm	1 No.	1064058.00
9	300mm	1 No.	1590535.00
10	350mm	1 No.	1859703.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc.Excise duty 12.50%, VAT 5%

12.15 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 40/45/50 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".

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	50mm	1 No.	109332.00
2	80mm	1 No.	120645.00
3	100mm	1 No.	145063.00
4	150mm	1 No.	206411.00
5	200 mm	1 No.	303354.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

12.16 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-40/45/50, or equivalent grade, 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/ Seat shall be by linear / Quadring Seal (twist free operation). The valve shall be designed to operate smoothly throughout the specified flow range without cavitations. Corrosion protected medium free bearing/guide 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/Seal Disc and the attached control cylinders/ Seat. Plunger /Stem, Seat shall be by means of stainless steel crank drive mechanism/ Pilot Controlled. Face-to-face dimensions EN558-1 basic series 15 and 1.5X DN from DN 500 and flange connections as per EN1092-2 /ISO 7005[DIN]".

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	150mm	1 No.	763821.00
2	200mm	1 No.	877796.00
3	250mm	1 No.	1159751.00
4	300mm	1 No.	1431061.00
5	400 mm	1 No.	2138282.00
6	450mm	1 No.	2858745.00
7	500 mm	1 No.	3783534.00
8	600mm	1 No.	5499924.00
9	700mm	1 No.	6164307.00
10	800mm	1 No.	7167764.00
11	900mm	1 No.	9549056.00
12	1000mm	1 No.	10933124.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

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).

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
a.	40mm (1 lpm to 400lpm adjustable type arrangements)	Each	5150.00
b	100mm (20 lpm to 2000 lpm adjustable type arrangements)	Each	18900.00

Note: The rates are inclusive of duties, all taxes, transportation charges etc. Excise duty 12.50%, VAT 5%

13.0 SALT GLAZED STONEWARE PIPE AS PER IS 651-2007 OF 0.6 M LENGTH OF 0.6 M LENGTH CLASS SP1

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	100mm	Each	91.00
2	150mm	Each	158.00
3	200mm	Each	241.00
4	250mm	Each	392.00
5	300mm	Each	615.00

13.1 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1000MM length with Rubber Gasket Class SP1

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	150mm	Each	400.00
2	200mm	Each	571.00
3	250mm	Each	1070.00

13.2 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1200MM length with Rubber Gasket Class SP1

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	150mm	Each	482.00
2	200mm	Each	687.00
3	250mm	Each	1297.00

Note: Excise duty 'Nil'. The rate is inclusive of VAT at 5% and transportation charges to stockyard anywhere in Tamilnadu. Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.

14.0 SULPHATE RESISTANT CEMENT AS PER IS 12330/1988

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Sulphate Resistant Cement as per IS 12330/1988 and as amended from time to time.	MT	7500.00

Note: The rate is inclusive of duties all taxes and at F.O.R destination

15.0 FIBER REINFORCED CONCRETE FRAME AND COVER AS PER TYPE HD - 20, IS 12592/2002 , PART 1 & 2

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	56cm dia heavy duty	Each	3040.00
2	56cm dia extra heavy duty	Each	3326.00
3	60 cm dia heavy duty	Each	3119.00
4	60 cm dia extra heavy duty	Each	3871.00

Note: Excise duty 'Nil'. The rate is inclusive of VAT at 14.5% and transportation charges anywhere in Tamilnadu.

16.0 WATER METER CONFORMING TO ISO 4064, IS 779 AND IS 2373 & DIRT BOX STRAINER

Supply and delivery of Woltman model with removal mechanism water meters conforming to ISO 4064 part I, II, III class B and also IS 779 and IS 2373. The water meters 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 class B specification. Dry dial excavated counter housing fully protected against flooding ensuring easy reading in all climates.

SI.No.	Description	Unit	Rate for 2015-16 in Rupees		
			Water meter	Dirt Box	Erection Charges
1	15 mm	Each	1222.00	-	265.00
2	20mm	Each	1542.00	-	370.00
3	25mm	Each	4188.00	-	762.00
4	40mm	Each	8072.00	-	1680.00
5	50mm	Each	9906.00	3095.00	2325.00
6	80mm	Each	12890.00	5013.00	2900.00
7	100mm	Each	16232.00	6147.00	4515.00
8	150mm	Each	26496.00	10221.00	5575.00
9	200mm	Each	29838.00	12359.00	6615.00
10	250mm	Each	66836.00	26565.00	7875.00
11	300mm	Each	112850.00	47322.00	8035.00
12	400mm	Each	196150.00	78771.00	8190.00
13	500mm	Each	222550.00	114576.00	8200.00

- Note:
1. Excise Duty 'Nil' for Watermeter and Dirtbox Strainer.
 2. The rate is inclusive of TNVAT at 5% and transportation charges anywhere in Tamilnadu.
 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 ORIFICE TYPE ELECTRONIC WATER METER

Supply, delivery, fixing testing and commissioning of best efficient Orifice Type Electronic Water meter using differential pressure sensing element with flange insertable orifice plate suitable for D, D/2 tapping as per BS1042 specification. the meter should be suitable to be connected to convertor to give a remote indication of totalisation and flow rate with a option for computer connectivity including sensor and totaliser including all taxes, duties and handling charges.

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	150 to 450mm	1 No.	222600.00
2	475 to 750mm	1 No.	251647.00
3	775 to 1200mm	1 No.	323820.00

Note: The rate includes Excise duty at 12.50%, VAT at 5% handling and installation charges.

16.2 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 units of kiloliters and shall be accurate within 0.5% of Measured value, shall operate within a range of 0.3m/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 street 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 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 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. 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 and empty pipe zero return. The signal converter housing should be die-cast aluminium 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.

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	10MM	1 No.	86751.00
2	25 MM	1 No.	93980.00
3	50 MM	1 No.	101210.00
4	80 MM	1 No.	108439.00
5	100 MM	1 No.	130127.00
6	125 MM	1 No.	144585.00
7	150MM	1 No.	173502.00
8	200MM	1 No.	209648.00
9	250MM	1 No.	238565.00
10	300 MM	1 No.	267482.00
11	350MM	1 No.	361463.00
12	400MM	1 No.	433755.00
13	450MM	1 No.	520506.00
14	500 MM	1 No.	607257.00

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
15	600MM	1 No.	795218.00
16	700 MM	1 No.	838593.00
17	800MM	1 No.	954261.00
18	900 MM	1 No.	1127763.00
19	1000 MM	1 No.	1373558.00
20	1200 MM	1 No.	1518143.00
21	1400MM	1 No.	1879605.00
22	1600MM	1 No.	2168775.00
23	1800 MM	1 No.	2747115.00
24	2000 MM	1 No.	3543750.00
25	2200 MM	1 No.	3661875.00
26	2400MM	1 No.	4134375.00
27	2600 MM	1 No.	4547813.00
28	2800 MM	1 No.	5197500.00
29	3000 MM	1 No.	5670000.00

Note: The rate includes Excise duty at 12.50%, VAT at 5% handling and installation charges.

17.0 HDPE TANK

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	SSupply 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.	1600.00
	500 litres	1 No.	3850.00
	1000 litres	1 No.	7700.00
	2000 litres	1 No.	18000.00
	5000 litres	1 No.	43000.00
	10000 litres	1 No.	90000.00

The above rates are inclusive of Excise duty 12.50% and VAT at 5%

18.0 MS KIOSK

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	SSupply and delivery of MS Kiosk of size 0.75m x 0.45m x 0.75m made up of MS angle of size 50mm x 50mm x 4mm around 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	8000.00

The above rates are inclusive of Excise duty 12.50% and VAT at 5%

19.0 MS LADDER

SI No.	Description	Unit	Rate for 2015-2016 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	19800
b	2. 20000 litres with - 7.5m staging height	Each	19800
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) IIrd 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	97000
b	40000 litres capacity at 12.0m staging height	Each	97000
c	50000 litres capacity at 12.0m staging height	Each	97000
d	60000 litres capacity at 12.0m staging height	Each	97000
e	100000 litres capacity at 12.0m staging height	Each	97000

The above rates are exclusive of Excise duty 12.50% and VAT at 5%

20.0 MS DOOR / WINDOW/VENTILATOR

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	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	6650.00
ii.	Fully panelled Double leaf - Door	1.00m x 2.10 m	5800.00
iii.	Fully panelled Double leaf - Door	1.00m x 2.00 m	4250.00
iv.	Fully panelled Single leaf - Door	0.75 m x 2.10 m	3550.00
v	Fully panelled Single leaf - Door	0.90 m x 2.00 m	3800.00
vi.	Fully panelled Single leaf - Door	0.90 m x 2.10 m	4200.00
vii	Fully panelled Single leaf - Door	1.00 m x 2.00 m	3950.00
viii	Fully panelled Double leaf - Window (without Ventilator)	1.20 m x 0.90 m	3150.00
ix	Fully panelled Double leaf - Window (without Ventilator)	0.60 m x 0.90 m	2300.00
x	Ventilator	0.45 m x 0.60 m	1450.00

The above rates are inclusive of Excise duty 12.50% and VAT at 5%

21.0 Water Disinfection Equipment using Silver-Ionisation process

Specification: Supply, delivery, erection and commissioning of the following capacity of micro processor based water disinfection equipment using silver ionization process based on Oligodynamic technology, suitable to provide directly to pumping main, or to sump or to overhead tank, with by-pass arrangements, controlling valves, micro processor based control panel, in-built transformer, relay miniature circuit breaker, tool kits, spares etc. The water chambers are made of corrosion free stainless steel confirm to SS 304 investment casting, capable to withstand a pressure of 10 Ksc with inbuilt electrodes mounted on powder coated mild steel cabinet of 20gg thickness with universal lock and key for safety. The control panel should have pump active indication to show that the water is flowing inside the chamber, electrode OK indication- to show that the electrode is working, Electrode high indication to show that electrode is clogged and electrode low indication to show that electrode is nearing completion, for easy maintenance of the equipment. The silver ions produced by the electrode is totally non toxic at the dosed levels, as permitted by BIS standard and the residual effect of the disinfectant is long lasting for more than 2 days. The equipment is powered by a single phase 220V/50Hz power supply and provided with an on site disinfectant analysing kit with consumables to do a minimum of 10 tests. The efficacy of the equipment must be proved by the reputed laboratories like NEERI, Nagpur, ITRC, Luknow.

Sl. No.	Capacity of water disinfection equipment in litres/ hour	Unit	Rate for 2015-16 in Rupees.
1	1000	Each	23285.00
2	2000	Each	27942.00
3	3000	Each	53900.00
4	5000	Each	56300.00
5	10000	Each	100800.00
6	15000	Each	109001.00
7	25000	Each	218000.00
8	50000	Each	402000.00
9	100000	Each	538000.00
10	200000	Each	1059000.00
11	300000	Each	1580000.00
12	400000	Each	2100000.00
13	500000	Each	2638000.00

- Note : 1. Excise Duty is 'Nil'. The rate is inclusive of transportation and VAT etc.,
2. The rate is inclusive of electrodes in-built with equipment.

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.

Sl.No.	Capacity LPH	Life of electrodes in million litre at dosage		Rate for 2015-16 in Rupees
		0.01mg/lit	0.005mg/lit	
1	1,000			2318.00
2	2,000			3864.00
3	3,000	6	12	5893.00
4	5,000	8	16	6547.00
5	10,000	9	18	7200.00
6	15,000	15	30	9821.00
7	25,000	30	60	25872.00
8	50,000	60	120	52365.00
9	1,00,000	120	240	104730.00
10	2,00,000	240	480	209459.00
11	3,00,000	360	720	313599.00
12	4,00,000	480	960	418920.00
13	5,00,000	600	1,200	523650.00

The above rates are inclusive of VAT at 5% and transportation charges anywhere in Tamilnadu. Excise Duty 'Nil'

21.2 ELECTRO CHLORINATOR BASED ON COMMON SALT

Sl.No.	Capacity in litres per day	Rate for 2015-16 in Rupees.
1	50,000	47301.00
2	100,000	59901.00
3	150,000	81001.00
4	200,000	92500.00
5	2,50,000	112001.00
6	3,00,000	124000.00
7	3,50,000	139147.00
8	4,00,000	146001.00
9	4,50,000	155000.00
10	5,00,000	156501.00
11	10,00,000	383900.00
12	20,00,000	563601.00
13	30,00,000	740001.00
14	40,00,000	910001.00
15	50,00,000	1065001.00
16	60,00,000	1383001.00
17	70,00,000	1490001.00
18	80,00,000	1567001.00
19	90,00,000	1740001.00
20	1,00,00,000	1973001.00

The above rates are inclusive of excise duty at 12.50%, VAT at 5% and transportation charges anywhere in Tamilnadu.

22.0 PROVIDING EPOXY COATING TO REINFORCEMENT STEEL BARS

SI No.	Description	unit	Rate for 2015-16 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. (inclusive of all taxes)		
a.	for 8mm to 16mm	MT	14272.00
b.	for 20mm to 32mm	MT	10819.00

Note : The above rates are inclusive of excise duty at 12.50%, VAT at 5% Transportation charges included.

23.0 MECHANICAL JOINT COLLARS

SI No.	Description	Unit	Rate for 2015-16 in Rupees.
	Supply and Delivery of MJ Collars.		
1	100mm	Each	2669.00
2	150mm	Each	4244.00
3	200mm	Each	5540.00
4	250mm	Each	7712.00
5	300mm	Each	10011.00
6	350mm	Each	14293.00
7	400mm	Each	17025.00
8	450mm	Each	19693.00
9	500mm	Each	25140.00
10	600mm	Each	32080.00

Note : The above rates are inclusive of Excise duty 12.50% and VAT at 5%

23.1 JOINTING OF MECHANICAL JOINT COLLARS

SI No.	Description	unit	Rate for 2015-16 in Rupees.
	Labour charges for jointing of mechanical joint collar, nuts, gasket and fixing in position as directed by departmental officers.		
1	100mm	Joint	69.00
2	150mm	Joint	166.00
3	200mm	Joint	172.00
4	250mm	Joint	254.00
5	400mm	Joint	534.00
6	450mm	Joint	590.00
7	600mm	Joint	1080.00

Note : The above rates are exclusive of excise duty at 12.50%, VAT at 5% Transportation charges included.

24.0 DISJOINTING OF GI PIPES

SI No.	Description	unit	Rate for 2015-16 in Rupees.
	Disjointing of GI pipes as directed by the departmental officers		
1	Upto 80mm	Each	39.00
2	Above 80mm	Each	53.00

24.1 WELDING OF G.I. PIPES

SI No.	Description	unit	Rate for 2015-16 in Rupees.
1	Welding of GI pipes as directed by the departmental officers for the sizes		
a)	Upto 80 mm	One Welding Joint	131.00
b)	Above 80mm	One Welding Joint	147.00

24.2 STAINLESS STEEL CLAMP

SI No.	Description	unit	Rate for 2015-16 in Rupees.
	Supply & delivery of Wrap around type single section stainless steel clamp of width suitable for attending leakage in pipelines.		
I	Suitable for AC Pipes		
	Class 10		
1	150NB	1 No.	5600.00
2	200NB	1 No.	6500.00
3	250NB	1 No.	7350.00
4	300NB	1 No.	7900.00
5	350NB	1 No.	8700.00
6	400NB	1 No.	9350.00
7	450NB	1 No.	10400.00
	Class 15		
1	150NB	1 No.	5800.00
2	200NB	1 No.	6750.00
3	250NB	1 No.	7550.00
4	300NB	1 No.	8150.00
5	350NB	1 No.	8900.00
6	400NB	1 No.	9550.00
7	450NB	1 No.	10700.00
	Class 20		
1	150NB	1 No.	6000.00
2	200NB	1 No.	7000.00
3	250NB	1 No.	7800.00
4	300NB	1 No.	8500.00
5	350NB	1 No.	9100.00
6	400NB	1 No.	9850.00
7	450NB	1 No.	11000.00
II	Suitable for Cast Iron or Ductile Iron Pipes		
1	4" Dia	1 No.	4400.00
2	6" Dia	1 No.	5200.00
3	8" Dia	1 No.	6150.00
4	10" Dia	1 No.	7100.00

SI No.	Description	unit	Rate for 2015-16 in Rupees.
5	12" Dia	1 No.	7600.00
6	14" Dia	1 No.	8400.00
7	16" Dia	1 No.	8950.00
8	18" Dia	1 No.	9750.00
9	20" Dia	1 No.	10700.00
III	Suitable for PSC Pipes		
1	300 NB	1 No.	8800.00
2	350 NB	1 No.	9600.00
3	400 NB	1 No.	10400.00
4	450 NB	1 No.	11100.00
5	500 NB	1 No.	12000.00
IV	Suitable for HDPE Pipes		
1	110 mm OD	1 No.	4300.00
2	140 mm OD	1 No.	4700.00
3	160 mm OD	1 No.	5000.00
4	180 mm OD	1 No.	5500.00
5	200 mm OD	1 No.	6000.00
6	225 mm OD	1 No.	6500.00
7	250 mm OD	1 No.	6800.00
8	280 mm OD	1 No.	7250.00
9	315 mm OD	1 No.	7500.00
10	355 mm OD	1 No.	8000.00
11	400 mm OD	1 No.	8500.00
12	450 mm OD	1 No.	9500.00
13	500 mm OD	1 No.	10300.00
14	566 mm OD	1 No.	14400.00

Note: The above rates are inclusive of excise duty at 12.50%. VAT at 5% and Transportation charges are Extra.

RATES FOR PUMP SETS

For individual specifications for various items regarding pump sets & Electrical Equipments, the specifications already given in the Manual for Pump sets should be followed.

1.0 CENTRIFUGAL MONOBLOC PUMPSET WITH ISI MARK AS PER IS 9079/2002 WITHOUT PANEL BOARD (3 PHASE)

SI.No.	Duty lpmxm	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
1	100x20	1.5	1 No	9087.00
2	150x20	1.5	1 No	13388.00
3	200x20	2	1 No	13911.00
4	250x20	2	1 No	15397.00
5	300x20	3	1 No	16718.00
6	350x20	3	1 No	16718.00
7	400x20	3	1 No	16718.00
8	450x20	3	1 No	16718.00
9	500x20	3	1 No	18467.00
10	700x20	5	1 No	20899.00
11	50x35	2	1 No	14449.00
12	100x35	2	1 No	16420.00
13	150x35	3	1 No	19859.00
14	200x35	3	1 No	22357.00
15	250x35	5	1 No	25122.00
16	300x35	5	1 No	25122.00
17	350x35	5	1 No	25122.00
18	400x35	5	1 No	26464.00
19	450x35	5	1 No	26464.00
20	500x35	5	1 No	26464.00
21	50x50	2	1 No	22355.00
22	100x50	5	1 No	25122.00
23	150x50	5	1 No	25122.00
24	200x50	7.5	1 No	26862.00
25	250x50	7.5	1 No	26862.00
26	300x50	7.5	1 No	26862.00
27	350x50	7.5	1 No	35117.00
28	400x50	7.5	1 No	35117.00
29	500x60	10	1 No	38281.00

Note: Duty of the Pumpset is the criteria for the rates. Rates are excluding Excise duty @6% and VAT at 5%.

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

SI.No.	Duty lpmxm	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
1	15x40	0.50	1 No	15145.00
2	15x50	0.75	1 No	15145.00
3	15x60	0.75	1 No	15747.00
4	15x70	0.75	1 No	18195.00
5	15x80	1.00	1 No	18195.00
6	15x90	1.00	1 No	18195.00
7	15x100	1.00	1 No	20757.00
8	15x125	1.50	1 No	23581.00
9	15x150	2.00	1 No	25386.00
10	20x40	0.50	1 No	15747.00
11	20x50	0.75	1 No	15747.00
12	20x60	0.75	1 No	15747.00
13	20x70	1.00	1 No	18195.00
14	20x80	1.00	1 No	18195.00
15	20x90	1.00	1 No	18531.00
16	20x100	1.00	1 No	22101.00
17	20x125	1.50	1 No	23581.00
18	20x150	2.00	1 No	25238.00

Note: Duty of the Pumpset is the criteria for the rates. Rates are excluding Excise duty @6% and VAT at 5%.

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

SI.No.	Duty lpmxm	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
1	30x40	0.50	1 No	15685.00
2	30x50	0.75	1 No	15832.00
3	30x60	0.75	1 No	16615.00
4	30x70	0.75	1 No	17508.00
5	30x80	1.00	1 No	20129.00
6	30x90	1.00	1 No	21950.00
7	30x100	1.50	1 No	21950.00
8	30x125	2.00	1 No	24059.00
9	40x40	0.75	1 No	15685.00
10	40x50	0.75	1 No	16615.00
11	40x60	1.00	1 No	16615.00
12	40x70	1.00	1 No	21733.00
13	40x80	1.00	1 No	22672.00
14	40x90	1.50	1 No	24430.00
15	40x100	1.50	1 No	24430.00

Note: Duty of the Pumpset is the criteria for the rates. Rates are excluding Excise duty @6% and VAT at 5%.

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

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
1	50x40	2.00	1 No	21602.00
2	50x50	2.00	1 No	23804.00
3	50x60	2.00	1 No	24973.00
4	50x75	3.00	1 No	26624.00
5	50x100	3.00	1 No	34788.00
6	50x125	4.00	1 No	34822.00
7	50x175	5.00	1 No	44770.00
8	50x200	6.00	1 No	49005.00
9	50x225	7.50	1 No	59333.00
10	50x250	7.50	1 No	63851.00
11	50x275	10.00	1 No	73574.00
12	75x40	2.00	1 No	23064.00
13	75x50	3.00	1 No	23804.00
14	75x60	3.00	1 No	24973.00
15	75x75	3.00	1 No	28478.00
16	75x100	4.00	1 No	34788.00
17	75x125	4.00	1 No	41558.00
18	75x150	5.00	1 No	44014.00
19	75x175	5.00	1 No	44014.00
20	75x200	7.50	1 No	48136.00
21	75x225	7.50	1 No	63738.00
22	75x250	10.00	1 No	69980.00
23	75x275	10.00	1 No	73574.00
24	100x30	1.50	1 No	21602.00
25	100x40	2.00	1 No	23064.00
26	100x50	3.00	1 No	25218.00
27	100x60	3.00	1 No	26624.00
28	100x75	3.00	1 No	31392.00
29	100x100	4.00	1 No	37123.00
30	100x125	5.00	1 No	42646.00

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
31	100x175	6.00	1 No	42646.00
32	100x200	7.50	1 No	46544.00
33	100x225	10.00	1 No	60618.00
34	100x250	10.00	1 No	68838.00
35	125x25	1.50	1 No	21810.00
36	125x40	3.00	1 No	23064.00
37	125x50	3.00	1 No	25061.00
38	125x60	3.00	1 No	27728.00
39	125x75	3.00	1 No	30785.00
40	125x100	4.00	1 No	36079.00
41	125x125	6.00	1 No	42661.00
42	125x200	10.00	1 No	56203.00
43	125x225	10.00	1 No	65217.00
44	150x25	1.50	1 No	21810.00
45	150x40	3.00	1 No	23064.00
46	150x50	3.00	1 No	23804.00
47	150x60	3.00	1 No	27728.00
48	150x75	3.00	1 No	30785.00
49	150x100	5.00	1 No	40027.00
50	150x125	6.00	1 No	40027.00
51	175x40	3.00	1 No	23064.00
52	175x50	3.00	1 No	27572.00
53	175x60	5.00	1 No	28356.00
54	175x75	5.00	1 No	28356.00
55	175x100	6.00	1 No	35427.00
56	200x25	2.00	1 No	21810.00
57	200x40	3.00	1 No	23064.00
58	200x50	3.00	1 No	28356.00
59	200x60	5.00	1 No	31392.00
60	200x75	5.00	1 No	31392.00
61	200x100	7.50	1 No	42185.00

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
62	200x125	10.00	1 No	47725.00
63	250x40	3.00	1 No	23064.00
64	250x50	5.00	1 No	28356.00
65	250x60	5.00	1 No	31392.00
66	250x75	6.00	1 No	37584.00
67	250x100	7.50	1 No	46947.00
68	250x125	10.00	1 No	53483.00
69	300x40	5.00	1 No	28012.00
70	300x50	6.00	1 No	31866.00
71	300x60	6.00	1 No	37584.00
72	300x75	7.50	1 No	43618.00
73	300x100	10.00	1 No	52006.00
74	350x40	5.00	1 No	29473.00
75	350x50	6.00	1 No	32792.00
76	350x60	7.50	1 No	43971.00
77	350x75	10.00	1 No	46947.00
78	350x100	12.50	1 No	54938.00
79	400x40	6.00	1 No	35519.00
80	400x50	7.50	1 No	41524.00
81	400x60	10.00	1 No	43924.00
82	400x75	12.50	1 No	54066.00
83	500x40	7.50	1 No	36798.00
84	500x50	10.00	1 No	45332.00
85	500x75	12.50	1 No	58449.00
86	600x40	10.00	1 No	38066.00
87	600x50	12.50	1 No	51297.00
88	600x75	17.50	1 No	59103.00

Note: Duty of the Pumpset is the criteria for the rates. Rates are excluding Excise duty @6% and VAT at 5%.

4.0 OPENWELL SUBMERSIBLE PUMPSET WITH ISI MARK AS PER IS 14220 WITHOUT PANEL BOARD

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
1	50x25	1.00	1 No	18772.00
2	50x40	1.50	1 No	18800.00
3	50x50	2.00	1 No	22292.00
4	50x60	3.00	1 No	27881.00
5	50x75	3.00	1 No	42515.00
6	50x100	5.00	1 No	43017.00
7	50x125	5.00	1 No	60229.00
8	75x25	1.00	1 No	18800.00
9	75x40	2.00	1 No	21360.00
10	75x50	3.00	1 No	23882.00
11	75x60	3.00	1 No	27881.00
12	75x75	3.00	1 No	42515.00
13	75x100	5.00	1 No	43019.00
14	75x125	5.00	1 No	56373.00
15	75x150	7.50	1 No	75992.00
16	100x25	1.00	1 No	20320.00
17	100x40	3.00	1 No	23882.00
18	100x50	3.00	1 No	25105.00
19	100x60	4.00	1 No	42516.00
20	100x75	5.00	1 No	42722.00
21	100x100	5.00	1 No	43018.00
22	100x125	7.50	1 No	60319.00
23	125x25	1.00	1 No	21350.00
24	125x40	3.00	1 No	25105.00
25	125x50	3.00	1 No	31060.00
26	125x75	5.00	1 No	42516.00
27	125x100	5.00	1 No	43018.00
28	125x125	7.50	1 No	60319.00
29	150x25	2.00	1 No	21350.00

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
30	150x40	3.00	1 No	25105.00
31	150x50	3.00	1 No	25105.00
32	150x60	5.00	1 No	42515.00
33	150x75	5.00	1 No	42515.00
34	150x100	5.00	1 No	43019.00
35	150x125	7.50	1 No	72034.00
36	175x25	2.00	1 No	21350.00
37	175x40	3.00	1 No	25105.00
38	175x50	4.00	1 No	31060.00
39	175x60	5.00	1 No	42516.00
40	175x75	5.00	1 No	42516.00
41	175x100	7.50	1 No	52210.00
42	200x25	2.00	1 No	21350.00
43	200x40	3.00	1 No	25105.00
44	200x50	5.00	1 No	25105.00
45	200x60	5.00	1 No	42516.00
46	200x75	7.50	1 No	42722.00
47	200x100	7.50	1 No	52210.00
48	200x125	10.00	1 No	85255.00
49	250x25	3.00	1 No	21350.00
50	250x40	5.00	1 No	25105.00
51	250x50	5.00	1 No	31060.00
52	250x60	5.00	1 No	42516.00
53	250x75	7.50	1 No	52210.00
54	250x100	7.50	1 No	55298.00
55	250x125	10.00	1 No	72034.00
56	300x25	3.00	1 No	21350.00
57	300x40	5.00	1 No	25105.00
58	300x50	5.00	1 No	31060.00
59	300x60	7.50	1 No	42722.00

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
60	300x75	10.00	1 No	52210.00
61	300x100	10.00	1 No	55298.00
62	350x25	3.00	1 No	25105.00
63	350x40	5.00	1 No	36732.00
64	350x50	7.50	1 No	36732.00
65	350x60	7.50	1 No	42722.00
66	350x75	10.00	1 No	52210.00
67	350x100	10.00	1 No	55298.00
68	400x25	3.00	1 No	25105.00
69	400x40	5.00	1 No	36732.00
70	400x50	7.50	1 No	36732.00
71	400x60	10.00	1 No	43930.00
72	400x75	10.00	1 No	55298.00
73	500x25	5.00	1 No	25105.00
74	500x40	5.00	1 No	36732.00
75	500x50	7.50	1 No	36732.00
76	500x75	10.00	1 No	55298.00
77	600x25	5.00	1 No	25105.00
78	600x40	7.50	1 No	36732.00
79	600x50	10.00	1 No	43930.00
80	600x75	12.50	1 No	55298.00
81	700x40	10.00	1 No	41055.00
82	700x60	15.00	1 No	55298.00
83	700x80	15.00	1 No	55298.00
84	700x100	15.00	1 No	55298.00
85	800x40	10.00	1 No	41055.00
86	800x60	15.00	1 No	55298.00
87	800x80	15.00	1 No	55298.00
88	800x100	15.00	1 No	55298.00
89	900x40	10.00	1 No	55298.00

Sl.No.	Duty lpm x m	H.P. of Pumpset	Unit	Rate for 2015-16 in Rupees
90	900x60	15.00	1 No	55298.00
91	900x80	15.00	1 No	55298.00
92	900x100	15.00	1 No	55298.00
93	1000x40	15.00	1 No	65723.00
94	1000x60	15.00	1 No	65723.00
95	1000x80	15.00	1 No	74074.00
96	1000x100	15.00	1 No	118762.00
97	1250x40	15.00	1 No	69498.00
98	1250x60	15.00	1 No	96736.00
99	1250x80	15.00	1 No	129458.00
100	1250x100	15.00	1 No	129458.00
101	1500x40	20.00	1 No	79751.00
102	1500x60	35.00	1 No	114672.00
103	1500x80	40.00	1 No	134020.00
104	1500x100	50.00	1 No	195158.00
105	2000x40	30.00	1 No	108289.00
106	2000x60	45.00	1 No	134020.00
107	2000x80	60.00	1 No	134020.00
108	2000x100	60.00	1 No	134020.00
109	2500x40	35.00	1 No	134020.00
110	2500x60	60.00	1 No	134020.00
111	2500x80	75.00	1 No	134020.00
112	2500x100	90.00	1 No	134020.00

Note: Duty of the Pumpset is the criteria for the rates. Rates are excluding Excise duty @6% and VAT at 5%.

5.0.RATES FOR HORIZONTAL SPLIT CASTING CENTRIFUGAL PUMP (1500 RPM)

Sl.No.	Capacity in LPM	Rate for 2015-16														Rs. in Lakhs.		
		Head in Metres														70	80	90
		25	30	35	40	45	50	55	60	65	70	75	80	85	90			
1	1500	2.93	2.93	3.46	3.46	3.49	4.40	4.45	4.46	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	5.28
2	2500	2.93	2.93	3.58	3.71	4.50	4.50	4.50	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	5.51
3	3000	2.93	2.93	3.71	3.71	4.50	4.50	4.17	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	5.74
4	3500	2.93	2.93	3.71	3.71	4.50	5.41	5.84	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	6.08
5	4000	3.39	3.39	3.71	3.71	4.80	5.41	5.84	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	6.08
6	5000	3.71	3.71	3.92	3.92	5.58	5.69	6.19	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.50
7	6000	3.71	3.71	5.40	5.40	5.59	6.25	6.53	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.73
8	7000	4.98	5.29	5.40	5.59	6.12	6.38	6.53	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37	8.41
9	8000	5.12	5.29	5.40	6.09	6.38	6.38	6.53	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	12.06
10	9000	5.12	5.46	5.51	6.38	6.38	6.40	6.53	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	--
11	10000	5.12	5.46	5.52	6.41	6.42	6.67	6.67	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	15.51
12	15000	6.30	6.30	6.33	7.78	7.78	8.60	10.12	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43	15.51
13	20000	6.91	7.04	7.06	13.68	13.76	15.43	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.98
14	25000	16.56	16.83	17.31	17.54	17.99	18.01	18.01	18.01	18.01	18.01	18.01	18.01	18.01	18.01	18.01	18.01	18.01
15	30000	17.91	18.60	19.48	19.48	19.48	19.48	19.48	23.36	23.36	23.36	23.36	23.36	23.36	23.36	23.36	23.36	--

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

2) The rates are inclusive of all duties taxes handling charges and at F.O.R. destination.

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.

5) Excise duty at 12.50%, VAT 5%

6.0. HORIZONTAL SQUIRREL CAGE MOTOR 1500 RPM

AC 3 Phase /415 V/ Horizontal SPDP 4 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Sl.No	KW	HP	Rate for 2015-16 in Rupees
1	9.3	12.5	89254.00
2	11	15	95324.00
3	15	20	112547.00
4	18.5	25	153085.00
5	22	30	168546.00
6	30	40	191248.00
7	37	50	238956.00
8	45	60	289547.00
9	55	75	295621.00
10	75	110	448925.00
11	90	120	472645.00
12	110	150	589654.00
13	125	170	758642.00
14	132	180	802154.00
15	150	200	809564.00
16	160	215	882654.00
17	180	240	882654.00
18	187	250	918642.00
19	200	270	986521.00
20	220	300	1296532.00
21	250	335	1475684.00
22	280	375	2036521.00
23	300	400	2352143.00

Note : The above rates are inclusive of excise duty, taxes, handling charges etc., Excise duty at 12.50%,VAT at 5%

7.0. HORIZONTAL SQUIRREL CAGE MOTOR 1000 RPM

AC 3 Phase /415 V/ Horizontal SPDP 6 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Sl.No	KW	HP	Rate for 2015-16 in Rupees
1	9.3	12.5	88136.00
2	11	15	92613.00
3	15	20	130523.00
4	18.5	25	154146.00
5	22	30	198411.00
6	30	40	247487.00
7	37	50	309344.00
8	45	60	381077.00
9	55	75	436586.00
10	75	110	524031.00
11	90	120	594431.00
12	110	150	763222.00
13	125	170	908071.00
14	132	180	908071.00
15	150	200	969317.00
16	160	215	1045372.00
17	180	240	1462989.00
18	187	250	1486388.00
19	200	270	1608828.00
20	220	300	1819965.00
21	250	335	2037456.00

Note: The above rates are inclusive of excise duty, taxes, handling charges etc., Excise duty at 12.50%, VAT at 5%

9.0 VERTICAL HOLLOW SHAFT MOTORS FOR TURBINE PUMP

AC 3 Phase /415 V/ Vertical Hollow Shaft TEFC & SPDP 4 Pole
Squirrel cage Induction motor 1500RPM

SI.No	KW	HP	Rate for 2015-16 in Rupees
TEFC MOTORS			
1	18.5	25	107980.00
2	22	30	118780.00
3	30	40	137420.00
4	37	50	179870.00
5	45	60	217320.00
SPDP MOTORS			
6	55	75	340250.00
7	75	100	448950.00
8	90	120	468231.00
9	110	150	598215.00
10	125	170	618256.00
11	132	180	693254.00
12	150	200	778562.00
13	160	215	938956.00
14	180	240	978523.00
15	187	250	985621.00
16	200	270	1099756.00
17	220	300	1146589.00
18	250	335	1228956.00
19	280	375	1398654.00
20	300	400	1492564.00

Note: The rates are inclusive of excise duty,taxes,etc., Excise duty at 12.5%,
VAT at 5%.

10.0 Iron core Oil Cooled Transformer with Copper Winding Conforming to IS 2026

Sl.No	Rating in KVA	Rate for 2015-16 in Rupees		
		11KV/433V	22 KV/433 V	11KV/22KV /433V
1	63	144000	153000	171000
2	100	171000	180000	198000
3	150	243000	265500	288000
4	160	243000	265500	288000
5	200	270000	265500	288000
6	250	342000	378000	405000
7	315	387000	414000	450000
8	400	432000	477000	522000
9	500	513000	552000	612000
10	630	576000	612000	684000
11	750	684000	708000	846000
12	800	708000	738000	885600
13	1000	792000	828000	993600

Note :- Excise duty at 12.50 % and TNVAT at 5% and handling charges are extra.

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

Sl. No.	HP	Unit	Rate for 2015-16 in Rupees
1	1	1 No.	4576.00
2	1.5	1 No	5005.00
3	2	1 No	5720.00

- Note
- 1) The rate are excluding excise duty and taxes
 - 2) Excise duty Nil and VAT at 5 % extra over the above rate.
 - 3) The above rates are inclusive of two level guard worth Rs.550/- and auto star facility worth Rs. 400/-
 - 4) Timer is not recommended for this panel board.
 - 5) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004

11.1. 3 PHASE PANEL BOARD- D.O.L. WITH TWO LEVEL GUARD AND AUTO START

Sl. No.	HP	Unit	Rate for 2015-16 in Rupees
1	1	1 No.	10725.00
2	2	1 No	10725.00
3	3	1 No	10725.00
4	4	1 No.	10725.00
5	5	1 No	10725.00
6	6	1 No	10725.00

- Note
- 1) The rate are excluding excise duty and taxes
 - 2) Excise duty Nil and VAT at 5 % extra over the above rate.
 - 3)The above rates are inclusive of two level guard worth Rs.550/- and auto star facility worth Rs. 400/-
 - 4) For Timer facility if necessaryRs. 4000 may be added as extra.
 - 5) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004.

11.2 3 PHASE PANEL BOARD-STAR DELTA WITH TWO LEVEL GUARD AND AUTO START

Sl. No.	HP	Unit	Rate for 2015-16 in Rupees
1	6	1 No.	13485
2	7.5	1 No	14157
3	10	1 No	17149
4	12.5	1 No.	17864
5	15	1 No	19829
6	20	1 No	20873
7	25	1 No	20873

- Note
- 1) The rate are excluding excise duty and taxes.
 - 2) Excise duty Nil and VAT at 5 % extra over the above rate.
 - 3) The above rates are inclusive of two level guard worth Rs.550/- and auto star facility worth Rs. 400/-.
 - 4) Timer is not recommended for this panel board.
 - 5) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004.

11.3 DOL STARTER WITH SINGLE PHASING PREVENTOR WITH AMMETER CONFORMING TO IS 13947 WITH AUTO RESTART FACILITY FOR PUMP HOUSES WHERE PANEL BOARDS ARE AVAILABLE

Upto 4 HP - Rs. 4750/each.

5HP to 7.5HP - Rs. 5850/Each

(The above rates are inclusive of all taxes ,duties and handling charges
Excise duty at 12.50 %,VAT 5 %)

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

SI. No.	KW	Unit	Rate for 2015-16 in Rupees
1	30 to 37	1 No	175000.00
2	38 to 75	1 No	312000.00
3	76 to 135	1 No	435000.00
4	136 to 160	1 No	492000.00
5	161 to 250	1 No	735000.00
6	251 to 300	1 No	862000.00
7	301 to 500	1 No	1212300.00
8	501 to 750	1 No	1589000.00

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

SI. No.	KW	Unit	Rate for 2015-16 in Rupees
1	250	1 No	716000.00
2	300	1 No	754120.00
3	350	1 No	810659.00
4	400	1 No	848520.00
5	500	1 No	885650.00
6	600	1 No	996582.00
7	700	1 No	1096956.00
8	800	1 No	1225215.00
9	900	1 No	1329960.00
10	1000	1 No	1549350.00

Note: **

- 1) The rates are inclusive of excise duty taxes etc.
- 2) DOL starters are to be adopted up to 6 HP
- 3) Air break fully automatic star delta starters are suggested for above 6 HP upto 20HP except submersible pumpsets for which fully automatic ATS starters are to be adopted
- 4) FCMA soft starter are to be adopted for 100 HP and above.
- 5) Excise duty at 12.50% VAT at 5%

11.6 FULLY AUTOMATIC AIR BREAK STAR DELTA STARTER WITH SINGLE PHASING PREVENTOR WITH AMMETER CONFIRMING TO IS 13947 WITH AUTO RESTART FACILITY (FOR INSTALLING WHERE MV PANEL BOARD IS USED)

Sl. No.	KW Rating	HP	Unit	Rate for 2015-16 in Rupees
1	7.5	10	1 No	15250.00
2	11	15	1 No	15250.00
3	15	20	1 No	16445.00
4	18.5	25	1 No	16445.00
5	22	30	1 No	26840.00
6	30	40	1 No	30745.00
7	37	50	1 No	35063.00

Note: The above rates are inclusive of all taxes duties and handling charges
Excise duty at 12.50 % and VAT 5%

11.7 FULLY AUTOMATIC AIR BREAK AUTO TRANSFORMER STARTER WITH SINGLE PHASING PREVENTOR WITH AMMETER CONFIRMING TO IS 13947 WITH AUTO RESTART FACILITY

Sl. No.	KW Rating	HP	Unit	Rate for 2015-16 in Rupees
1	5.5	7.5	1 No	27750.00
2	7.5	10	1 No	27750.00
3	9	12.5	1 No	31920.00
4	11	15	1 No	33250.00
5	15	20	1 No	69000.00
6	22	30	1 No	85000.00
7	30	40	1 No	95620.00
8	37	50	1 No	110300.00
9	45	60	1 No	123100.00
10	60	80	1 No	170262.00
11	75	100	1 No	186532.00

Note: The above rates are inclusive of all taxes duties and handling charges
Excise duty at 12.50 % and VAT 5%

12.0. L.T. Cables**3,3.5,4 CORE 1.1 KV GRADE ARMOURED ALUMINIUM CONDUCTOR
CABLE CONFORMING TO IS 1554 PART I WITH ISI MARKING**

Sl.No	Description	Unit	Rate for 2015-16 in Rupees		
			3 Core	3.5 Core	4 Core
1	4sq.mm	metre	62.00		125.00
2	6sq.mm	metre	75.00		132.00
3	10sq.mm	metre	85.00		145.00
4	16sq.mm	metre	89.00		190.00
5	25sq.mm	metre	111.00	231.00	
6	35sq.mm	metre	137.00	272.00	
7	50sq.mm	metre	181.00	355.00	
8	70sq.mm	metre	239.00	455.00	
9	95sq.mm	metre	313.00	588.00	
10	120sq.mm	metre	376.00	719.00	
11	150sq.mm	metre	459.00	851.00	
12	185sq.mm	metre	566.00	1044.00	
13	240sq.mm	metre	714.00	1318.00	
14	300sq.mm	metre	867.00	1617.00	
15	400sq.mm	metre	1110.00	2069.00	

Note: Excise duty 12.50% and VAT at 5% are extra

12.1. PVC INSULATED AND SHEATHED 3 CORE FLAT TYPE COPPER CABLE CONFORMING TO IS 694/1990

SI.No	Description	Unit	Rate for 2015-16 in Rupees	
			With excise duty	Without excise duty
1	1.5 sq.mm	meter	73.00	65.00
2	2.5 sq.mm	meter	115.00	102.00
3	4.0 sq.mm	meter	171.00	152.00
4	6.0 sq.mm	meter	230.00	204.00
5	10.0 sq.mm	meter	399.00	354.00
6	16.0 sq.mm	meter	618.00	550.00

12.2 RATE FOR CABLE JOINTS INCLUDING JOINTING MATERIALS AND LABOUR

The cost of cable per meter will be the cost per joint

12.3 CABLE LAYING

SI.No	Description	Rate for 2015-16 in Rupees	
		For laying below GL including earth work in Rupees	For laying in trenches inside the pump room or in air
1	up to 95 sq. mm	120.00	80.00
2	95 to 240 sq.mm	170.00	120.00
3	240 to 400 sq.mm	250.00	195.00

12.4 CABLE CLAMPS

SI.No.	Description	Unit	Rate for 2015-16 in Rupees
1	up to 95 sq. mm	each	250.00
2	95 to 240 sq.mm	each	315.00
3	240 to 400 sq.mm	each	460.00

NOTE : 1. For every 3 metre length one set of clamp is to be provided
 2. Suitable number of clamps are to be arrived at according to the length
 3. Provision for cable trench and delivery pipe ducting are to be provided in pump house detailed estimate.

H.T. CABLE

12.5. PVC INSULATED ARMoured ALUMINIUM CONDUCTOR CABLE

SI.No	Description	Unit	Rate for 2015-16 in Rupees	
			11KV	12KV
1	3 C 240 sq.mm	metre	1082	1323
2	3 C 185 sq.mm	metre	902	1118
3	3 C 150 sq.mm	metre	766	994
4	3 C 120 sq.mm	metre	681	894
5	3 C 95 sq.mm	metre	578	810
6	3 C 70 sq.mm	metre	517	714

Note: Excise duty at 12.50% and VAT at 5% are extra

13.0 VACCUM PUMP SET WITH ACCESSORIES

SI. No.	Description	Unit	Rate for 2015-16 in Rupees
1	Price for 5 HP Model/Rotary type Vaccum pumpsets (Pumpset + GI Pipes + Fittings + Starters + Valves + 100 Lr.Tank) including Transportation, handling charges all taxes and duties	1 No	365000.00
2	Price for 10 HP Vaccum pumpset with all above Accessories	1 No	475000.00
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	6750.00

Note: The rates are inclusive of all taxes and duties.

14.0 MOULDED CASE CIRCUIT BREAKER(MCCB)

Sl.No.	Range	Rate for 2015-16 in Rupees	
		3POLE	4 POLE
1	32-100	10512	13000
2	125	14500	16000
3	160	16685	20790
4	200	30000	31695
5	250	30000	35000
6	320	36594	42372
7	400	38542	44295
8	630	42615	51360
9	800	57780	76986
10	1000	89850	115559
11	1250	101420	147000
12	1600	115560	182540

- NOTE:**
- 1) The rates are inclusive of all taxes, duties and handling charges and F.O.R. destination.
 - 2) The rate for MCB for single phase useage the PWD schedule of rates shall be referred.
 - 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 and for rates PWD schedule rates shall be referred.

15.0 RATE FOR MIXED DIE ELECTRIC CAPACITOR WITH TNEB TEST CERTIFICATE WITH ACCESSORIES INCLUDING BANKING CONFORM TO IS 2834.

Rs.440/- per KVAR (including all taxes, duties and handling charges).

- Note:
- a. The rate for mixed Die Electric Capacitor with Test Certificate given as Rs.440/- per KVAR is inclusive of all taxes and duties and inclusive of Banking charges, such as providing of 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 do not require banking and fabrication works.

16.0 LT METERING BOX

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Up to 50HP/37 KW (which includes LT meter panel board 6 Nos. suitable fuse carriers	1 No.	24750.00
2	75 HP/56 KW (which includes LT meter panel board 6 Nos. suitable fuse carriers	1 No.	32300.00
3	75HP-150HP/56-112 KW (which includes LT meter panel board 6 Nos. suitable fuse carriers	1 No.	40250.00
4	IN HT supply using LT metering board (Above 150 HP below 200 HP) 112-150 KW	1 No.	65000.00

Note : The rates are inclusive of all taxes,duties, handling charges.

17.0 TRANSFORMER SUB STATION RELATED WORKS

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Designing and preparation of CEIG drawings, obtaining Approval and safety certificate including submission of Completion report and rectification report.	1 No.	72000.00
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.	360000.00
b	For 22 KV Sub station	1 No.	480000.00
3	Construction of transformer plinth	1 No.	24000.00
4	Chain link fencing with gate including the TNEB 2 poles Spreading of materials as per CEIG requirements	1 No.	60000.00
5	Transformer yard earthing		
a	Upto 250 KVA Transformer sub station	1 No.	36000.00
b	Above 250 KVA	1 No.	72000.00
6	Transformer sub station erection charges	1 No.	22882.00

Note: Provision for cement concrete flooring has to be made at the sub station yard.

The rates are inclusive of all taxes,duties, handling charges.

17.1 AIR CIRCUIT BREAKER (With shunt release and under voltage release)

Sl.No.	Range in AMPS	Rate for 2015-16 in Rupees	
		3POLE	4 POLE
1	1000	181781.00	223650.00
2	1250	192543.00	235856.00
3	1600	213675.00	274835.00
4	2000	267095.00	323400.00
5	2500	322351.00	394142.00
6	3200	375000.00	451000.00
7	4000	505712.00	620810.00

Note : The rates are inclusive of all taxes, duties, handling charges and F.O.R. destination.

18.0 SAFETY APPLIANCES

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Electrical gloves tested to 11 KV /22 KV with wooden box dusted with french chalk powder	1 No.	605.00
2	Electrical quality 6mm thick rubber mat	1 No.	845.00
3	5 kg capacity ISI marked Dry chemical powder fire extinguisher	1 No.	2365.00
4	Fire Bucket-3 Nos Hooked to MS stand	1 No.	945.00
5	Laminated shock treatment chart	1 No.	630.00
6	Wooden First Aid Box	1 No.	795.00
7	Rechargeable Emergency lamp(600mm fluorescent lamp)	1 No.	3256.00
	H.T. SUPPLY		
8	Teak Wood ladder –5M Ht.	1 No.	1620.00
9	Earth Discharge Rod (3 Nos. -RYB)	1 No.	1354.00

Note: The rates are inclusive of all taxes, duties, handling charges and F.O.R. destination

19.0 TOOLS

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	6" Chain wrench best India make	1 No.	650.00
2	8"Chain Wrench Best India Make	1 No.	890.00
3	Connector Screw Driver 901 Taparia Make	1 No.	56.00
4	200mm Screw Driver 825 Taparia Make	1 No.	93.00
5	300mm Screw Driver 829 Taparia Make	1 No.	172.00
6	400mm Screw Driver 930 Taparia Make	1 No.	250.00
7	200mm Cutting Plier Taparia Make	1 No.	305.00
8	800gm Ball Pane Hammer with Handle Taparia Make	1 No.	385.00
9	Digital Tong Tester CE Make	1 No.	3575.00
10	Digital Multi Meter CE Make	1 No.	2310.00
11	15" Screw Spanner Taparia Make	1 No.	792.00
12	12" Bearing Puller	1 No.	785.00
13	Lever Type Grease Gun	1 No.	646.00
14	12"Screw Spanner	1 No.	582.00
15	Crow Bar 5"	1 No.	569.00
16	1" Cold Chisel	1 No.	208.00
17	Hacksaw Frame with Blade	1 No.	129.00
18	Electrical Air Blower	1 No.	3047.00
19	Digital Tachometer	1 No.	1980.00
20	Hand Crimpling Tool 8"	1 No.	535.00
21	DE Spanner set 6 to 32 Jhalani Make	1 No.	1025.00
22	Rings spanner set 6 to 32 Jhalani Make	1 No.	2350.00
23	Pipe Wrench 24" Jhalani Make	1 No.	1350.00
24	Pipe Wrench 14" Jhalani Make	1 No.	648.00
25	12" Flat rough File Scissors Make	1 No.	325.00
26	12" Flat smooth File Scissors Make	1 No.	485.00
27	12"Round File Rough Scissors	1 No.	375.00
28	12" Round File Smooth Scissors Make	1 No.	452.00
29	12"Half Round File Rough Scissors Make	1 No.	675.00
30	12"Half Round File Smooth Scissors Make	1 No.	675.00

Note: The rates are inclusive of all taxes,duties, handling charges and F.O.R destination

20.0 PUMP ROOM WIRING AND OTHER ITEMS (Size of Room 1.5 m x 1.2m)

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Providing lighting wiring using MS conduit pipes and specials with 2 runs 1.5 sq.mm PVC copper wire and 1 run 12 swg GI wire for earthing for light, fans and 5A plug points including switch box 5A switch sockets ceiling rose and consumables	1 No.	1113.00
2	Supply of portable hand lamp with 100w bulb, lamp guard and wooden handle and 25M long flexible cable.	1 No.	925.00
3	Supply of pedestal fan	1 No.	3745.00

- Note 1) Add 35% for wiring on the total fittings cost.
 2) The above rates are inclusive of all taxes duties handling charges and F.O.R destination.
 3) Excise duty at 12.50%, VAT 5%.

21.0 TWIN CI EARTHING (As per IS 3043/1987 and latest amendments)

Sl.No.	Description	Unit	Rate for 2015-16 in Rupees
1	Upto 25 HP installation	1 No.	10396.00
2	Above 25-60 HP	1 No.	16000.00
3	Above 60-150 HP	1 No.	24948.00
4	Above 150 HP	1 No.	40000.00

Note: In case of collector well the distance from the bank of the river should be ascertained to find out the weight of CI strip to be used only in the foot bridge and rate of Rs.47/- per Kg should be adopted for estimation and this amount should be added with the above rates.

22.0 H.O.T. CRANE AND ACCESSORIES

Sl.No.	Description	Unit	Rate for 2015-16 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 and geared Travelling trolley complete with all accessories including girder	1 No.	346000.00
2	2T HOT crane with above specifications upto 8 M Span including Girder	1 No.	378000.00
3	2T HOT crane with above specifications upto 10 M Span including Girder	1 No.	405300.00

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.	378000.00
5	3T HOT crane with above specifications upto 8 M Span including Girder.	1 No.	405300.00
6	3T HOT crane with above specifications upto 10 M Span including Girder.	1 No.	420300.00
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.	441000.00
8	5T HOT crane with above specifications upto 8 M Span including Girder.	1 No.	472000.00
9	5T HOT crane with above specifications upto 10M Span including Girder.	1 No.	520000.00

Note : The rates are inclusive of all taxes,duties, handling charges.

23.0 CARRYING ENERGY EFFICIENCY IMPROVEMENT JOB IN HORIZONTAL SPLIT CASE PUMPS

SI.No	Capacity in LPM	Rate for 2015-16													
		HEAD IN METRES													
		25	30	35	40	45	50	55	60	70	80	90			
1	1500	35	35	35	35	35									
2	2500	40	40	40	41	42									
3	3000	42	42	42	42	42									
4	3500	42	42	42	42	43	49	49							
5	4000	42	42	47	47	49	49	49							
6	5000	43	49	49	49	49	60	60	60						
7	6000	49	49	49	60	60	60	65							
8	7000	60	65	75	75	79	79	79	79	79	79				
9	8000	79	79	79	87	87	87	87	87	87	87				
10	9000	87	87	96	96	96	96	96	96	96	96				
11	10000	96	100	100	100	100	100	100	100	100	100				
12	15000	114	121	121	121	121	121	121	121	121	121	121	121	151	151
13	20000	129	151	151	151	151	151	151	151	151	151	151	151	174	174
14	25000	151	174	174	175	175	175	175	175	175	175	175	175	185	185
15	30000	174	174	177	177	185	185	185	185	185	185	185	185	207	207

Note: The rates for testing and repairs, if any required, for pump sets will be extra.

23.1 ENERGY EFFICIENCY IMPROVEMENT IN VERTICAL TURBINE PUMPS

SI.No	Capacity in LPM	Rate for 2015-16 in Rupees HEAD IN METERS												
		15	20	25	30	35	40	45	50	55	60	70	80	90
1	2500	65230	65230	92455	92455	103290	103290	119625	119625	135960	135960	146850	146850	195855
2	3000	65230	65230	92455	92455	103290	103290	119625	119625	135960	135960	146850	146850	195855
3	3500	65230	65230	92455	92455	103290	103290	119625	119625	135960	135960	146850	146850	195855
4	4000	69586	69586	97900	97900	103290	103290	119625	119625	135960	135960	146850	146850	195855
5	5000	69586	69586	97900	97900	103290	103290	119625	119625	135960	135960	146850	146850	195855
6	6000	76120	76120	103290	103290	119625	119625	135960	135960	146850	146850	163185	163185	212135
7	7000	85921	85921	114180	114180	125070	125070	135960	135960	146850	146850	163185	163185	212135
8	8000	95667	95667	125070	125070	135960	135960	146850	146850	163185	163185	184965	184965	233915
9	9000	95667	95667	125070	125070	135960	135960	146850	146850	163185	163185	184965	184965	233915
10	10000	107646	107646	130515	130515	146850	146850	163185	163185	184965	184965	201245	201245	255695
11	15000	118536	118536	146850	146850	163185	163185	184965	184965	201245	201245	223025	223025	277805
12	20000	130515	130515	157740	157740	174075	174075	195855	195855	212135	212135	233915	233915	288365
13	25000	141405	141405	174075	174075	195855	195855	212135	212135	233915	233915	255695	255695	313925
14	30000	152295	152295	184965	184965	201245	201245	223025	223025	244805	244805	266585	266585	329255

Note : The rates for testing and repairs, if any required, for pump sets will be extra.

24.0. 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 as stated in the annexure. 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 to 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 960 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 3 ph, 415 V(+ or - 10 %), 50 Hz (+ 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 3 core x 1.5 sq.mm copper conductor and for bimetallic switches 2 core x 1.5 sqmm copper conductor shall be provided. Motor shall be supplied with 10 mts of round submersible copper cable of suitable size.

Sl. No.	Description	Unit	Rate for 2015-16 in Rupees
	10 to 15 m head		
1	Discharge Upto 20 M ³ /hour	1 No	481719.00
2	Discharge 20 to 100 M ³ /hour	1 No	495556.00
3	Discharge 100 to 200 M ³ /hour	1 No	523333.00
4	Discharge 200 to 300 M ³ /hour	1 No	819173.00
5	Discharge 300 to 400 M ³ /hour	1 No	1039416.00
6	Discharge 400 to 500 M ³ /hour	1 No	1119440.00
7	Discharge 500 to 600 M ³ /hour	1 No	1390159.00
8	Discharge 600 to 700 M ³ /hour	1 No	1390159.00
9	Discharge 700 to 800 M ³ /hour	1 No	1376141.00
10	Discharge 800 to 900 M ³ /hour	1 No	1469736.00
11	Discharge 900 to 1000 M ³ /hour	1 No	1838383.00
12	Discharge 1000 to 1100 M ³ /hour	1 No	1808183.00

	15 to 20 m head		
13	Discharge Upto 20 M ³ /hour	1 No	481719.00
14	Discharge 20 to 100 M ³ /hour	1 No	495556.00
15	Discharge 100 to 200 M ³ /hour	1 No	740656.00
16	Discharge 200 to 300 M ³ /hour	1 No	819173.00
17	Discharge 300 to 400 M ³ /hour	1 No	1039416.00
18	Discharge 400 to 500 M ³ /hour	1 No	1119440.00
19	Discharge 500 to 600 M ³ /hour	1 No	1390159.00
20	Discharge 600 to 700 M ³ /hour	1 No	1390159.00
21	Discharge 700 to 800 M ³ /hour	1 No	1376141.00
22	Discharge 800 to 900 M ³ /hour	1 No	1469736.00
23	Discharge 900 to 1000 M ³ /hour	1 No	1838383.00
24	Discharge 1000 to 1100 M ³ /hour	1 No	1808183.00
	20 to 25 m head		
25	Discharge Upto 20 M ³ /hour	1 No	571381.00
26	Discharge 20 to 100 M ³ /hour	1 No	568543.00
27	Discharge 100 to 200 M ³ /hour	1 No	823494.00
28	Discharge 200 to 300 M ³ /hour	1 No	897691.00
29	Discharge 300 to 400 M ³ /hour	1 No	1124084.00
30	Discharge 400 to 500 M ³ /hour	1 No	1269984.00
31	Discharge 500 to 600 M ³ /hour	1 No	1838383.00
32	Discharge 600 to 700 M ³ /hour	1 No	1838383.00
33	Discharge 700 to 800 M ³ /hour	1 No	1808183.00
34	Discharge 800 to 900 M ³ /hour	1 No	1988820.00
35	Discharge 900 to 1000 M ³ /hour	1 No	2229098.00
36	Discharge 1000 to 1100 M ³ /hour	1 No	2584005.00
	25 to 30 m head		
37	Discharge Upto 20 M ³ /hour	1 No	568788.00
38	Discharge 20 to 100 M ³ /hour	1 No	823494.00
39	Discharge 100 to 200 M ³ /hour	1 No	897691.00
40	Discharge 200 to 300 M ³ /hour	1 No	1219357.00
41	Discharge 300 to 400 M ³ /hour	1 No	1219357.00
42	Discharge 400 to 500 M ³ /hour	1 No	1751673.00
43	Discharge 500 to 600 M ³ /hour	1 No	1756627.00
44	Discharge 600 to 700 M ³ /hour	1 No	1756627.00
45	Discharge 700 to 800 M ³ /hour	1 No	1995073.00
46	Discharge 800 to 900 M ³ /hour	1 No	1995073.00
47	Discharge 900 to 1000 M ³ /hour	1 No	2189685.00
8	Discharge 1000 to 1100 M ³ /hour	1 No	2876018.00

- NOTE:-**
- 1) The rates including ED for pumps
 - 2) The Sales Tax / VAT Extra.
 - 3) The rates including transportation and handling charges etc.

RATES FOR BUILDING MATERIALS

BUILDING MATERIALS

1. Cement - Rs. 6,400/ – per metric tonne

(Rupees Six Thousand and Four Hundred only)

The rate for cement is inclusive of all taxes, freight charges etc., at Stockyard/ Dealer's Godown. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the 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.43, 000/- per metric tonne

(Rupees Forty Three thousand only)

The rate for steel is inclusive of all taxes, freight charges, etc., at Stockyard / Dealer's Godown. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the 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 in Rupees
3	Bricks-II Class Table Moulded (Chamber burnt)		
a.	9" x 4 1/2" x 3"	1000 Nos.	6525.00
b.	9" x 4 3/8" x 2 3/4"	1000 Nos.	6270.00
4	Bricks-II Class (Ground Moulded Chamber burnt)		
a.	9"x4 1/2" x3"	1000 Nos.	5620.00
b.	9"x4 3/8" x 2 3/4"	1000 Nos.	5460.00
5	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.	3565.00
b.	22 x 11 x 5.7 cm (8 3/4" x 4 1/4" x 2 1/4")	1000 Nos.	3720.00
c.	22 x 11 x 7cm (8 3/4" x 4 1/4" x 2 3/4")	1000 Nos.	4725.00
6	Fly Ash bricks		
a.	230 x 110 x 70mm	1000 Nos.	5460.00
b.	230 x 110 x 75mm	1000 Nos.	5620.00
7	Bricks Country (specially moulded for well steining)		
a.	8 3/4" x 4 1/4" x 2"	1000 Nos.	2100.00
b.	Perforated Bricks 19 x 9 x 9cm	1000 Nos.	3195.00
c.	Terrace Bricks 15 x 7.5 x 2.5cm	1000 Nos.	822.00
8	Flat Tiles		
a.	15cm x 15cm x 12mm	1000 Nos.	773.00
b.	15cm x 15cm x 20mm	1000 Nos.	917.00
9	Brick Jelly		
a.	40mm size	cu.m.	586.00
b.	20mm size	cu.m.	652.00
10	Pressed Tiles		
a.	20cm x 20cm x 2cm	1000 Nos.	10335.00
b.	23cm x 23cm x 2cm	1000 Nos.	14645.00
11	Pan Tiles		
a.	23cm x 8cm x 1.7cm	1000 Nos.	402.00
b.	16.5cm x 8cm x 1.7cm	1000 Nos.	333.00
12	Best Mangalore Tiles		
a.	1 st Class 'A'	1000 Nos.	9665.00
b.	Class 'AA'	1000 Nos.	9840.00
c.	Best Mangalore Ridge Tiles	1000 Nos.	28200.00
d.	Best Mangalore Ceiling Tiles	1000 Nos.	5935.00
e.	Best Mangalore Glass Roofing Tiles	Each	280.00
f.	Best Mangalore Ventilating Tiles (Single)	Each	42.40
g.	Best Mangalore Ventilating Tiles (Double)	Each	53.10
13	Mosaic Flooring tiles GREY		
a.	25cm x 25cm x 2cm	1000 Nos.	12060.00
b.	20cm x 20cm x 2cm	1000 Nos.	7695.00

Sl. No.	Description	Unit	Rates in Rupees
14	Mosaic (other colour)		
a.	25cm x 25cm x 2cm	1000 Nos.	16640.00
b.	20cm x 20cm x 2cm	1000 Nos.	9835.00
c.	Mosaic (Green) 20cm x 20cm x 2cm	1000 Nos.	12060.00
d.	Mosaic (Green) 25cm x 25cm x 2cm	1000 Nos.	18920.00
e.	Mosaic Chequered Tile of Grey colour size 25 cm x 25 cm x 2 cm	1000 Nos.	15130.00
	Stone and Road materials		
15	Rough stone for Masonry works (Hard Granite)	cu.m.	379.00
16	Rough stone for revetment works	cu.m.	328.00
17	Jeddy size for revetment (Hard granite)	cu.m.	361.00
18	Cut stone pillar of size 0.15 x 0.15 x 2.1M	Each	141.00
19	From boulders without blasting for revetment	cu.m.	96.70
20	From boulders without blasting for masonry	cu.m.	126.00
21	Course Rubble stone for masonry works	cu.m.	303.00
22	Course Rubble stone for Arch works	cu.m.	328.00
23	Chisel dressed stone		
a.	70cm x 30cm x 29cm	Each	150.00
b.	37cm x 30cm x 29cm	Each	135.00
24	Hammer dressed stone		
a.	37cm x 30cm x 29cm	Each	105.00
25	Cut stone fully dressed to size on all faces	cu.m.	5405.00
26	Cut stone roughly dressed	cu.m.	3730.00
27	Ashlar arch stone fully dressed to size all faces	cu.m.	4115.00
28	Flooring stone SS size (not less than 10cm thick)	sq.m.	301.00
29	Stone slab for culvert (3 faces, one line dressed)		
a.	Above 1.2m	cu.m.	3920.00
b.	Up to 1.2m	cu.m.	3560.00
30	Stone slab for culvert (3 faces, two line dressed)	cu.m.	4365.00
31	For lintel coping (3 faces, two line dressed)	cu.m.	4365.00
32	Bond stones	cu.m.	520.00
33	Kilometre stone 1.65 x 0.45 x 0.15m	Each	374.00
34	Hecta metre stone		
a.	0.90 x 0.10 x 0.10m	Each	105.00
b.	0.75 x 0.23 x 0.10m	Each	192.00
c.	0.90 x 0.15 x 0.15m	Each	188.00
35	Demarcation stone (Two line dressed for top 30cm)		
a.	0.75 x 0.15 x 0.15m	Each	78.00
b.	0.90 x 0.23 x 0.23m	Each	100.00
c.	0.75 x 0.23 x 0.23m	Each	93.00

Sl. No.	Description	Unit	Rates in Rupees
d.	0.90 x 0.15 x 0.15m	Each	86.00
e.	Demarcation Stone with letters cut 0.75 x 0.15 x 0.15m	Each	105.00
f.	Edge stone 0.45 x 0.15 x 0.15m	Each	47.80
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	120.00
ii)	0.10 x 0.10 x 0.25m	Each	87.30
36. a.	Guard Stone (Two line dressed for 45cm) 23cm dia 1.0m long	Each	139.00
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	148.00
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	139.00
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	96.70
e.	Guard stone 90cm long 23cm dia	Each	71.70
37	Hard broken Granite stone jelly (I.S.S.) machine crushed / Hand broken.		
i.	90mm size	cu.m.	364.00
ii.	80mm size	cu.m.	408.00
iii.	63mm size	cu.m.	471.00
iv.	50mm size	cu.m.	546.00
v.	40mm size	cu.m.	848.00
vi.	25mm size	cu.m.	729.00
vii.	20mm size	cu.m.	1180.00
viii.	12mm size	cu.m.	1095.00
ix.	10mm size	cu.m.	806.00
x.	6mm size	cu.m.	546.00
xi.	3mm size	cu.m.	492.00
38	Quartz metal		
i.	50mm	cu.m.	82.90
ii.	40mm	cu.m.	84.20
39	Soft broken stone		
i.	63mm	cu.m.	64.00
ii.	40mm	cu.m.	71.60
40	Laterite 40mm to 75mm size	cu.m.	82.90
41	Kankar 40mm to 75mm size	cu.m.	82.90
42.a	Soling stones 15cm cube (un blasted)	cu.m.	96.80

Sl. No.	Description	Unit	Rates in Rupees
b.	Soling stones 15cm cube (blasted)	cu.m.	158.00
43.a	Gravel	cu.m.	157.00
b.	Well Gravel	cu.m.	129.00
c.	Screened Kankar Gravel	cu.m.	95.00
44.a	Quarry rubbish	cu.m.	82.00
b.	Stone dust	cu.m.	105.00
c.	Pond Ash (wet /dry)	cu.m.	81.00
d.	Crushed Stone Sand	cu.m.	419.00
45	Sand for Mortar	cu.m.	176.40
46	Sand for Filling	cu.m.	176.40
47	Clay for puddle and masonry	cu.m.	32.60
48.i)	Cuddapah slab 50mm thick	sq.m	391.00
ii)	Cuddapah slab 38mm/40mm thick	sq.m	377.00
iii)	Cuddapah slab 20mm/30mm thick	sq.m	347.00
	LIME		
49	Shell Lime (Slacked and screened)	cu.m.	1260.00
50	Freshly Slacked and Screened Burnt Lime Stone	cu.m.	929.00
51	Stone Lime or Lime Metal	cu.m.	81.00
	TIMBER AND ROOFING MATERIALS		
52	Teakwood scantlings (over 3m for joists and rafters) Malabar	cu.m.	117800.00
53	Teakwood scantlings (for tiebeams and principal rafters) - Malabar	cu.m.	115900.00
54	Teakwood scantlings (over 2m and below 3m in length) - Malabar	cu.m.	112800.00
55	Teakwood scantlings(below 2m in length) – Malabar	cu.m.	100400.00
56	Teakwood planks		
i)	Over 45cm wide and 12mm thick.	cu.m.	124400.00
ii)	Over 30cm and up to 45cm wide and 12mm thick	cu.m.	115500.00
iii)	Over 30cm and up to 45cm wide and 12mm to 25mm thick	cu.m.	108100.00
iv)	Over 30cm and up to 45cm wide and 25mm to 40mm thick	cu.m.	103700.00
v)	Over 15cm and up to 30cm wide and 12mm thick	cu.m.	101000.00
vi)	Over 15cm and up to 30cm wide and 12mm to 25mm thick	cu.m.	96000.00
vii)	Over 15cm and upto 30cm wide and 25mm to 40mm thick	cu.m.	94100.00
viii)	Up to 15cm wide and 12mm thick	cu.m.	92300.00
ix)	Up to 15cm wide and 12mm to 25mm thick	cu.m.	92300.00
x)	Up to 15cm wide and 25mm to 40mm thick	cu.m.	87200.00
57	Teak wood reepers		
i)	50mm x 25mm	RM	77.00
ii)	50mm x 12mm	RM	62.50

Sl. No.	Description	Unit	Rates in Rupees
58	Country wood Scantlings		
i)	Up to 4m in length	cu.m.	34800.00
ii)	Over 4m in length	cu.m.	36600.00
59	Country wood scantlings (for tiebeams and principal rafters for trusses)	cu.m.	36600.00
60	Jack wood Scantlings (up to 4m)	cu.m.	38350.00
61	Silver Oak Scantling	cu.m.	15800.00
62	Country wood planks		
i)	40mm thick- upto 30cm wide	cu.m.	39900.00
ii)	25mm thick - up to 30cm wide	cu.m.	39900.00
iii)	40mm thick - over 30cm wide	cu.m.	39900.00
iv)	25mm thick - over 30cm wide	cu.m.	39900.00
63.a.	Jack wood planks 25 to 40mm thick	cu.m.	41800.00
b.	Silver Oak plank (40mm thick)	cu.m.	17900.00
c.	Blue gum plank	cu.m.	18400.00
64	Country wood reepers		
a.	50mm x 25mm	RM	35.00
b.	50mm x 12mm	RM	25.30
65	Mango Plank	cu.m.	17000.00
66.a.	Palmyrah rafter (50mm to 60mm wide and 125mm depth)	RM	50.00
b.	Palmyrah leaves	100 Nos.	259.00
c.	Palmyrah leaves (Labour for cutting)	100 Nos.	40.70
67	Casurina Poles		
a.	13cm to 15cm diameter	RM	33.50
b.	10cm to 13cm diameter	RM	25.50
c.	8cm to 10cm diameter	RM	19.50
d.	5cm to 8cm diameter	RM	16.70
68	Eucalyptus Poles		
a.	13cm to 15cm dia	RM	33.50
b.	10cm to 13 cm dia	RM	23.90
c.	8 cm to 10 cm dia	RM	19.50
d.	5 cm to 8 cm dia	RM	16.70
e.	Below 5 cm	RM	15.20
69	Eucalyptus Bullies 4cm to 5 cm dia & cross ties	RM	12.30
70	Casurina Bullies 4cm to 5cm dia & cross ties	RM	13.70
71	Bamboo large		
i)	10cm diameter and above	RM	12.30
ii)	7.5cm to 10cm diameter	RM	10.80
	METAL AND IRON ITEMS		
72	Mild steel plates or sheets BG 10	Kg.	43.00

Sl. No.	Description	Unit	Rates in Rupees
73	Mild Steel Angles 25mm x 25mm x 3mm	Kg.	43.00
74.a)	Binding wire (Black 18G)	Kg.	45.60
b)	Binding wire (Galvanised – 18G)	Kg.	45.60
75	G.I. sheets 30cm wide and 1.6mm thick	sq.m.	318.00
76	Weld mesh		
i)	7.5 x 2.5cm, 10 gauge	sq.m.	308.00
ii)	7.5cm x 5cm, 10 gauge	sq.m.	277.00
iii)	10cm x 10cm, 10 gauge	sq.m.	150.00
77	Chicken Mesh	sq.m.	33.00
78	Fly Proof Mesh	sq.m.	95.00
79	Supplying mild steel grills for windows, ventilators, etc., including priming coat	Kg.	62.00

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.

**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	Rates in Rupees
1	Water proofing compound	Kg	42.35
2	Mild Steel Flats of all sizes	Kg	43.00
3	Mild Steel Square Rods of all sizes	Kg	43.00
4	First Quality Design Ceramic tiles of All colours		
i	305 mm x 305 mm x 6 mm	Each	54.30
ii	200 mm x 200 mm x 6 mm	Each	23.90
iii	200 mm x 100 mm x 6 mm	Each	12.95
5	First Quality Plain ceramic tiles of all colours		
i	305 mm x 305 mm x 6 mm	Each	38.85
ii	200 mm x 200 mm x 6 mm	Each	17.40
iii	200 mm x 100 mm x 6 mm	Each	9.00
6	First quality White glazed tiles		
i	150 mm x 150 mm x 6 mm	Each	9.00
ii	100 mm x 200 mm x 6 mm	Each	7.75
7	First quality colour glazed tiles		
i	150 mm x 150 mm x 6 mm	Each	10.30
ii	100 mm x 200 mm x 6 mm	Each	9.00
8	First quality colour glazed tiles with printed design		
i	150 mm x 150 mm x 6 mm	Each	12.20
ii	100 mm x 200 mm x 6 mm	Each	10.95
9	White Cement	Kg	25.30
10	Colour Cement (White cement mixed with colouring pigments)	Kg	29.30
11	Multi-colour marble chips of all Grades / Sizes	Bag	97.00
12	White Marble slab (Adanga) 18 mm to 20 mm thick		
i	4'0" x 2'0" and above	sq.m.	935.00
ii	2'0" x 2'0" or 2'0" x 1'0" or 1'0" x 1'0"	sq.m.	511.00
13	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.	902.00
b	Ruby Red, Raw Silk	sq.m.	781.00
c	Sinthetic Grey, Paradise and Similar varieties.	sq.m.	726.00
14	Granite slabs (Super fine polished with machine cut edges) of sizes 4'x2' and above 18mm to 20mm thick.		
a	Jet Black	sq.m.	1815.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
b	Ruby Red, Raw Silk	sq.m.	1694.00
c	Sinthetic Grey, Paradise and Similar varieties.	sq.m.	1331.00
15	Polished shahabad stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above.	sq.m.	363.00
16	Polished shahabad stone slabs 20 mm thick with machine cut edges of size below 2' 0" x 2'0".	sq.m.	302.00
17	Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above.	sq.m.	533.00
18	Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size below 2'0" x 2'0".	sq.m.	467.00
19	Dolphur stone slabs - semi polished with machine cut edges of all sizes		
a	40 mm thick	sq.m.	398.00
b	20 mm thick	sq.m.	363.00
20	Aluminium strips of size 40 mm wide x 1.5 mm thick	RM	33.08
21	Brass strips of size 40 mm wide x 1.5 mm thick	RM	60.00
22	Glass strips of size 40 mm wide and 4 mm thick	RM	15.00
23	Marblex Tiles 3 mm thick	sq.m.	647.00
24	Red Oxide - Superior quality for floor finish	Kg	127.00
25	Decorative pressed tiles of 12 mm thick of all sizes and shapes	sq.m.	1150.00
26	Exterior Emulsion Paint - Water based primer (Liquid)	Litre	145.00
27	Alkali Resistant Distemper Primer	Litre	145.00
28	Sandtex matt	Litre	169.00
29	Vinaratex or equivalent Textured coat	sq.m.	218.00
30	Best Lac Polish / French Polish	Litre	282.00
31	Varnish	Litre	290.00
32	Cotton Waste	Kg	9.20
33	Cement based Hydraulically pressed Anti skid tiles (pattern design) - 20 mm thick	sq.m.	484.00
34	Marble Powder	Kg	4.80
35	Polishing Stone		
i	Rough	Each	63.50
ii	Medium	Each	88.90
iii	Fine / Nice	Each	101.60
36	Oxalic Acid	Kg	39.80
37	Turpentine	Litre	26.60
38	Mansion polish	400 gram	166.00
39	Poly Sulphide	Kg	181.00
40	Primer for expansion joints	Kg	162.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
41	Filler material	sq.m.	139.00
42	Bond Breaker	RM	3.60
43	PVC Water Bar 150mm wide with single bulb	RM	284.00
44	Plain G.I. sheet 0.8mm thick (22 Gauge)	sq.m.	332.00
45	Phil Plug	Each	4.80
46	G.I. Screws		
i	30mm x 6mm	Each	1.20
ii	19mm x 6mm	Each	0.75
47	G.I. Limpet / Cup Washers	Each	1.75
48	Bitumen washers 15mm dia	Each	1.20
49	Asbestos Cement pipe - 100mm dia	3 RM	142.60
50	A.C. shoe - 100mm dia	Each	45.35
51	A.C. Bend - 100mm dia	Each	51.85
52	A.C. Cylindrical Cowl - 100mm dia	Each	77.80
53	C.I. Brackets for A.C. pipe 100mm dia	Each	19.95
54	C.I. Grating - 100mm dia	Each	29.30
55	Asbestos cement fully corrugated sheet - 6mm thick	sq.m.	187.65
56	Asbestos cement plain sheet		
i	6mm thick	sq.m.	168.50
ii	4mm thick	sq.m.	116.70
57	Asbestos cement adjustable ridges	Pair	194.40
58	G.I. "J" or "L" Bolts with nuts 6mm Dia	Each	3.60
59	Steel - special extruded sections for steel windows and ventilators conforming to I.S.S. 7452 / 1990 including Fabrication charges	Kg	57.00
60	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	384.50
b	With powder coated primer	RM	410.00
61	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	321.00
b	With powder coating of any colours.	Kg	343.00
62	Alumminium Extruded Box Section for Staircase Hand Rails including charges for Anodising for 15 micron thickness - Natural colour matt finish	Kg	327.00
63	Rubber beading for aluminium glazed doors	RM	38.10
64	Rubber beading for aluminium glazed windows.	RM	29.10

Sl. No.	Name of Materials	Unit	Rates in Rupees
65	PVC / Woollen felt for aluminium doors 6mm thick	RM	8.45
66	Pivot for Aluminium Door	Set	152.40
67	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	867.30
68	Hydraulic Floor springs of various sizes double acton 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	2079.00
69	Lock for Aluminium doors	Each	250.00
70	Lock for Aluminium sliding windows	Each	62.30
71	Aluminium Grill of standard pattern (diamond shape)- 10mm thick including 'F' (or) 'H' Section.	sq.m.	2050.00
72	Aluminium Grill of standard pattern (diamond shape)- 6mm thick including 'F' (or) 'H' Section.	sq.m.	1660.00
73	Bolts and Nuts 10mm dia for false ceiling	Each	5.25
74	Rawl Plugs for false ceiling	Each	8.40
75	PVC Roller for sliding windows	Each	13.95
76	Synthetic Resin - Fevicol or equivalent (Phenol Formal Dehide based Resin)	Kg	181.50
77	Butt Hinges with nylon washers of various sizes. Length and width (with required screws).		
a	125mm x 30mm	Each	73.30
b	100mm x 30mm	Each	58.90
c	75mm x 30mm	Each	40.40
d	50mm x 30mm	Each	32.65
78	Tower Bolts of various lengths and diameter (with required screws)		
a	400mm long and 12mm dia	Each	138.60
b	300mm long and 12mm dia	Each	106.65
c	250mm long and 12mm dia	Each	80.00
d	200mm long and 12mm dia	Each	67.25
e	150mm long and 12mm dia	Each	53.10

Sl. No.	Name of Materials	Unit	Rates in Rupees
f	100mm long and 10mm dia	Each	46.60
g	75mm long and 10mm dia	Each	32.65
79	Aldrops of following lengths and diameter with required screws, bolts and nuts.		
a	300mm long and 16mm dia	Each	192.80
b	250mm long and 16mm dia	Each	166.30
c	200mm long and 16mm dia	Each	112.60
d	200mm long and 12mm dia	Each	93.50
80	Handles "D" type of various sizes with required screws		
a	200mm long	Each	59.30
b	150mm long	Each	53.10
c	100mm long	Each	32.60
81	Ornamental handles of various sizes with required screws		
a	200mm long	Each	159.95
b	150mm long	Each	106.65
c	100mm long	Each	58.90
82	Aluminium door stopper with rubber bush with required screws	Each	48.90
83	Rubber bush - 40 mm dia and 60 mm long with required screws	Each	24.20
84	Mortice Lock-(Godrej or equivalent) with required screws with 3 Keys		
a	With night latch	Each	534.70
b	Without night latch	Each	399.60
c	Wire nails	Kg	63.50
85	Teakwood beading		
a	15mm x 12mm	RM	17.30
b	35mm x 12mm	RM	43.80
86	Teakwood Beading (ordinary)		
a	30mm x 12mm	RM	36.30
b	25mm x 12mm	RM	29.20
87	Teakwood beading - Ornamental / design		
a	40mm x 12mm	RM	102.00
b	40mm x 15mm	RM	117.00
c	25mm x 12mm	RM	79.80
d	15mm x 12mm	RM	55.00
88	Medium Density Fibre (MDF) Board - Exterior Grade, Both sides pre-laminated including external lipping with kiln dried soft wood 35mm thick	sq.m.	2330.00
89	Medium Density Fibre (MDF) Board - exterior Grade - Both sides pre-laminated, 12mm thick	sq.m.	1120.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
90	MDF Board exterior Grade - Plain including external lipping with kiln dried soft wood		
i	35mm thick	sq.m.	1900.00
ii	30mm thick	sq.m.	1750.00
91	Medium density fibre (MDF) Board 12 mm thick Exterior grade - with melamine finish.		
a	One side melamine finish	sq.m.	1190.00
b	Both sides melamine finish	sq.m.	1340.00
92	Medium density fibre (MDF) board - Exterior grade - Plain - With teak wood external lipping alround		
a	35mm thick	sq.m.	2040.00
b	30mm thick	sq.m.	1820.00
93	Solid core Flush shutters with Teak ply on both side with teak wood lipping alround 35 mm thick	sq.m.	2410.00
94	Solid core Flush shutters with Teak ply on one side and commercial ply on other side with teak wood lipping alround 35 mm thick	sq.m.	2110.00
95	Solid core Flush shutters with commercial ply on both side with teak wood lipping alround 35 mm thick	sq.m	1820.00
96	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 rabate for housing the shutter.		
a	Solid panel PVC door with frame	sq.m.	3015.00
b	Solid panel PVC door without frame	sq.m.	2545.00
97a	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.	3940.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
b	Excluding door frames	sq.m.	3270.00
98a	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.	2155.00
b	Excluding door frames	sq.m.	1905.00
99	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	321.00
100	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	908.00
101	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1.6mm thick) of size 100mmx60mm 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	1270.00
102	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.	2430.00
b	Gear operated type (from 8 m ² to 12 m ² area)	sq.m.	2700.00
c	Electrically operated type (exceeding 12m ² area)	sq.m.	2940.00
B	ROLLING GRILLS (WITH ISI MONOGRAM)		
a	Manually operated (up to 8 m ² area)	sq.m.	2480.00
b	Gear operated (from 8 m ² to 12 m ² area)	sq.m.	2777.00
c	Electrically operated (exceeding 12 m ² area)	sq.m.	3090.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
103	Barbed Wire - 10 Gauge - Two ply and four pronged (Galvanised)	1 Kg or 6 RM	69.30
104	Chain link - 2" x 2" using 10 Gauge Galvanised Iron Wire (of all sizes)	sq.m.	178.50
105	Pin Headed / Fluted / Figured Glass 3mm thick	sq.m.	242.00
106	Plain Glass - 4mm thick	sq.m.	326.70
107	Plain Sheet Glass - 5.5mm thick	sq.m.	387.20
108	Metal screws (for Aluminium Doors, windows etc.)		
i	75mm x 8mm	Each	2.30
ii	38mm x 6mm	Each	1.65
iii	19mm x 8mm	Each	1.15
iv	19mm x 6mm	Each	0.85
109	Cement paint (First quality)	Kg	53.10
110	Oil Bound Distemper	Kg	78.50
111	Acrylic Distemper	Kg	90.60
112	Primer for Plastic Emulsion paint	Litre	156.75
113	Plastic Emulsion paint (First quality)	Litre	315.15
114	Wood Primer	Litre	156.75
115	Synthetic Enamel paint for Wood work	Litre	254.10
116	Red Oxide primer for Iron work	Litre	145.50
117	Synthetic Enamel paint for Iron work	Litre	242.55
118	Brass chromium plated screw down Tap 15 / 12mm Dia (Heavy Type)	Each	211.00
119	Chromium plated stop cock 15mm Dia	Each	169.00
120	Brass chromium plated pillar Tap (Heavy type)- 15/12mm Dia	Each	302.00
121	Brass chromium plated shower Rose - 100mm Dia	Each	217.00
122	Wooden plug, clamp and screws	Set	12.10
123	Shellac	100 gram	18.15
124	Thread Ball	Each	3.60
125	Oriya Type Indian Water closet 580mm x 440mm with "P" or "S" Trap		
i	White	Set	1143.00
ii	Colour	Set	1459.00
126	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 flushing tank with all internal fittings		
i	White	Set	2920.00
ii	Colour	Set	3300.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
127	European water closet with "P" or "S" Trap with Double flapped seat and seat cover with Brass Hinges and 12.5 litre capacity Porcelain low level flushing tank with all internal fittings		
i	White	Set	4120.00
ii	Colour	Set	4960.00
128	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 pedestal	Set	1585.00
ii	White with pedestal	Set	1905.00
iii	Colour without pedestal	Set	2125.00
iv	Colour with pedestal	Set	2345.00
129	White Porcelain 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	2030.00
130	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	729.00
131	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	964.00
132	Lipped Mouth Porcelain 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	889.00
ii	Colour	Set	1018.00
133	Porcelain soap dish of size 150mm x 150mm x 50mm		
i	White	Each	186.00
ii	Colour	Each	254.00
134	Brass chromium plated soap tray of size 150mm x 100mm	Each	156.00
135	Brass chromium plated towel rail 60cm long and 20mm dia with Brackets	Set	254.00

Sl. No.	Name of Materials	Unit	Rates in Rupees
136	Anodised Aluminium Towel Rail 60cm long and 20mm dia with Brackets.	Set	127.00
137	PVC / Fibre Glass framed 5.5mm thick mirror, shelf type with Hard Board Backing		
i	600mm x 450mm	Each	471.00
ii	500mm x 400mm	Each	381.00
138	Stone ware gully trap of size 150mm x 100mm with cast Iron Double Gratings	Each	169.00
139	Cast Iron Nahini / Floor Trap with stainless Steel Grating		
i	100mm x 75mm	Each	277.00
ii	75mm x 50mm	Each	217.00
140	PVC Nahini / Floor Trap with PVC Grating		
i	100mm x 75mm	Each	150.00
ii	75mm x 50mm	Each	132.00
141	Spun Yarn	Kg	12.60
142	Hemp Yarn	Kg	11.30
143	Gunny Tape / Kithan	sq.m.	11.30
144	Tar	Kg	42.60
145	Bitumen Felt 15 mm thick pad	sq.m.	266.00
146	Supplying, fabricating, erecting and fixing gyp board false ceiling upto a ceiling height of 4.5m from floor level.		
a	Using plain sheets (10mm thick)	sq.m.	801.00
b	Using perforated sheets (10mm thick)	sq.m.	1035.00
147	Supplying and laying Glass wool for insulation including necessary packing materials.		
a	Using 50mm thick Glass wool	sq.m.	390.00
b	Using 25mm thick Glass wool	sq.m.	208.00
148	Vitrified Tiles of size 600 x 600 x 8 mm	sq.m.	1039.00
149	Pre-polished concrete anti-skid step tiles of 20mm thick	sq.m.	584.00
150	Colour designed glazed tiles 300 x 200 x 6 mm	Each	32.60
151	Squatting Urinal	Set	485.00
152	CI Brackets for fixing the sink	set	115.00
153	Swan Neck Tap	Each	271.00
154	Brass Screws (30 x 6 mm)	Each	2.40
155	Brass Screws (75 x 10 mm)	Each	4.80
156	Special clamp, teak wood plugs and screws	Set	24.15
157	PVC Clamp, teak wood plugs and screws	Set	9.65

Sl. No.	Name of Materials	Unit	Rates in Rupees
158	Teak Wood plug	Each	1.25
159	Teak wood plug (50 x 50 x 100 mm)	Each	6.30
160	Manhole cover 60 x 60 cm (heavy duty) with frame	Each	2079.00
161	Welding Charges		
a	50 mm	Each	1.85
b	40 mm	Each	1.45
162	Add for painting/ tarring for Hex Nipple	Each	2.40
163	Labour charges for fixing cuddapah slab to cup board	sq.m.	38.00
164	Hire charges for polishing machinery	Day	190.00
165	Electricity charges	Unit	9.90
	WATER SUPPLY AND SANITARY ARRANGEMENTS	Unit	(10kg per cm²)
166	PVC ITEMS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM)		
1	PVC Pipes		
a	15 mm Dia	RM	15.10
b	20 mm Dia	RM	22.35
c	25 mm Dia	RM	38.10
d	32 mm Dia	RM	56.90
e	40 mm Dia	RM	89.00
Note	(1) For Rainwater down fall pipe works, only PVC Pipe of working Pressure of 4 kg. per sq.cm. shall be adopted. (2) For Sanitary arrangement items of works, only PVC Pipe of working Pressure of 6 kg. per sq.cm. shall be adopted. (3) For Water Supply arrangement items of works, only PVC Pipe of working Pressure of 10 kg. per sq.cm. shall be adopted.		
167	PVC Specials for water supply arrangements		
A	Coupler		
a	15 mm Dia	Each	3.75
b	20 mm Dia	Each	4.35
c	25 mm Dia	Each	5.00
d	32 mm Dia	Each	6.35
e	40 mm Dia	Each	9.45
B	Elbow		
a	15 mm Dia	Each	5.60
b	20 mm Dia	Each	6.35
c	25 mm Dia	Each	8.85
d	32 mm Dia	Each	12.70
e	40 mm Dia	Each	17.75

Sl. No.	Name of Materials	Unit	Rates in Rupees (10kg per cm ²)
C	BEND		
a	15 mm Dia	Each	6.35
b	20 mm Dia	Each	7.60
c	25 mm Dia	Each	10.10
d	32 mm Dia	Each	15.10
e	40 mm Dia	Each	20.30
D	Tee		
a	15 mm Dia	Each	7.60
b	20 mm Dia	Each	8.85
c	25 mm Dia	Each	12.70
d	32 mm Dia	Each	15.20
e	40 mm Dia	Each	25.40
E	End Cap		
a	15 mm Dia	Each	3.75
F	Reducer		
a	20 mm x 15 mm	Each	5.00
b	25 mm x 20 mm	Each	5.60
c	32 mm x 25 mm	Each	8.85
d	40 mm x 32 mm	Each	11.95
e	50 mm x 40 mm	Each	20.30
G	Reducer Tee		
a	20 mm x 15 mm	Each	7.60
b	25 mm x 20 mm	Each	8.85
c	32 mm x 25 mm	Each	12.70
d	40 mm x 32 mm	Each	15.20
e	50 mm x 40 mm	Each	25.40
H	Reducer Elbow		
a	20 mm x 15 mm	Each	6.35
b	25 mm x 20 mm	Each	7.60
c	32 mm x 25 mm	Each	10.10
d	40 mm x 32 mm	Each	12.70
e	50 mm x 40 mm	Each	19.05
J	Jet Nipple		
a	25 mm Dia	Each	16.45
b	32 mm Dia	Each	21.55

Sl. No.	Name of Materials	Unit	Rates in Rupees	
			"O" Ring Jointing	By Pasting
168	PVC SPECIALS FOR SANITARY ARRANGEMENTS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM)			
A	Elbow			
a	75 mm	Each	69.60	56.90
b	90 mm	Each	89.00	69.60
c	110 mm	Each	107.80	89.00
d	160 mm	Each	120.50	101.80
B	Door Elbow			
a	75 mm	Each	89.00	63.60
b	90 mm	Each	114.50	76.30
c	110 mm	Each	139.80	120.50
d	160 mm	Each	165.40	139.90
C	Tee			
a	75 mm	Each	95.10	89.00
b	90 mm	Each	120.50	107.80
c	110 mm	Each	158.70	146.00
d	160 mm	Each	178.10	157.80
D	Tee with Door (Single)			
a	75 mm	Each	120.50	114.50
b	90 mm	Each	146.00	127.00
c	110 mm	Each	184.20	171.40
d	160 mm	Each	222.30	203.70
E	Tee with Door (Double)			
a	75 mm	Each	152.70	146.00
b	90 mm	Each	209.60	190.80
c	110 mm	Each	254.60	241.80
d	160 mm	Each	292.70	259.30
F	Bend			
a	75 mm	Each	76.30	63.60
b	90 mm	Each	95.10	76.30
c	110 mm	Each	114.50	95.10
d	160 mm	Each	127.10	107.80
G	"Y"			
a	75 mm	Each	101.80	95.10
b	90 mm	Each	127.10	114.50
c	110 mm	Each	165.40	152.70
d	160 mm	Each	184.20	165.40
H	"Y" with Door (single)			
a	75 mm	Each	120.50	114.50
b	90 mm	Each	152.70	133.30

Sl. No.	Name of Materials	Unit	Rates in Rupees	
			"O" Ring Jointing	By Pasting
c	110 mm	Each	203.70	178.10
d	160 mm	Each	235.20	209.60
I	"Y" with Door (Double)			
a	75 mm	Each	165.40	158.70
b	90 mm	Each	222.30	203.70
c	110 mm	Each	267.30	254.10
d	160 mm	Each	323.40	292.50
J	Double Tee with Door (Single)			
a	75 mm	Each	209.60	171.40
b	90 mm	Each	241.80	196.90
c	110 mm	Each	284.80	247.90
d	160 mm	Each	318.20	280.00
K	Double "Y" with Door (single)			
a	75 mm	Each	229.10	190.80
b	90 mm	Each	254.60	216.40
c	110 mm	Each	292.70	273.30
d	160 mm	Each	356.40	318.00
L	Reducer			
a	75 mm x 63 mm	Each	69.60	56.90
b	110 mm x 63 mm	Each	89.00	76.30
c	110 mm x 75 mm	Each	101.80	89.00
d	110 mm x 90 mm	Each	114.40	101.80
f	160 mm x 110 mm	Each	133.30	127.00
M	Shoe			
a	110 mm dia	Each		76.30
b	160 mm dia	Each		114.40
N	Vent Cowl			
a	50 mm dia	Each		31.50
b	75 mm dia	Each		50.90
c	110 mm dia	Each		76.30
	OTHER ITEMS :			
169	PVC screw down tap heavy type 20 mm dia.	Each	78.10	
170	PVC screw down tap heavy type 15 mm dia.	Each	60.50	
171	PVC Adhesive (solution)	100 gm	36.30	
172	PVC low level flushing tank with all internal fittings - (wall mounting type)			
a	White - 10 litre capacity	Set	908.00	
b	White - 7.5 litre capacity	Set	696.00	
c	Colour - 10 litre capacity	Set	1030.00	
d	Colour - 7.5 litre capacity	Set	817.00	

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 in Rupees
	PART-A		
1	INCANDESCENT BULBS 230V/ 250V GRADE BC/ES WITH ISI		
a.	15 Watts	Each	11.20
b.	25 Watts	Each	11.20
c.	40 Watts	Each	11.20
d.	60 Watts	Each	11.20
e.	100 Watts	Each	11.20
f.	200 Watts	Each	22.40
2	INCANDESCENT BULB 230V/250V GRADE BC/ ES		
a.	Colour 15 Watts	Each	13.70
b.	Blended lamp 160 Watts	Each	271.00
3	PL LAMP (PHILIPS/ OSRAM)		
a.	9 Watts	Each	84.10
b.	11 Watts	Each	89.70
c.	18 Watts	Each	141.20
d.	36 Watts	Each	157.00
4	FLUORESCENT TUBULAR LAMPS WITH ISI MARK		
a.	Cool Day light 2 Ft. 20 Watts	Each	42.30
b.	Cool Day light 4 Ft. 40 Watts	Each	42.30
c.	Cool Day light 4 Ft. 36 Watts	Each	41.30
5	MERCURY VAPOUR DISCHARGE LAMP 230V GRADE 3 PIN BC		
a.	80 Watts	Each	194.80
b.	125 Watts	Each	204.00
c.	250 Watts	Each	498.00
d.	400 Watts	Each	702.00
6	BOX TYPE SINGLE FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE WITH ISI MARK		
a.	4 Ft. 40 Watts with ballast	Each	360.00
b.	4 Ft. 40 Watts Box type with Ballast (Philips/ Crompton / Wipro)	Each	529.00
7	BOX TYPE TWIN FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR[HPF] COMPLETE WITH ISI MARK		
a.	4 Ft. 40 Watts	Each	676.00

Item No.	Description	Unit	Rates in Rupees
b.	4 Ft. 40 Watts Box type (Philips/ Crompton) With Ballast	Each	882.00
8	INDUSTRIAL TYPE FLUORESCENT FITTING STOVE ENAMELLED WITH COPPER CHOKE AND CONDENSOR (HPF) 4 Ft. 40W		
a.	Single type suitable for 1 No. tube	Each	994.00
b.	Twin type suitable for 2 Nos. tube	Each	1224.00
9	DECORATIVE AND SINGLE FLUORESCENT TYPE FITTING WITH COPPER CHOKE AND CONDENSOR (HPF) COMPLETE SUITABLE FOR ONE NUMBER FLUORESCENT TUBE WITH ISI MARK		
a.	4 Ft. 40 Watts with Perspex		Deleted
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 fitting	Each	1713.00
b.	4 Ft. 40W Twin Mirror optic Suspension type fitting. (Philips/ Crompton /Wipro)	Each	3090.00
c.	4 Ft. 40W Twin Mirror Optic Recessed mounting type fitting (Philips/ Crompton/ Wipro)	Each	2264.00
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	754.00
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	1014.00
13	POST TOP LANTERN FITTING OF (INTEGRAL TYPE) WITH COPPER CHOKE AND CONDENSOR & NECESSARY ACCESSORIES (PHILIPS/ CROMPTON GREAVES/WIPRO)(SPHERICAL / RIBBED / CONICAL ACRYLIC COVER)		
a.	Suitable for 125 Watts M.V lamp	Each	3650.00
b.	Suitable for 70 Watts S.V. Lamp	Each	3845.00
c.	Post top lantern fitting with S.C. holder suitable for 160 W blended lamp/ incandescent lamp	Each	2100.00

Item No.	Description	Unit	Rates in Rupees
14	STARTERS FOR FLUORESCENT TUBES		
a.	Starters of capacity 20 Watts	Each	11.20
b.	Starters of capacity 40 Watts	Each	11.20
15	POLYSTER FILLED COPPER CHOKE 250V/ 50 HZ GRADE SUITABLE FOR (PHILIPS/CROMPTON/ WIPRO)		
a.	20 Watts fluorescent Tube	Each	199.00
b.	40 Watts fluorescent Tube	Each	199.00
c.	36/40W Electronic ballast for flu. Tube (Philips/Crompton)	Each	330.00
d.	36/40W Electronic ballast for flu. Tube (Indo Asean/ Equivalent)	Each	269.00
16	CONDENSOR FOR S.V/ M.V LAMP		
a.	8 Mfd for 80 Watts Bulb	Each	126.00
b.	10 Mfd for 125 watts Bulb	Each	151.00
c.	15 Mfd for 250 Watts Bulb	Each	201.00
d.	20 Mfd for 400 watts Bulb	Each	278.00
17	Battern type Bakelite holder for lamp	Each	20.20
18	Water tight bulk head fitting suitable for 100/60 watts lamp with guard heavy type (PHILIPS/ BAJAJ/ CROMPTON GREAVES)	Each	336.00
19	Ceiling Rose	Each	16.80
20.a.	Ceiling fixtures 250/300mm complete with Gallery etc. Clear glass opac/ crystal suitable for 40/60 Watts Bulb	Each	198.00
b.	Ceiling luminaire with mirror optics suitable for 2 Nos. 4 Watts / 11 Watts (Philips / Crompton / Bajaj)	Each	1254.00
	(FOR ITEMS 6 TO 13, 20 & 22 , THE RATES ARE EXCLUSIVE OF COST OF TUBES AND LAMPS)		
21	Fan Clamp (Dia 12 mm) with 6 mm MS side Plates & 45 CM Cross arm	Each	134.00
22	CALL BELLS		
a.	Call bell/ Buzzar 6mm suitable for AC/DC	Each	50.40
b.	Push bell	Each	20.20
c.	Gong bell 9" size suitable for 250 V	Each	504.00
d.	Gong bell 12" size suitable for 250V	Each	730.00
23	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	Each	5880.00

Item No.	Description	Unit	Rates in Rupees
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(Venus/Racold)	Each	7940.00
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	Each	6820.00
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(Venus/Racold)	Each	9120.00
PART 'B'			
I	FANS – CONFORMING TO ISS 374 / 1979		
a.	AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod. (without regulator)	Each	1340.00
b.	AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod. (Without regulator)	Each	1440.00
c.	Stepped electronic 300W/450W square type fan regulator (Anchor Deluxe/Equivalent)	Each	228.00
d.	Dimmer type electronic 300W/450W square type fan regulator (Anchor Deluxe/Equivalent)	Each	182.00
e.	AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod. (without regulator) (Crompton make)	Each	1520.00
f.	AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod (Without regulator) (Crompton make)	Each	1640.00
II	EXHAUST FANS		
a.	AC Exhaust Fan 225 mm (9") sweep (Light duty)	Each	1240.00
b.	AC Exhaust Fan 300 mm (12") sweep (Light duty)	Each	1420.00
c.	AC Exhaust Fan 375 mm (15") sweep (Light duty)	Each	1460.00
d.	AC Exhaust Fan 450 mm (18") sweep (Light duty)	Each	2060.00
e.	AC Exhaust Fan 375 mm (15") sweep (Heavy duty)	Each	2700.00
f.	AC Exhaust Fan 450 mm (18") sweep (Heavy duty)	Each	3360.00
III	LOUVER SHUTTERS ARRANGEMENTS		
a.	MS/Fibre Louvers shutters arrangements for 300mm AC Exhaust Fan	Each	269.00
b.	MS/Fibre Louvers shutters arrangements for 375mm AC Exhaust Fan	Each	285.00

Item No.	Description	Unit	Rates in Rupees
c.	MS/Fibre Louvers shutters arrangements for 450mm AC Exhaust Fan	Each	319.00
	PART "C"		
I	SWITCHES		
a.	5 Amps (Flush type)	Dozen	207.00
b.	5 Amps (Flush type staircase)	Dozen	258.00
II	DOUBLE POLE SWITCHES(GEM / HPL / HAVELLS / EQUIVALENT)		
a.	16 Amps DP Switch with metal clad (front handle)	Each	485.00
b.	32 Amps DP Switch with metal clad (front handle)	Each	994.00
c.	16 Amps DP Switch with metal clad (side handle)	Each	401.00
d.	32Amps DP Switch with metal clad (side handle)	Each	902.00
III.	TRIPLE POLE SWITCHES (SIDE HANDLE) (STANDARD /HPL/HAVELLS/ EQUIVALENT)		
a.	100 Amps TPN Switch with HRC fuses sheet steel double break	Each	6820.00
b.	125 Amps TPN Switch with HRC fuses sheet steel double break	Each	7470.00
c.	200 Amps TPN Switch with HRC fuses sheet steel double break	Each	9650.00
d.	315 Amps TPN Switch with HRC fuses sheet steel double break	Each	13700.00
e.	400 Amps TPN Switch with HRC fuses sheet steel double break	Each	17640.00
f.	16 Amps TPN Metal clad switch with rewirable fuse units	Each	1035.00
g	32 Amps TPN Metal clad switch with rewirable fuse units	Each	1530.00
h	63 Amps TPN Metal clad switch with rewirable fuse units	Each	3330.00
I	100 Amps Metal clad switch with rewirable fuse units	Each	6550.00
j	200 Amps Metal clad switch with rewirable fuse units	Each	9940.00
IV.A	SWITCH DISCONNECTOR FUSE UNITS IN SHEET STEEL ENCLOSURE (SDF) (L&T/SIEMENS)		
1	63 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	4210.00
2	100 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	7080.00

Item No.	Description	Unit	Rates in Rupees
3	125 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break.	Each	8360.00
4	200 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	10500.00
5	250 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	13100.00
6	315 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	15700.00
7	400 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break	Each	18000.00
IV.B.	SWITCH DISCONNECTOR FUSE UNITS IN OPEN EXECUTION (INTERIOR FOR CUBICAL) (L&T/SIEMENS)		
1	63A TPN Switch disconnecter fuse units interior only with HRC fuses Double break	Each	2780.00
2	100 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	5060.00
3	125 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	6900.00
4	200 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	8900.00
5	250 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	11600.00
6	315 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	14580.00
7	400 A TPN switch disconnecter fuse units interior only with HRC fuses Double break.	Each	17200.00
V	FUSE UNITS (ANCHOR /EQUIVALENT)		
a.	16 Amps Porcelain fuse unit (500 V)	Each	56.00
b.	32 Amps Porcelain fuse unit (500 V)	Each	99.00
c.	63 Amps Porcelain fuse unit (500 V)	Each	222.00
d.	100 Amps Porcelain fuse unit (500 V)	Each	399.00
e.	200 Amps Porcelain fuse unit (500 V)	Each	646.00
VI	SINGLE PHASE DBS (GEM /EQUIVALENT)		
a.	4 Way DB 16 Amps /Way with fuse & Neutral Each (250 V)	Each	539.00
b.	6 Way DB 16 Amps /Way with fuse & Neutral Each (250 V)	Each	733.00

Item No.	Description	Unit	Rates in Rupees
c.	8 Way DB 16 Amps /Way with fuse & Neutral Each (250 V)	Each	909.00
VII	THREE PHASE DBS(GEM /EQUIVALENT)		
a.	4 Way TPDB 16A/Way with fuse & Neutral link	Each	2125.00
b.	6 Way TPDB 16A/Way with fuse & Neutral link	Each	2910.00
c.	8 Way TPDB 16A/Way with fuse & Neutral link	Each	3520.00
d.	4 Way TPDB 32A/Way with fuse & Neutral link	Each	2690.00
e.	6 Way TPDB 32A/Way with fuse & Neutral link	Each	3590.00
f.	8 Way TPDB 32A/Way with fuse & Neutral link	Each	4540.00
g.	4 Way TPDB 63A/Way with fuse & Neutral link	Each	6280.00
h.	6 Way TPDB 63A/Way with fuse & Neutral link	Each	8080.00
VIII	CHANGE OVER SWITCHES(GEM /HAVELLS / HPL/ STANDARD /EQUIVALENT)		
a.	16 Amps three phase 500 V 4 pole Change over switch	Each	1460.00
b.	32 Amps three phase 500 V 4 pole Change over switch	Each	1730.00
c.	63 Amps three phase 500 V 4 pole Change over switch	Each	3780.00
d.	100 Amps three phase 500 V 4 pole Change over switch	Each	6010.00
e.	200 Amps three phase 500 V 4 pole Change over switch	Each	11300.00
	PART 'D'		
la.	5 Amps 3 pin and 2 pin combined flush type wall socket only.	Each	28.20
b.	5 Amps /15 amps.3 pin flush type wall socket only.	Each	63.50
c.	5 Amps 3 pin Top	Each	39.90
d.	15 Amps 3 pin Top	Each	56.50
e.	15 Amps Flush type switch	Each	65.80
f.	10 Amps M.C plug with 3 pin Top	Each	211.00
g.	20 Amps M.C plug with 3 pin Top	Each	240.00
II.A.	SINGLE PHASE WATT HOUR METERS [HPL/ EQUIVALENT)		
a.	AC single phase 230V/250V/50 HZ 5 Amps Watt Hour Meter	Each	1120.00
b.	AC single phase 230V/250V/50 HZ 10 Amps Watt Hour Meter	Each	1120.00
c.	AC single phase 230V/250V/50 HZ 20 Amps Watt Hour Meter	Each	1120.00
II.B.	THREE PHASE WATT HOUR METERS (ANCHOR / EQUIVALENT)		
a.	AC 3 phase 400V 50 HZ unbalanced load 4 wire 10 Amps Watt Hour Meter	Each	2310.00

Item No.	Description	Unit	Rates in Rupees
b.	AC 3 phase 400V 50 HZ unbalanced load 4 wire 25 Amps Watt Hour Meter	Each	2310.00
c.	AC 3 phase 400 V 50 HZ unbalanced load 4 wire 50 Amps Watt Hour Meter	Each	2930.00
	PART 'E'		
I	SERVICE CONNECTION ACCESSORIES LT. 1100V PVC ALUMINIUM CONDUCTOR ARMoured UNDER GROUND CABLE WITH ISI MARK		
a.	2 Core 6 sq.mm PVC armoured UG cable	Metre	99.20
b.	2 Core 10 sq.mm PVC armoured UG cable	Metre	120.80
c.	2 Core 16 sq.mm PVC armoured UG cable	Metre	131.00
d.	2 Core 25 sq.mm PVC armoured UG cable	Metre	148.90
II	PVC INSULATED SINGLE CORE MULTI STRAND FIRE RETARDANT FLEXIBLE COPPER CABLE WITH ISI MARK CONFORMING TO IS 694/ 1990		
a.	14/0.3 (1 sq.mm)	Metre	9.10
b.	22/0.3 (1.5 sq.mm)	Metre	14.30
c.	36/0.3 (2.5 sq.mm)	Metre	22.20
d.	56/0.3 (4 sq.mm)	Metre	35.20
e.	84/0.3 (6 sq.mm)	Metre	52.20
f.	140/0.3 (10 sq.mm)	Metre	78.30
g.	101/0.45 (16 sq.mm)	Metre	128.00
h.	168/0.45 (25 sq.mm)	Metre	282.00
III	CONDUCTOR		
a.	Hard drawn copper conductor(Gauge No.8 & 6)	KG	529.00
b.	14 SWG TC wire	KG	541.00
c.	GI No.8 wire and No. 6 wire	KG	89.70
IV	CABLE GLANDS		
a.	Cable gland suitable for 2 core 4 sq.mm UG cable	Each	19.80
b.	Cable gland suitable for 2 core 6 sq.mm UG cable	Each	24.60
c.	Cable gland suitable for 2 core 10 sq.mm UG cable	Each	29.30
d.	Cable gland suitable for 2 core 16 sq.mm UG cable	Each	43.40
e.	Cable gland suitable for 2 core 25 sq.mm UG cable	Each	51.80
f.	Cable gland suitable for 3½ core 25 sq.mm UG cable	Each	51.80
g.	Cable gland suitable for 3½ core 35 sq.mm UG cable	Each	65.80
h.	Cable gland suitable for 3½ core 50 sq.mm UG cable	Each	65.80
I	Cable gland suitable for 3½ core 70 sq.mm UG cable	Each	81.10
j.	Cable gland suitable for 3½ core 95 sq.mm UG cable	Each	98.90

Item No.	Description	Unit	Rates in Rupees
k	Cable gland suitable for 3½ core 120 sq.mm UG Cable	Each	125.90
l	Cable gland suitable for 3½ core 150 sq.mm UG Cable	Each	165.70
m	Cable gland suitable for 3½ core 185 sq.mm UG Cable	Each	196.00
n	Cable gland suitable for 3½ core 240 sq.mm UG Cable	Each	196.00
o	Cable gland suitable for 3½ core 300 sq.mm UG Cable	Each	234.00
p	Cable gland suitable for 3 ½ core 400 sq.mm UG Cable	Each	334.00
q	Cable gland suitable for 3 ½ core 500 sq.mm UG Cable	Each	389.00
r	Cable gland suitable for 4 core 6 sq.mm UG Cable	Each	24.60
s	Cable gland suitable for 4 core 10 sq.mm UG Cable	Each	29.30
t	Cable gland suitable for 4 core 25 sq.mm UG Cable	Each	51.80
V	FUSE WIRE (COPPER)		
a.	5 Amps fuse wire	Kg	529.00
b.	10 Amps fuse wire	Kg	529.00
c.	20 Amps fuse wire	Kg	529.00
VI	NEUTRAL LINK 15 AMPS		
a.	4 way Neutral Link	Each	27.00
b.	6 way Neutral Link	Each	40.00
c.	8 way Neutral Link	Each	49.90
d.	12 way Neutral Link	Each	72.40
	PART ' F '		
	M.S. BOX WITH PAINTING (16 SWG)		
a.	M.S Box of Size (100 x 100 x 75mm)	Each	49.40
b.	M.S Box of Size (150 x 100 x 75mm)	Each	68.30
c.	M.S Box of Size (200 x 150 x 75mm)	Each	111.00
d.	M.S Box complete with Lock & Key arrangements with painting of size (300 x 200 x 100 mm)	Each	336.00
	PART ' G '		
I	MS ANGLES		
a.	1½ " x 1½" x 1/4" (37.5 x 37.5 x 6.24 mm) (1M= 3.25 Kg)	KG	51.40
b.	1½"x 1½" x ½" (37.5 x 37.5 x 12.5mm)	KG	51.40
c.	2" x 2" x ½" (50 x 50 x 12.5 mm)	KG	51.40
II	ALUMINIUM FLAT		
a.	Aluminium Flat (1"x 1/4") (25x 6.25 mm)	KG	195.00
b.	Aluminium Flat (1"x1/8")	KG	195.00
III	COPPER FLAT		
a.	Copper Flat (25 x 3 mm)	KG	529.00
b.	Copper Flat (25 x 6 mm)	KG	529.00

Item No.	Description	Unit	Rates in Rupees
c.	Copper Flat (33 x 6 mm)	KG	529.00
d.	Copper Flat (50 x 6 mm)	KG	529.00
IV	POWER CAPACITOR		
a.	Power capacitor for power factor improvement with oil filled with discharge resistance 3 phase 415/440V 50 HZ conforming to ISS: 2384 with ISI marking	KVAR	370.00
	PART ' H '		
I	CONDUIT MATERIALS 16 Gauge		
a.	Conduit pipe 16 mm (5/8") Heavy Gauge	Metre	33.60
b.	Conduit pipe 19 mm (3/4") Heavy Gauge	Metre	34.70
c.	Conduit pipe 25 mm (1") Heavy Gauge	Metre	42.70
d.	Conduit pipe 32 mm (1¼") Heavy Gauge	Metre	56.00
e.	Conduit pipe 38 mm (1½") Heavy Gauge	Metre	66.00
II	CONDUIT TEE BENDS		
a.	Conduit Tee bends 16 mm (5/8")	Dozen	94.00
b.	Conduit Tee bends 19 mm (3/4")	Dozen	95.00
c.	Conduit Tee bends 25 mm (1")	Dozen	114.00
d.	Conduit Tee bends 32 mm (1¼")	Dozen	118.00
e.	Conduit Tee bends 38 mm (1½")	Dozen	147.00
f.	Conduit Tee bends 50 mm (2")	Dozen	184.00
III	CONDUIT BENDS 16 Gauge		
a.	Conduit solid bends 16 mm (5/8")	Dozen	89.00
b.	Conduit solid bends 19 mm (3/4")	Dozen	99.00
c.	Conduit solid bends 25 mm (1")	Dozen	117.00
d.	Conduit solid bends 32 mm (1¼")	Dozen	138.00
e.	Conduit solid bends 38 mm (1½")	Dozen	196.00
f.	Conduit solid bends 50 mm (2")	Dozen	240.00
IV	CONDUIT INSPECTION BEND 16 Gauge		
a.	Conduit Inspection bends 16 mm (5/8")	Dozen	89.00
b.	Conduit Inspection bends 19 mm (3/4")	Dozen	92.00
c.	Conduit Inspection bends 25 mm (1")	Dozen	118.00
d.	Conduit Inspection bends 32 mm (1¼")	Dozen	142.00
e.	Conduit Inspection bends 38mm (1½")	Dozen	184.00
f.	Conduit Inspection bends 50mm (2")	Dozen	209.00
g.	Conduit Inspection bends 65mm (2½")	Dozen	269.00
	PART ' I '		
I	PVC (RIGID) PIPES (1.8 MM THICK) WITH ISI MARK		
a.	PVC rigid pipes 16mm (5/8")	Metre	14.40

Item No.	Description	Unit	Rates in Rupees
b.	PVC rigid pipes 20mm (3/4")	Metre	20.80
c.	PVC rigid pipes 25mm (1")	Metre	30.90
d.	PVC rigid pipes 32mm (1¼")	Metre	46.80
e.	PVC rigid pipes 40mm (1½")	Metre	66.70
f.	PVC rigid pipes 50mm (2")	Metre	99.90
II	PVC RIGID BENDS		
a.	PVC rigid bends 16mm (5/8")	Each	3.35
b.	PVC rigid bends 20mm (3/4")	Each	3.35
c.	PVC rigid bends 25mm (1")	Each	4.55
d.	PVC rigid bends 32mm (1¼")	Each	8.10
e.	PVC rigid bends 40mm (1½")	Each	20.20
f.	PVC rigid bends 50mm (2")	Each	24.50
III	PVC COUPLES		
a.	PVC Couples 16mm (5/8")	Dozen	14.40
b.	PVC Couples 19mm (3/4")	Dozen	14.40
c.	PVC Couples 25mm (1")	Dozen	28.00
d.	PVC Couples 32mm (1¼")	Dozen	63.90
e.	PVC Couples 38mm (1½")	Dozen	137.00
f.	PVC Couples 50mm (2")	Dozen	143.00
IV	PVC TEES		
a.	PVC Tees 16mm (5/8")	Dozen	14.40
b.	PVC Tees 19mm (3/4")	Dozen	16.70
c.	PVC Tees 25mm (1")	Dozen	21.30
d.	PVC Tees 32mm (1¼")	Dozen	95.40
e.	PVC Tees 38mm (1½")	Dozen	307.00
f.	PVC Tees 50mm (2")	Dozen	336.00
V	PVC Saddles		
a.	PVC Saddles 16 mm (5/8")	Dozen	3.35
b.	PVC Saddles 19mm (3/4")	Dozen	3.85
c.	PVC Saddles 25mm (1")	Dozen	4.45
d.	PVC Saddles 32mm (1¼")	Dozen	5.60
e.	PVC Saddles 38mm (1½")	Dozen	6.70
f.	PVC Saddles 50mm (2")	Dozen	13.40
VI	PVC JUNCTION BOXES		
a.	Junction boxes 1,2,3 & 4 way 16 mm (5/8")	Dozen	44.80
b.	Junction boxes 1,2,3 & 4 way 19 mm (3/4")	Dozen	44.80
c.	Junction boxes 1,2,3 & 4 way 25 mm (1")	Dozen	52.70
d.	Junction boxes 1,2,3 & 4 way 32 mm (1¼")	Dozen	117.00
e.	Junction boxes 1,2,3 & 4 way 38 mm (1½")	Dozen	139.00

Item No.	Description	Unit	Rates in Rupees	
VII	PVC Hylem sheets			
a.	Hylem sheet 3 mm thick	Sq.m		685.00
VIII	Insulation Tape PVC			
a.	PVC Insulation Tape (19mm)	Roll/10 mts		16.70
b.	Empire Tape (12 mm)	Roll/10 mts		22.40
c.	Empire Tape (19 mm)	Roll/10 mts		26.90
	PART ' J '			
	TEAK WOOD MATERIALS			
I	T.W. BOX CONCEALED TYPE			
a.	T.W. Box concealed type 12"x8"x3"	Each		84.20
b.	T.W.Box concealed type 8"x6"x3"	Each		44.80
c.	T.W. Box concealed type 6"x4"x3"	Each		20.10
d.	T.W. Box concealed type 4"x4"x3"	Each		16.70
e.	T.W. plugs 1½" x 1" x2"	1000 Nos.		347.00
f.	T.W. Round blocks	100 Nos.		673.00
	PART ' K '			
I	CRIMPING LUGS SUITABLE FOR THE FOLLOWING SIZES			
	Size		Aluminium	Copper
a.	4 Sq.mm	Each	1.60	4.65
b.	6 Sq.mm	Each	1.80	4.65
c.	10 Sq.mm	Each	2.30	5.85
d.	16 Sq.mm	Each	2.30	7.00
e.	25 Sq.mm	Each	3.50	11.75
f.	35 Sq.mm	Each	4.65	12.90
g.	50 Sq.mm	Each	7.00	15.25
h.	70 Sq.mm	Each	9.35	24.65
i.	95 Sq.mm	Each	10.60	30.60
j.	120 Sq.mm	Each	14.10	42.30
k.	150 Sq.mm	Each	18.80	54.10
l.	185 Sq.mm	Each	24.65	82.40
m.	225 Sq.mm	Each	36.50	117.30
n.	240 Sq.mm	Each	40.00	117.30
o.	300 Sq.mm	Each	55.30	158.70
p.	400 Sq.mm	Each	82.40	240.70
II	CABLE ROUTE INDICATOR			
a.	Cable route indicator for L.T/ cable	Each box		78.50
b.	Cable route indicator for H.T/ cable	Each box		78.50

Item No.	Description	Unit	Rates in Rupees
	PART ' L '		
I	BRASS SCREWS		
a.	Brass Screws (20mm) ¾" No.6	Gross	72.90
b.	Brass Screws (25mm) 1" No.6	Gross	78.50
c.	Brass Screws (40mm) 1½" No.6	Gross	84.10
d.	Brass Screws (20mm) ¾" No.8	Gross	72.90
e.	Brass Screws (25mm) 1" No.8	Gross	78.50
f.	Brass Screws (50mm)2" No.10	Gross	162.00
g.	Brass screws (75mm)3" No.10	Gross	240.00
II	Coach screws 2"x¼" (50 x 6.25mm)	Dozen	14.50
III	CONDUIT SADDLES		
a.	Conduit Saddles 16mm (5/8")	Gross	44.80
b.	Conduit Saddles 19mm (3/4")	Gross	47.70
c.	Conduit Saddles 25mm (1")	Gross	56.00
d.	Conduit Saddles 32mm (1¼")	Gross	72.90
e.	Conduit Saddles 38mm (1½")	Gross	89.70
f.	Conduit Saddles 50mm (2")	Gross	100.90
g.	Conduit Saddles 65mm (2½")	Gross	115.00
IV	SODIUM VAPOUR FITTINGS & LAMP		
	(For External Electrification & Campus lighting)		
a.	250 Watts Sodium Vapour fittings	Each	3550.00
b.	250 Watts Sodium Vapour lamp	Each	785.00
c.	150 Watts Sodium Vapour fittings	Each	3500.00
d.	150 Watts Sodium Vapour lamp	Each	673.00
e.	70 Watts Sodium Vapour fittings	Each	2830.00
f.	70 Watts Sodium Vapour lamp	Each	448.00
V	SODIUM VAPOUR LAMP FITTING SINGLE PIECE DIE CAST ALUMINIUM HOUSING & LAMP FOR HEAVY TRAFFIC ROADS (PHILIPS/ CROMPTON CREAVES/ WIPRO/BAJAJ)		
a.	400 Watts sodium vapour fittings	Each	10600.00
b.	400 Watts sodium vapour lamp	Each	1100.00
c.	250 Watts sodium vapour fittings	Each	7240.00
d.	250 Watts sodium vapour lamp	Each	890.00
e.	150 Watts sodium vapour fittings	Each	6800.00
f.	150 Watts sodium vapour lamp	Each	730.00
g.	70 Watts sodium vapour fittings	Each	2910.00
h.	70 Watts sodium vapour lamps	Each	504.00

Item No.	Description	Unit	Rates in Rupees
VI	MINIATURE CIRCUIT BREAKERS 240 V/ 415 V 50HZ AC SUPPLY SUITABLE FOR BOTH LIGHTING AND MOTOR CIRCUITS.	"Legrand" /Hager	All other ISI makes with ISI (Std.)/ HPL/ Havell's/ equivalent)
a.	Single pole 6A to 32A, 10 KA	Each	206.00
b.	Single pole 40A , 10 KA	Each	420.00
c.	Single pole & Neutral 6A to 32A, 10 KA	Each	599.00
d.	Single pole & Neutral 40A, 10 KA	Each	972.00
e.	Double pole 6A to 32A, 10 KA	Each	599.00
f.	Double pole 40A, 10 KA	Each	972.00
g.	Triple pole 6A to 32A, 10 KA	Each	964.00
h.	Triple pole 63A , 10 KA	Each	1470.00
I	Triple pole & Neutral 6A to 32A, 10 KA	Each	1270.00
j.	Triple pole & Neutral 63A, 10 KA	Each	1900.00
k.	Four pole 6A to 32A, 10 KA	Each	1270.00
l.	Four pole 63A, 10 KA	Each	1900.00
VII	MCB ISOLATORS		
	Legrand(MDS)/Hager(L&T)	All other Makes with IS (Standard)/HPL/ Havell's /equivalent)	
		DP	TP
		FP	DP
		TP	FP
a.	32 A each	316.00	527.00
b.	40 A each	436.00	754.00
c.	63 A each	584.00	877.00
d.	100 A each	—	700.00
		1060.00	1120.00
		495.00	788.00
		861.00	
VIII	PLUG AND SOCKETS IN SHEET STEEL ENCLOSURE WITHOUT MCBS	Legrand (MDS)/ Hager (L&T)	All other Makes with ISI (Std)/HPL /Havell's/ equivalent)
a.	10A single Pole	Each	993.00
b.	20A Single Pole	Each	1060.00
c.	20A Double Pole	Each	1150.00
d.	20A Triple Pole	Each	1950.00
e.	32A Triple Pole	Each	2320.00
f.	63A Triple Pole	Each	9450.00

Item No.	Description	Unit	Rates in Rupees	
		Legrand (MDS)/ Hager (L&T)	All other Makes with ISI (Std)/HPL /Havell's/ equivalent)	
IX-1	RCCB/ ELCB			
a.	10 Amps 30 MA DP	Each	2800.00	2060.00
b.	25 Amps 30 MA DP	Each	2310.00	1770.00
c.	40 Amps 30 MA DP	Each	2560.00	1870.00
IX-2	RCCB/ELCB (FOUR POLE)			
a.	25 Amps 30 MA	Each	3180.00	2180.00
b.	40 Amps 30 MA	Each	3220.00	2230.00
c.	63 Amps 30 MA	Each	3720.00	2530.00
X	HRC FUSES			
a.	16 Amps	Each	65.80	35.20
b.	32 Amps	Each	68.20	58.80
c.	63 Amps	Each	140.70	73.90
d.	125 Amps	Each	329.00	164.00
e.	160 Amps	Each	411.00	221.00
f.	200 Amps	Each	423.00	221.00
g.	250 Amps	Each	588.00	327.00

XI 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

I MODULE TYPE WITH IP 20 PROTECTION

Description	No. of ways incomer MCB/ Isolator	No. of ways incomer ELCB/RCD	No. of outgoing ways	Legrand (MDS) / HAGER (L & T) Rate in Rs.	All other makes with ISI (Std HPL / Havell's / equivalent) Rate in Rs.
4 Ways 3 Phase DB	4	4	12	5460.00	3970.00
8 Ways 3 Phase DB	4	4	24	6750.00	5320.00
12 Ways 3 Phase DB	4	4	36	9820.00	6470.00

II. 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 outgoing ways	Legrand (MDS) / HAGER (L & T)		All other makes with ISI (Std /HPL / Havell's / equivalent) (Rate in Rupees)
				With metal Door (Rate in Rupees)	With ACRYLIC door (Rate in Rupees)	
4 Ways 3 Phase DB	4	4	12	6340	7650	5210
8 Ways 3 Phase DB	4	4	24	8030	9740	6410
12 Ways 3 Phase DB	4	4	36	10700	12950	7880

III. 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	Legrand (MDS) / HAGER (L & T) Rate in Rs.
4 Ways 3 Phase DB	4	4	12	11830.00
8 Ways 3 Phase DB	4	4	24	14280.00
12 Ways 3 Phase DB	4	4	36	19170.00

XII 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 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

I MODULE TYPE WITH IP 20 PROTECTION

Description	No. of ways incomer MCB/ Isolator	No. of ways incomer ELCB/RCD	No. of outgoing ways	Legrand (MDS) / HAGER (L & T) Rate in Rs.	All other makes with ISI (Std/ HPL / Havell's / equivalent) Rate in Rs.
4 Ways 3 Phase DB	4	4	12	1950.00	1220.00
6 Ways 3 Phase DB	4	4	18	2420.00	1540.00
8 Ways 3 Phase DB	4	4	24	2880.00	1860.00
12 Ways 3 Phase DB	4	4	36	4310.00	2550.00

II. 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 outgoing ways	Legrand (MDS) / HAGER (L & T)		All other makes with ISI (Std /HPL / Havell's / equivalent) (Rate in Rupees)
				With metal Door (Rate in Rupees)	With ACRYLIC door (Rate in Rupees)	
4 Ways 3 Phase DB	4	4	12	2650.00	3090.00	2100.00
6 Ways 3 Phase DB	4	4	18	3270.00	3790.00	2660.00
8 Ways 3 Phase DB	4	4	24	3920.00	4520.00	3260.00
12 Ways 3 Phase DB	4	4	36	5790.00	6890.00	4420.00

III. 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	Legrand (MDS) / HAGER (L & T) Rate in Rs.
4 Ways 3 Phase DB	4	4	12	7480.00
6 Ways 3 Phase DB	4	4	18	9000.00
8 Ways 3 Phase DB	4	4	24	9840.00
12 Ways 3 Phase DB	4	4	36	13600.00

XIII 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

1. MODULE TYPE WITH IP 20 PROTECTION

Description	No. of ways incomer MCB/ Isolator	No. of ways incomer ELCB/RCD	No. of Sub incomers	No. of out going ways	Legrand (MDS) /HAGER(L&T) Rate in Rupees
4 Ways 3 Phase DB	4	4	12	12	5890.00
6 Ways 3 Phase DB	4	4	12	18	6320.00
8 Ways 3 Phase DB	4	4	12	24	6710.00
12 Ways 3 Phase DB	4	4	12	36	7740.00

II. 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	Legrand (MDS) /HAGER(L&T) Rate in Rupees
4 Ways 3 Phase DB	4	4	12	12	6220.00
6 Ways 3 Phase DB	4	4	12	18	7030.00
8 Ways 3 Phase DB	4	4	12	24	7850.00
12 Ways 3 Phase DB	4	4	12	36	9990.00

XIV 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

I MODULE TYPE WITH IP 20 PROTECTION

Description	No. of ways incomer MCB/ Isolator	No. of ways incomer ELCB/RCD	No. of outgoing ways	Legrand (MDS) / HAGER (L & T) Rate in Rs.	All other makes with ISI (Std HPL / Havell's / equivalent) Rate in Rs.
4 Ways 3 Phase DB	2	2	4	719.00	390.00
4 Ways 3 Phase DB	2	2	8	897.00	494.00
4 Ways 3 Phase DB	2	2	12	1065.00	677.00

II. SPMCB 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 outgoing ways	Legrand (MDS) / HAGER (L & T)		All other makes with ISI (Std /HPL / Havell's / equivalent) (Rate in Rupees)
				With metal Door (Rate in Rupees)	With ACRYLIC door (Rates in Rupees)	
4 Ways 3 Phase DB	2	2	4	1045.00	1230.00	683.00
4 Ways 3 Phase DB	2	2	8	1305.00	1450.00	933.00
4 Ways 3 Phase DB	2	2	12	1570.00	1760.00	1200.00

III. 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	Legrand (MDS) / HAGER (L & T) Rate in Rs.
4 Ways 3 Phase DB	2	2	4	3140.00
4 Ways 3 Phase DB	2	2	8	3650.00
4 Ways 3 Phase DB	2	2	12	4240.00

RATES FOR WORKS

INFILTRATION WORKS

Schedule Item No.	Description	Unit	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	47.00
	Second depth of 2 metres	One Cubic metre	74.00
	Third depth of 2 metres	One Cubic metre	107.00
	Fourth depth of 2 metres	One Cubic metre	149.00
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	377.00
	Second depth of 2 metres	One metre	694.00
	Third depth of 2 metres	One metre	1459.00
	Fourth depth of 2 metres	One metre	2912.00
	Fifth depth of 2 metres	One metre	5734.00
	Sixth depth of 2 metres	One metre	11477.00
b.	For 1.2 metre dia Ring well (internal)		
	First depth of 2 metres	One metre	419.00
	Second depth of 2 metres	One metre	837.00
	Third depth of 2 metres	One metre	1668.00
	Fourth depth of 2 metres	One metre	3124.00
	Fifth depth of 2 metres	One metre	5798.00
	Sixth depth of 2 metres	One metre	11582.00
c.	For 1.50 metre dia Ring well (internal)		
	First depth of 2 metres	One metre	484.00
	Second depth of 2 metres	One metre	960.00
	Third depth of 2 metres	One metre	1900.00
	Fourth depth of 2 metres	One metre	3785.00
	Fifth depth of 2 metres	One metre	7559.00
	Sixth depth of 2 metres	One metre	15052.00

Schedule Item No.	Description	Unit	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	550.00	794.00
	Second depth of 2 metres	One metre	926.00	1454.00
	Third depth of 2 metres	One metre	1850.00	2905.00
	Fourth depth of 2 metres	One metre	3652.00	5800.00
	Fifth depth of 2 metres	One metre	6952.00	10892.00
	Sixth depth of 2 metres	One metre	13053.00	20386.00
	Seventh depth of 2 metres	One metre	19152.00	27711.00
	Eighth depth of 2 metres	One metre	25254.00	35036.00
	Ninth depth of 2 metres	One metre	31350.00	42358.00
	Tenth depth of 2 metres	One metre	37451.00	49683.00
b.	For 1.25 metre dia (internal)			
	First depth of 2 metres	One metre	718.00	1089.00
	Second depth of 2 metres	One metre	1439.00	2180.00
	Third depth of 2 metres	One metre	2870.00	4409.00
	Fourth depth of 2 metres	One metre	5146.00	7924.00
	Fifth depth of 2 metres	One metre	9096.00	14058.00
	Sixth depth of 2 metres	One metre	16424.00	25449.00
	Seventh depth of 2 metres	One metre	23747.00	36845.00
	Eighth depth of 2 metres	One metre	31073.00	48237.00
	Ninth depth of 2 metres	One metre	38403.00	59632.00
	Tenth depth of 2 metres	One metre	45727.00	71027.00
c.	For 2.0 metre dia (internal)			
	First depth of 2 metres	One metre	1117.00	1795.00
	Second depth of 2 metres	One metre	2226.00	3590.00
	Third depth of 2 metres	One metre	4442.00	7168.00
	Fourth depth of 2 metres	One metre	7101.00	13137.00
	Fifth depth of 2 metres	One metre	13880.00	23889.00
	Sixth depth of 2 metres	One metre	27754.00	44626.00
	Seventh depth of 2 metres	One metre	41625.00	65383.00
	Eighth depth of 2 metres	One metre	55498.00	86131.00

Schedule Item No.	Description	Unit	Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
	Nineth depth of 2 metres	One metre	69372.00	106878.00
	Tenth depth of 2 metres	One metre	83243.00	127624.00
d.	For 2.5 metre dia (internal)			
	First depth of 2 metres	One metre	1408.00	2342.00
	Second depth of 2 metres	One metre	2928.00	4605.00
	Third depth of 2 metres	One metre	5852.00	9172.00
	Fourth depth of 2 metres	One metre	10899.00	17045.00
	Fifth depth of 2 metres	One metre	20291.00	31521.00
	Sixth depth of 2 metres	One metre	39186.00	59028.00
	Seventh depth of 2 metres	One metre	58077.00	86530.00
	Eighth depth of 2 metres	One metre	76970.00	114035.00
	Nineth depth of 2 metres	One metre	95861.00	141538.00
	Tenth depth of 2 metres	One metre	114758.00	169041.00
e.	For 3.00 metre dia (internal)			
	First depth of 2 metres	One metre	1819.00	3169.00
	Second depth of 2 metres	One metre	3606.00	6161.00
	Third depth of 2 metres	One metre	7203.00	12327.00
	Fourth depth of 2 metres	One metre	13902.00	23150.00
	Fifth depth of 2 metres	One metre	25982.00	43230.00
	Sixth depth of 2 metres	One metre	49247.00	75375.00
	Seventh depth of 2 metres	One metre	72510.00	107477.00
	Eighth depth of 2 metres	One metre	95773.00	139602.00
	Nineth depth of 2 metres	One metre	119035.00	171730.00
	Tenth depth of 2 metres	One metre	142300.00	203859.00
f.	For 3.50 metre dia (internal)			
	First depth of 2 metres	One metre	2314.00	3713.00
	Second depth of 2 metres	One metre	4500.00	7286.00
	Third depth of 2 metres	One metre	8980.00	14539.00
	Fourth depth of 2 metres	One metre	16815.00	27250.00
	Fifth depth of 2 metres	One metre	31414.00	51812.00
	Sixth depth of 2 metres	One metre	59520.00	96179.00
	Seventh depth of 2 metres	One metre	87624.00	140547.00
	Eighth depth of 2 metres	One metre	115733.00	184910.00
	Nineth depth of 2 metres	One metre	143838.00	229277.00
	Tenth depth of 2 metres	One metre	171945.00	273645.00

Schedule Item No.	Description	Unit	Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
g.	For 4.00 metre dia (internal)			
	First depth of 2 metres	One metre	2646.00	4454.00
	Second depth of 2 metres	One metre	5094.00	8527.00
	Third depth of 2 metres	One metre	10151.00	17038.00
	Fourth depth of 2 metres	One metre	19065.00	31922.00
	Fifth depth of 2 metres	One metre	35657.00	59530.00
	Sixth depth of 2 metres	One metre	67603.00	112680.00
	Seventh depth of 2 metres	One metre	99549.00	165828.00
	Eighth depth of 2 metres	One metre	131493.00	218981.00
	Nineth depth of 2 metres	One metre	163460.00	271765.00
	Tenth depth of 2 metres	One metre	195388.00	321173.00
h.	For 4.50 metre dia (internal)			
	First depth of 2 metres	One metre	3159.00	5327.00
	Second depth of 2 metres	One metre	6194.00	10595.00
	Third depth of 2 metres	One metre	12434.00	21145.00
	Fourth depth of 2 metres	One metre	21625.00	39653.00
	Fifth depth of 2 metres	One metre	37484.00	74149.00
	Sixth depth of 2 metres	One metre	69715.00	123552.00
	Seventh depth of 2 metres	One metre	102055.00	172956.00
	Eighth depth of 2 metres	One metre	134345.00	222360.00
	Nineth depth of 2 metres	One metre	166629.00	272132.00
	Tenth depth of 2 metres	One metre	198915.00	325282.00
i.	For 5.00 metre dia (internal)			
	First depth of 2 metres	One metre	3918.00	6608.00
	Second depth of 2 metres	One metre	7645.00	12262.00
	Third depth of 2 metres	One metre	15208.00	24485.00
	Fourth depth of 2 metres	One metre	28536.00	47949.00
	Fifth depth of 2 metres	One metre	51526.00	89601.00
	Sixth depth of 2 metres	One metre	100758.00	169774.00
	Seventh depth of 2 metres	One metre	149988.00	249948.00
	Eighth depth of 2 metres	One metre	199217.00	330121.00
	Nineth depth of 2 metres	One metre	248450.00	410296.00
	Tenth depth of 2 metres	One metre	297683.00	490470.00

Schedule Item No.	Description	Unit	Rate in Rupees	
			Ordinary soil (or) loose soil sandy soil	Silt (or) clay pocket
j.	For 6.00 metre dia (internal)			
	First depth of 2 metres	One metre	5631.00	9209.00
	Second depth of 2 metres	One metre	10916.00	17809.00
	Third depth of 2 metres	One metre	20736.00	35599.00
	Fourth depth of 2 metres	One metre	40864.00	66701.00
	Fifth depth of 2 metres	One metre	76380.00	124417.00
	Sixth depth of 2 metres	One metre	144784.00	235406.00
	Seventh depth of 2 metres	One metre	213198.00	346393.00
	Eighth depth of 2 metres	One metre	281603.00	457381.00
	Nineth depth of 2 metres	One metre	350012.00	568367.00
	Tenth depth of 2 metres	One metre	418418.00	679355.00
	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	

INFILTRATION WORKS

Schedule Item No.	Description	Unit	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	54.00
	Second depth of 2 m	One cubic metre	77.00
	Third depth of 2 m	One cubic metre	112.00
	Fourth depth of 2 m	One cubic metre	150.00
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	1003.00
	Second depth of 2 m	One cubic metre	1418.00
	Third depth of 2 m	One cubic metre	2127.00
	Fourth depth of 2 m	One cubic metre	3086.00
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	1668.00
	Second depth of 2 m	One cubic metre	2318.00
	Third depth of 2 m	One cubic metre	3620.00
	Fourth depth of 2 m	One cubic metre	5418.00
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	1166.00
	Second depth of 2 m	One cubic metre	1554.00
	Third depth of 2 m	One cubic metre	2420.00
	Fourth depth of 2 m	One cubic metre	4184.00

Schedule Item No.	Description	Unit	Rate in Rupees
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	160.00
ii	225 mm dia stoneware pipes	One metre	197.00
iii	300 mm dia stoneware pipes	One metre	230.00
iv	350 mm dia stoneware pipes	One metre	267.00
v	375 mm dia stoneware pipes	One metre	331.00
vi	450 mm dia stoneware pipes	One metre	341.00
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	119.00
	315 mm dia (OD) PVC pipes	One metre	182.00
c	Refilling gallery trench and filter basins with clean excavated sand free from silt and clay	One cubic metre	12.70

Schedule Item No.	Description	Unit	Rate in Rupees
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	166.00
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	822.00
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	312.00
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	212.00
e.	Cost of hard granite metal of size (B.S.S.) 6 mm to 12 mm filter media (machine crushed)	One cubic metre	1117.00
	(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.		

Schedule Item No.	Description	Unit	Rate in Rupees
	(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 Board are to be obtained in specific cases for increased rate of labour required.		
7a	Lowering of C.I/ 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 C.I/ D.I Pipes and Specials	One metre	8.70
	100 mm dia C.I/ D.I Pipes and Specials	One metre	10.10
	125 mm dia C.I/ D.I Pipes and Specials	One metre	13.10
	150 mm dia C.I/ D.I Pipes and Specials	One metre	17.50
	200 mm dia C.I/ D.I Pipes and Specials	One metre	21.90
	250 mm dia C.I/ D.I Pipes and Specials	One metre	27.60
	300 mm dia C.I/ D.I Pipes and Specials	One metre	30.60
	350 mm dia C.I/ D.I pipes and specials	One metre	38.00
	400 mm dia C.I/ D.I pipes and specials	One metre	43.80
	450 mm dia C.I/ D.I pipes and specials	One metre	51.00
	500 mm dia C.I/ D.I pipes and specials	One metre	55.40
	600 mm dia C.I/ D.I pipes and specials	One metre	68.50
	700 mm dia C.I/ D.I pipes and specials	One metre	86.10
	750 mm dia C.I/ D.I pipes and specials	One metre	96.40
	800 mm dia C.I/ D.I pipes and specials	One metre	112.40
	900 mm dia C.I/ D.I pipes and specials	One metre	129.90
	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.		

Schedule Item No.	Description	Unit	Rate in Rupees
b	Lowering GI pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers		
	15mm to 40mm dia	One metre	8.70
	50mm to 65mm dia	One metre	8.70
	80mm to 100mm dia	One metre	11.70
	125mm to 150mm dia	One metre	11.70
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	8.70
	100mm dia C.I. Pipes and specials	One metre	10.10
	125 mm dia C.I. Pipes and specials	One metre	11.70
	150 mm dia C.I. Pipes and specials	One metre	16.00
	200 mm dia C.I. Pipes and specials	One metre	17.50
	250 mm dia C.I. Pipes and specials	One metre	27.60
	300 mm dia C.I. Pipes and specials	One metre	29.30
	350 mm dia C.I. Pipes and specials	One metre	38.00
	400 mm dia C.I. Pipes and specials	One metre	40.90
	450 mm dia C.I. Pipes and specials	One metre	48.10
	500 mm dia C.I.pipes and specials	One metre	52.60
	600 mm dia C.I.pipes and specials	One metre	64.20
	700 mm dia C.I.pipes and specials	One metre	74.40
	800 mm dia C.I.pipes and specials	One metre	81.80
	825 mm dia C.I.pipes and specials	One metre	93.50
	900 mm dia C.I.pipes and specials	One metre	103.60
	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	27.60
	400 mm Dia	One metre	35.00
	450 mm Dia	One metre	38.00
	500 mm Dia	One metre	40.90
	600 mm Dia	One metre	51.00

Schedule Item No.	Description	Unit	Rate in Rupees
	700 mm Dia	One metre	65.60
	900 mm Dia	One metre	93.50
	1000 mm Dia	One metre	116.90
	1050 mm Dia	One metre	122.70
	1100 mm Dia	One metre	128.50
	1200 mm Dia	One metre	140.30
	1400 mm Dia	One metre	205.90
	1600 mm Dia	One metre	267.20
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	20%	
8a	Joining 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	295.10
	100 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	359.40
	125 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	473.30
	150 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	555.20
	200 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	752.40
	250 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1070.90
	300 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1161.50
	350 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1434.70
	400 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	1748.80
	450 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	2615.30
	500 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	2936.70
	600 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	3508.00
	700 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	3960.90
	750 mm dia C.I/ D.I - S/S pipes and specials	Each Joint	4749.90

Schedule Item No.	Description	Unit	Rate in Rupees
	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		
	80 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	30.60
	100 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	37.90
	125 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	37.90
	150 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	39.30
	200 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	70.10
	250 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	96.40
	300 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	115.30
	350 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	125.60
	400 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	163.60
	450 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	230.80
	500 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	284.80
	600 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	387.10
	700 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	518.60
	750 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	647.10
	800 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	835.70
	900 mm dia C.I/ D.I-S/S pipes and specials	Each Joint	1097.10

Schedule Item No.	Description	Unit	Rate in Rupees
	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 the required specifications with M.S. bolts and nuts, complete. (including cost of jointing materials)		
	For depth upto 2m		
	For works above water level		
	80 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	93.40
	100 mm dia C.I./D.I. Double flanged pipes and specials	Each Joint	162.00
	125 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	170.80
	150 mm dia C.I./D.I. Double flanged pipes and specials	Each Joint	280.40
	200 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	308.20
	250 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	441.20
	300 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	486.40
	350 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	634.10
	400 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	952.50
	450 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1057.80
	500 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1298.80
	600 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1776.60
	700 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1868.60
	750 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1913.90
	800 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	1962.10
	900 mm dia C.I/ D.I Double flanged pipes and specials	Each Joint	2229.50

Schedule Item No.	Description	Unit	Rate in Rupees
	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	197.10
	100 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	293.60
	125 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	327.30
	150 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	467.50
	200 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	539.00
	250 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	736.30
	300 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	812.30
	350 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1006.60
	400 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1383.50
	450 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1539.90
	500 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	1808.70
	600 mm dia C.I/ D.I Double flanged Pipes and specials	Each Joint	2546.50
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	

Schedule Item No.	Description	Unit	Rate in Rupees
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	71.50
	100mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	74.40
	125mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	96.40
	150mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	108.10
	200mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	170.80
	250mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	198.70
	300mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	242.40
	350mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	281.90
	400mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	333.10
	450mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	397.30
	500mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	463.00
	600mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	568.30
	700mm dia C.I/ D.I-S/S Pipes and Specials	Each Joint	620.80
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	10%	
	4m to 6m	15%	

Schedule Item No.	Description	Unit	Rate in Rupees
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	26.20
	200mm dia R.C.C. Pipes and Specials	One metre	27.60
	250mm dia R.C.C. Pipes and Specials	One metre	35.00
	300mm dia R.C.C. Pipes and Specials	One metre	40.90
	350mm dia R.C.C. Pipes and Specials	One metre	51.00
	400mm dia R.C.C. Pipes and Specials	One metre	55.40
	450mm dia R.C.C. Pipes and Specials	One metre	64.20
	500mm dia R.C.C. Pipes and Specials	One metre	74.40
	600mm dia R.C.C. Pipes and Specials	One metre	86.10
	700mm dia R.C.C. Pipes and Specials	One metre	96.40
	750mm dia R.C.C. Pipes and Specials	One metre	100.70
	800mm dia R.C.C. Pipes and Specials	One metre	122.70
	900mm dia R.C.C. Pipes and Specials	One metre	144.50
	1000mm dia R.C.C. Pipes and Specials	One metre	166.50
	1100mm dia R.C.C. Pipes and Specials	One metre	194.20
	1200mm dia R.C.C. Pipes and Specials	One metre	216.20
	1300mm dia R.C.C. Pipes and Specials	One metre	238.00
	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 only		
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	141.60
	200mm dia R.C.C. Pipes and Specials	Each Joint	173.70
	250mm dia R.C.C. Pipes and Specials	Each Joint	213.20
	300mm dia R.C.C. Pipes and Specials	Each Joint	239.60
	350mm dia R.C.C. Pipes and Specials	Each Joint	257.10
	400mm dia R.C.C. Pipes and Specials	Each Joint	277.50
	450mm dia R.C.C. Pipes and Specials	Each Joint	325.70
	500mm dia R.C.C. Pipes and Specials	Each Joint	359.40
	600mm dia R.C.C. Pipes and Specials	Each Joint	428.00
	700mm dia R.C.C. Pipes and Specials	Each Joint	498.10
	750mm dia R.C.C. Pipes and Specials	Each Joint	526.00
	800mm dia R.C.C. Pipes and Specials	Each Joint	546.40
	900mm dia R.C.C. Pipes and Specials	Each Joint	620.80

Schedule Item No.	Description	Unit	Rate in Rupees
	1000mm dia R.C.C. Pipes and Specials	Each Joint	635.50
	1100mm dia R.C.C. Pipes and Specials	Each Joint	695.40
	1200mm dia R.C.C. Pipes and Specials	Each Joint	771.40
	1300mm dia R.C.C. Pipes and Specials	Each Joint	853.20
	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	150.40
	200mm dia R.C.C. Pipes	Each steel collar	188.40
	250mm dia R.C.C. Pipes	Each steel collar	223.40
	300mm dia R.C.C. Pipes	Each steel collar	258.50
	350mm dia R.C.C. Pipes	Each steel collar	293.60
	400mm dia R.C.C. Pipes	Each steel collar	305.30
	450mm dia R.C.C. Pipes	Each steel collar	382.70
	500mm dia R.C.C. Pipes	Each steel collar	428.00
	600mm dia R.C.C. Pipes	Each steel collar	511.30
	700mm dia R.C.C. Pipes	Each steel collar	610.70
	800mm dia R.C.C. Pipes	Each steel collar	702.80
	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	13.00
	100mm dia AC/ GRP Pipes	One metre	17.50
	125mm dia AC/ GRP Pipes	One metre	26.20
	150mm dia AC/ GRP Pipes	One metre	29.20

Schedule Item No.	Description	Unit	Rate in Rupees
	200mm dia AC/ GRP Pipes	One metre	39.30
	250mm dia AC/ GRP Pipes	One metre	48.10
	300mm dia AC/ GRP Pipes	One metre	61.30
	350mm dia AC/ GRP Pipes	One metre	68.50
	400mm dia AC/ GRP Pipes	One metre	78.90
	450mm dia AC/ GRP Pipes	One metre	92.00
	500mm dia AC/ GRP Pipes	One metre	109.50
	600mm dia AC/ GRP Pipes	One metre	131.50
	700mm dia AC/ GRP Pipes	One metre	162.10
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11b	Lowering PVC rigid/ HDPE 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/ HDPE pipe	One metre	5.10
	50mm to 75mm dia (OD) PVC/ HDPE pipe	One metre	8.70
	90mm to 110mm dia (OD) PVC/ HDPE pipe	One metre	8.70
	125mm to 160mm dia (OD) PVC/ HDPE pipe	One metre	12.20
	180mm to 250mm dia (OD) PVC/ HDPE pipe	One metre	15.70
	Over 250mm to 315mm dia (OD) PVC/ HDPE pipe	One metre	22.80
	NOTE: For depth between	Percentage excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
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	68.50
	400mm diameter	One metre	80.20
	450mm diameter	One metre	93.40
	500mm diameter	One metre	109.50
	600mm diameter	One metre	132.80
	700mm diameter	One metre	149.00
	800mm diameter	One metre	162.10

Schedule Item No.	Description	Unit	Rate in Rupees
	900mm diameter	One metre	176.70
	1000mm diameter	One metre	192.80
	1100mm diameter	One metre	207.50
	1200mm diameter	One metre	239.60
	1300mm diameter	One metre	265.90
	1400mm diameter	One metre	305.30
	1500mm diameter	One metre	338.90
	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	729.00
	400mm diameter	Each collar	853.20
	450mm diameter	Each collar	977.40
	500mm diameter	Each collar	1100.00
	600mm diameter	Each collar	1341.20
	700mm diameter	Each collar	1706.50
	800mm diameter	Each collar	1833.50
	900mm diameter	Each collar	2077.60
	1000mm diameter	Each collar	2440.00
	1100mm diameter	Each collar	2686.80
	1200mm diameter	Each collar	3053.60
	1300mm diameter	Each collar	3424.70
	NOTE: For depth between	% excess allowed over basic rate	
	2m to 4m	15%	
	4m to 6m	30%	
11e	Testing of M.S. / C.I. / D.I / P.V.C. / H.D.P.E pipes with hydraulic testing equipment by filling with water (including cost of water @ Rs. 60/KL) 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		

Schedule Item No.	Description	Unit	Rate in Rupees
	incidental and operational charges etc., complete for the following diameters of pipes.		
	Up to 100mm	One metre	37.40
	125mm	One metre	44.00
	150mm	One metre	49.50
	200mm	One metre	60.50
	250mm	One metre	75.90
	300mm	One metre	92.40
	350mm	One metre	108.90
	400mm	One metre	126.50
	450mm	One metre	145.20
	500mm	One metre	177.10
	600mm	One metre	211.20
	700mm	One metre	268.40
	750mm	One metre	313.50
	900mm	One metre	361.90
	1050mm	One metre	466.40
	1200mm	One metre	586.30
12a	Cutting C.I. Pipes true to axis and filing smoothly and finishing the ends complete		
	80mm dia CI pipes	Each cutting	26.20
	100mm dia CI pipes	Each cutting	29.20
	125mm dia CI pipes	Each cutting	36.40
	150mm dia CI pipes	Each cutting	40.90
	175mm dia CI pipes	Each cutting	48.10
	200mm dia CI pipes	Each cutting	65.60
	250mm dia CI pipes	Each cutting	83.20
	300mm dia CI pipes	Each cutting	93.40
	350mm dia CI pipes	Each cutting	118.30
	375mm dia CI pipes	Each cutting	146.10
	400mm dia CI pipes	Each cutting	153.30
	450mm dia CI pipes	Each cutting	164.90
	500mm dia CI pipes	Each cutting	182.50
	525mm dia CI pipes	Each cutting	220.50
	600mm dia CI pipes	Each cutting	225.00
	675mm dia CI pipes	Each cutting	268.80
	700mm dia CI pipes	Each cutting	283.40
	750mm dia CI pipes	Each cutting	292.20
	800mm dia CI pipes	Each cutting	306.80
	825mm dia CI pipes	Each cutting	334.50
	850mm dia CI pipes	Each cutting	350.60
	900mm dia CI pipes	Each cutting	359.40

Schedule Item No.	Description	Unit	Rate in Rupees
12b	Cutting A.C. Pipes true to axis and finishing the ends complete		
	80mm dia AC pipes	Each cutting	10.10
	100mm dia AC pipes	Each cutting	11.70
	125mm dia AC pipes	Each cutting	13.00
	150mm dia AC pipes	Each cutting	16.00
	200mm dia AC pipes	Each cutting	21.80
	250mm dia AC pipes	Each cutting	35.00
	300mm dia AC pipes	Each cutting	36.40
	350mm dia AC pipes	Each cutting	43.80
	400mm dia AC pipes	Each cutting	53.90
	450mm dia AC pipes	Each cutting	61.30
	500mm dia AC pipes	Each cutting	70.10
	600mm dia AC pipes	Each cutting	80.20
	700mm dia AC pipes	Each cutting	89.00
12c	Cutting P.V.C. rigid pipes and specials true to axis and finishing the ends complete		
	Upto 75mm dia (OD) PVC pipe	Each cutting	3.40
	90mm dia PVC pipes	Each cutting	5.10
	110mm dia PVC pipes	Each cutting	5.10
	125mm dia PVC pipes	Each cutting	5.10
	140mm dia PVC pipes	Each cutting	5.10
	160mm dia PVC pipes	Each cutting	8.70
	180mm dia PVC pipes	Each cutting	10.40
	200mm dia PVC pipes	Each cutting	10.40
	250mm dia PVC pipes	Each cutting	12.20
	315mm dia PVC pipes	Each cutting	13.90
12d.	Cutting and Threading of GI pipes		
a.i	15mm dia GI pipe, Cutting	Each	4.35
ii.	15mm dia GI pipe, Threading	Each	6.10
b.i	20mm dia GI pipe, Cutting	Each	4.35
ii.	20mm dia GI pipe, Threading	Each	6.30
c.i	25mm dia GI pipe, Cutting	Each	5.25
ii.	25mm dia GI pipe, Threading	Each	12.75
d.i	32mm dia GI pipe, Cutting	Each	6.30
ii	32mm dia GI pipe, Threading	Each	17.20
e.i	40mm dia GI pipe, Cutting	Each	8.40
ii	40mm dia GI pipe, Threading	Each	19.35
f.i	50mm dia GI pipe, Cutting	Each	10.70
ii.	50mm dia GI pipe, Threading	Each	21.50
g.i	65mm dia GI pipe, Cutting	Each	11.65
ii	65mm dia GI pipe, Threading	Each	25.90
h.i	80mm dia GI pipe, Cutting	Each	15.10

Schedule Item No.	Description	Unit	Rate in Rupees
ii.	80mm dia GI pipe, Threading	Each	32.60
i.i	100mm dia GI pipe, Cutting	Each	21.50
ii.	100mm dia GI pipe, Threading	Each	43.15
j.i.	125mm dia GI pipe, Cutting	Each	23.20
j.ii.	125mm dia GI pipe, Threading	Each	46.60
13	Cutting R.C.C. Pipes true to axis and finishing the ends complete		
	150mm dia R.C.C. Pipes	Each cutting	36.40
	200mm dia R.C.C. Pipes	Each cutting	40.90
	250mm dia R.C.C. Pipes	Each cutting	52.60
	300mm dia R.C.C. Pipes	Each cutting	68.50
	350mm dia R.C.C. Pipes	Each cutting	71.50
	400mm dia R.C.C. Pipes	Each cutting	91.90
	450mm dia R.C.C. Pipes	Each cutting	100.70
	500mm dia R.C.C. Pipes	Each cutting	112.40
	600mm dia R.C.C. Pipes	Each cutting	125.60
	650mm dia R.C.C. Pipes	Each cutting	131.50
	700mm dia R.C.C. Pipes	Each cutting	144.50
	750mm dia R.C.C. Pipes	Each cutting	149.00
	800mm dia R.C.C. Pipes	Each cutting	163.60
	900mm dia R.C.C. Pipes	Each cutting	173.70
	1000mm dia R.C.C. Pipes	Each cutting	187.00
	1100mm dia R.C.C. Pipes	Each cutting	200.00
	1200mm dia R.C.C. Pipes	Each cutting	214.70
	1300mm dia R.C.C. Pipes	Each cutting	223.40
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	676.50
	100mm dia C.I. Pipes	Each	848.80
	125mm dia C.I. Pipes	Each	1108.80
	150mm dia C.I. Pipes	Each	1398.10
	200mm dia C.I. Pipes	Each	1950.40
	250mm dia C.I. Pipes	Each	2681.00
	300mm dia C.I. Pipes	Each	3411.50

Schedule Item No.	Description	Unit	Rate in Rupees
	350mm dia C.I. Pipes	Each	3863.00
	400mm dia C.I. Pipes	Each	4935.40
	450mm dia C.I. Pipes	Each	5376.70
	500mm dia C.I. Pipes	Each	6032.70
	600mm dia C.I. Pipes	Each	7381.30
	700mm dia C.I. Pipes	Each	8057.70
	750mm dia C.I. Pipes	Each	9247.00
	800mm dia C.I. Pipes	Each	10443.70
	825mm dia C.I. Pipes	Each	12385.40
	900mm dia C.I. Pipes	Each	15110.40
	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	391.50
	100mm dia AC. Pipes	Each	463.00
	125mm dia AC. Pipes	Each	582.80
	150mm dia AC. Pipes	Each	746.50
	200mm dia AC. Pipes	Each	1047.50
	250mm dia AC. Pipes	Each	1339.70
	300mm dia AC. Pipes	Each	1668.50
	350mm dia AC. Pipes	Each	1832.20
	375mm dia AC. Pipes	Each	2061.40
	400mm dia AC. Pipes	Each	2182.80
	450mm dia AC. Pipes	Each	2229.50
	500mm dia AC. Pipes	Each	2448.70
	600mm dia AC. Pipes	Each	2850.40
	700mm dia AC. Pipes	Each	3510.90
	NOTE: For depth between % excess allowed over basic rate		
	2m to 4m	15%	
	4m to 6m	30%	

Schedule Item No.	Description	Unit	Rate in Rupees
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	200.00
	75mm dia (OD) PVC Pipes	Each	251.20
	90mm dia (OD) PVC Pipes	Each	334.50
	110mm dia (OD) PVC Pipes	Each	406.10
	125mm dia (OD) PVC Pipes	Each	482.10
	140mm dia to 160mm dia (OD) PVC Pipes	Each	594.70
	180mm dia to 200mm dia (OD) PVC Pipes	Each	911.10
	250mm dia to 280mm dia (OD) PVC Pipes	Each	1110.40
	315mm dia (OD) PVC Pipes	Each	1237.40
	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	1087.00
	200mm dia RCC Pipes	Each	1528.20
	250mm dia RCC Pipes	Each	1899.40
	300mm dia RCC Pipes	Each	2255.80
	350mm dia RCC Pipes	Each	2670.80
	375mm dia RCC Pipes	Each	3173.40
	400mm dia RCC Pipes	Each	3417.30
	450mm dia RCC Pipes	Each	3820.60
	500mm dia RCC Pipes	Each	4251.70
	525mm dia RCC Pipes	Each	4839.00

Schedule Item No.	Description	Unit	Rate in Rupees
	600mm dia RCC Pipes	Each	4970.50
	650mm dia RCC Pipes	Each	5546.20
	700mm dia RCC Pipes	Each	5657.20
	800mm dia RCC Pipes	Each	6243.10
	900mm dia RCC Pipes	Each	6896.20
	1000mm dia RCC Pipes	Each	7539.10
	1100mm dia RCC Pipes	Each	8214.10
	1200mm dia RCC Pipes	Each	8865.80
	1300mm dia RCC Pipes	Each	9301.20
	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	7151.90
	Upto 1000mm dia PSC pipes	Each	5717.00
	Upto 800mm dia PSC pipes	Each	3334.10
	Upto 700mm dia PSC pipes	Each	3291.60
	Upto 600mm dia PSC pipes	Each	3252.30
	Upto 500mm dia PSC pipes	Each	3151.40
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		

Schedule Item No.	Description	Unit	Rate in Rupees
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	2382.90
	For 600mm dia AC pipe	Each	2619.50
	For 700mm dia AC pipe	Each	2979.00
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	77.30
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	146.10
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	12.80

Schedule Item No.	Description	Unit	Rate in Rupees
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	14.40
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	17.40
	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		

**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.) (6400 - 20 + 100.80 = 6480.80)	Quantity of sand in cubic metres for 50 mortar joints	Cost of sand required for 50 mortar joints at Rs. Per cum (176.40+161.30=337.70)	Quantity of spun of tarred yarn in kg	Cost of yarn at Rs. 12.60/ kg	Total cost of materials (Total of columns 5,7,& 9)	Labour for Laying and jointing								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 stoneware pipes complete for 1 metre (Rs. P)				
										Mason I Class		Fitter II Class		Mazdoor I Category I		Mazdoor II Category II							11	12	13	14
1	2	3	4	5	6	7	8	9	10	Nos.	Amount	Nos.	Amount	Nos.	Amount	Nos.	Amount	Nos.	Amount	15	16	17	18	19	20	
100	60	435	45	291.64	0.04	13.51	3.63	45.74	350.89	2	902	1	372	5	1410	2	510	216.33	208.12	3194	3544.89	216.33	208.12	3969.34	132.31	
150	60	750	68	440.69	0.07	23.64	5.45	68.67	533.00	3	1353	2	744	6	1692	3	765	372.98	281.93	4554	5087.00	372.98	281.93	5741.91	191.40	
200	60	1043	98	635.12	0.08	27.02	6.90	86.94	749.08	4	1804	2	744	6	1692	3	765	518.68	284.35	5005	5754.08	518.68	284.35	6557.11	218.57	
225	60	1185	104	674.00	0.10	33.77	8.17	102.94	810.71	5	2255	3	1116	7	1974	5	1275	703.30	329.12	6620	7430.71	703.30	329.12	8463.13	282.10	
250	60	1375	115	745.29	0.11	37.15	8.35	105.21	887.65	5	2255	3	1116	7	1974	5	1275	816.06	340.01	6620	7507.65	816.06	340.01	8663.72	288.79	
300	60	2180	150	972.12	0.15	50.66	11.34	142.88	1165.66	6	2706	3	1116	12	3384	6	1530	1293.83	433.18	8736	9901.66	1293.83	433.18	11628.67	387.62	
375	60	2425	318	2060.89	0.28	94.56	18.14	228.56	2384.01	7	3157	3	1116	14	3948	7	1785	1439.24	486.42	10006	12390.01	1439.24	486.42	14315.67	477.19	
450	60	-	454	2942.28	0.34	114.82	27.22	342.97	3400.07	8	3608	3	1116	16	4512	8	2040	-	-	11276	14676.07	-	-	-	-	-

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

**RATES FOR CONVEYANCE OF
MATERIALS**

CONVEYANCE

1) Rates for Conveyance of C.I./G.I./D.I. 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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
Up to 125 mm	218.55	143.60	143.60	139.55	645.30
Over 125 mm up to 200 mm	299.40	192.00	192.00	149.05	832.45
Over 200 mm up to 350 mm	367.40	254.00	254.00	151.75	1027.15
Over 350 mm up to 500 mm	459.60	300.85	300.85	170.75	1232.05
Over 500 mm up to 700 mm	554.85	347.75	347.75	188.30	1438.65
Above 700mm	624.40	414.25	414.25	203.25	1656.15

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	10.80	12.15
Above 25 KM to 50 KM	7.85	9.20
Above 50 KM to 80 KM	6.85	8.20
Above 80 KM to 125 KM	5.15	6.80
Above 125 KM to 200 KM	5.15	5.15
Above 200 KM	3.40	3.40

- 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.27.20 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/ 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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
Up to 350 mm	825.50	571.50	571.50	346.90	2315.40
Over 350 mm up to 500 mm	1037.20	677.35	677.35	384.85	2776.75
Over 500 mm up to 700 mm	1251.85	777.10	777.10	425.50	3231.55
Above 700mm	1406.10	937.40	937.40	460.70	3741.60

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	24.35	27.05
Above 25 KM to 50 KM	17.45	21.00
Above 50 KM to 80 KM	15.05	18.90
Above 80 KM to 125 KM	11.85	15.10
Above 125 KM to 200 KM	11.85	11.85
Above 200 KM	8.40	8.40

- 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.27.20 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/ 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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
150 mm to 200 mm	169.30	130.00	130.00	159.85	589.15
Over 200 mm up to 350 mm	210.10	166.30	166.30	168.00	710.70
Over 350 mm up to 500 mm	263.05	205.60	205.60	174.80	849.05
Over 500 mm up to 700 mm	328.05	241.90	241.90	197.80	1009.65
Above 700mm	356.80	269.10	269.10	214.10	1109.10

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	9.25	12.40
Above 25 KM to 50 KM	6.25	9.40
Above 50 KM to 80 KM	5.20	8.55
Above 80 KM to 125 KM	5.20	6.80
Above 125 KM to 200 KM	5.20	5.20
Above 200 KM	3.45	3.45

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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
Up to 125 mm	111.85	99.75	99.75	243.90	555.25
Over 125 mm up to 200 mm	152.65	105.80	105.80	256.10	620.35
Over 200 mm up to 250 mm	173.85	130.00	130.00	291.35	725.20
For 300 mm	187.45	136.05	136.05	299.45	759.00
For 350 mm	187.45	151.20	151.20	303.55	793.40
For 400 mm	195.00	167.80	167.80	323.90	854.50
For 450 mm	216.15	187.45	187.45	342.85	933.90
For 500 mm	229.80	207.10	207.10	353.65	997.65
For 600 mm	252.45	237.35	237.35	379.40	1106.55
For 700 mm	263.05	243.40	243.40	380.80	1130.65

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	18.65	21.75
Above 25 KM to 50 KM	11.00	12.60
Above 50 KM to 80 KM	10.25	11.95
Above 80 KM to 125 KM	8.50	10.25
Above 125 KM to 200 KM	6.80	8.50
Above 200 KM	5.20	6.80

- 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.27.20 / 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/ 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
	2	3	4	5	6
1	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
50mm to 110mm OD	145.10	127.00	127.00	406.55	805.65
125mm to 200mm OD	187.45	128.45	128.45	409.20	853.55
Over 200mm to 315mm OD	190.50	169.30	169.30	440.40	969.50
Over 315mm OD	193.50	173.80	173.80	478.35	1019.45

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	35.10
Above 25 KM to 50 KM	23.45
Above 50 KM to 80 KM	20.55
Above 80 KM to 125 KM	15.35
Above 125 KM to 200 KM	11.90
Above 200 KM	8.50

- Note:**
- 1) For departmentally loading of PVC pipes and Specials (excluding transport charges) Up to 110 mm dia Rs.2.60 each length (6 m)
 - 2) For departmentally unloading of PVC pipes and Specials Up to 110 mm dia Rs.2.60 each length (6 m)
 - 3) a. For departmentally loading for remaining sizes of pipes Rs.144.95 per 1 MT
 b. For departmentally unloading for remaining sizes of pipes Rs.144.95 per 1 MT
 - 4) An extra rate of Rs.28.70/ 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/ 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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
100 to 200 mm	210.10	137.55	137.55	222.20	707.40
Over 200 to 350 mm	266.10	176.85	176.85	239.80	859.60
Over 350 mm to 500 mm	334.10	213.15	213.15	260.15	1020.55

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	15.50
Above 25 KM to 50 KM	9.40
Above 50 KM to 80 KM	10.30
Above 80 KM to 125 KM	6.80
Above 125 KM to 200 KM	5.20
Above 200 KM	3.45

- 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 M.T.
- 2) An extra rate of Rs.28.70 / 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/ 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. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
Pig lead / Yarn	72.50	61.95	61.95	81.30	277.70

For every 1 KM or part thereof	Rate per Tonne in Rupees
Beyond 8 KM to 25 KM	9.25
Above 25 KM to 50 KM	7.85
Above 50 KM to 80 KM	6.85
Above 80 KM to 125 KM	5.20
Above 125 KM to 200 KM	5.20
Above 200 KM	3.45

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

		Rate in Rupees					
Sl.No.	Distance in Kilometre	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	10.86	11.94	17.38	14.66	19.54	24.44
b	10 to 20 kms	9.30	10.24	14.88	12.56	16.74	20.92
c	20 to 40 kms	8.00	8.80	12.80	10.80	14.40	18.00
d	40 to 80 kms	6.90	7.60	12.00	9.30	12.40	15.52
e	Above 80 kms	6.30	6.94	10.08	8.50	11.34	14.18

- Note 1 The above rates do not include stacking charges [as per Circular Memo No.230Wks.IV(2)/62-3 dated 16.06.1962 of Chief Engineer (General)]
- 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.

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

		Rate in Rupees					
Sl.No.	Distance in Kilometre	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	5.43	5.97	8.69	7.33	9.77	12.22
b	10 to 20 kms	4.65	5.12	7.44	6.28	8.37	10.46
c	20 to 40 kms	4.00	4.40	6.40	5.40	7.20	9.00
d	40 to 80 kms	3.45	3.80	6.00	4.65	6.20	7.76
e	Above 80kms	3.15	3.47	5.04	4.25	5.67	7.09
3	Loading Charges	80.40	38.40	26.30	37.75	37.75	37.75
4	UnLoading Charges	80.40	38.40	26.30	37.75	37.75	37.75
5	Add above extra for inter state works	16.00	17.60	25.60	21.55	28.75	36.00

- Note 1 The above rates do not include stacking charges [as per Circular Memo No.230Wks.IV(2)/62-3 dated 16.6.1962 of Chief Engineer (General)]
- 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 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.

9) Rates for Conveyance of materials by Head load

Sl.No	Description of material	Unit	Rate 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	60.90	25.35	6.65
2	Lime, Lime Stone, Laterite, Brick Jelly, Earth, Sand, Gravel, Surki, Pond Ash (wet/dry), Crushed Stone Sand, Stone Dust	cu.m	32.40	25.35	4.95
3	a) Mangalore Tiles	1000 Nos.	66.00	33.20	8.40
	b) Machine Pressed Tiles	2000 Nos.	66.00	33.20	8.40
	c) Hydraulic Pressed Mosaic Flooring Tiles	1500 Nos.	66.00	33.20	8.40
	d) Terrace Bricks, Flat Tiles and Pan Tiles	2500 Nos.	66.00	33.20	8.40
	e) Bricks	1000 Nos.	66.00	33.20	8.40
4	Cement, A.C. Sheet, Bitumen, Asphalt, Tar	M.T	60.00	33.20	6.65
5	Steel	M.T	101.00	40.65	8.40

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) 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.

**RATES FOR MISCELLANEOUS
ITEMS**

MISCELLANEOUS

Schedule Item No.	Description	Unit	Rates 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	10.50
	40 mm to 50 mm dia	One metre	10.50
	65 mm to 150 mm dia	One metre	14.00
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	321.40
	6" Casing Pipes	Each	340.60
	8 " Casing Pipes	Each	374.40
2	Labour for cutting open road for laying water mains or sewer.		
a.	B.T. Roads (or) Maccadam road	One cu.m	429.00
b.	Concrete Roads	One cu.m	600.90
3	Labour for drilling, cutting, Threading and Fixing Ferrules in distribution pipes.		
	10 mm dia	Each	44.90
	15 mm dia	Each	56.20
	20mm dia	Each	70.60
	25 mm dia	Each	83.50
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	1575.70
5	Drilling holes in C.I./G.I. Dummy Flanges.		
	12 mm dia	Each	15.80
	15 mm dia	Each	31.70
	20 mm dia	Each	45.90
	22 mm dia	Each	61.80
	25 mm dia	Each	77.60

Schedule Item No.	Description	Unit	Rates in Rupees
6	Labour for refilling with sand the socket hollows of pipes including conveyance and stacking	One cu.m	15.80
	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 Pipes in vertical direction for service reservoir pipe connection		
	0 to 2 m	Qtl	133.30
	2 to 4 m	Qtl	200.80
	4 to 6 m	Qtl	314.90
	6 m to 8 m	Qtl	435.50
	8 m to 10 m	Qtl	556.00
	10 m to 12 m	Qtl	675.00
	12 m to 14 m	Qtl	798.70
	14 m to 16 m	Qtl	909.80
	16 m to 18 m	Qtl	1030.10
	18 m to 20 m	Qtl	1150.60
	20 m to 22 m	Qtl	1268.10
	22 m to 24 m	Qtl	1386.90
	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	502.90
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	591.40

Schedule Item No.	Description	Unit	Rates 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	374.40
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	438.70
	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	1882.00
ii.	For Plain area	One metre	1555.00
e	Drilling 4 1/2" dia meter bores by using In-Well rig in Hilly areas	One metre	792.00
f	Reaming from 6" Pilot bore to 12" size bore as directed by the TWAD Board Officers	One metre	206.80
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	198.00
9 a	Driving sheet piles for one metre length of gallery each side in sandy soil		
i.	First depth of 2 m	One metre	390.50
ii	Second depth of 2 m	One metre	596.20
iii	Third depth of 2 m	One metre	1119.80
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	60.80
ii	Second depth of 2m	One metre	93.00
iii	Third depth of 2 m	One metre	135.00
10	Drilling of borwell inside well 115mm dia.		
	a) Vertical	One metre	432.30
	b) Horizontal	One metre	474.10

Schedule Item No.	Description	Unit	Rates in Rupees
11	Drilling of borewell inside well 150mm dia.		
	a) Vertical	One metre	541.20
	b)Horizontal	One metre	572.00
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	904.00
ii	From 60 m upto 90 m Depth ending from ground level	One metre	979.00
iii	From 90 m upto 120 m Depth ending from ground level	One metre	1038.00
iv	From 120 m upto 150 m Depth ending from ground level	One metre	1093.00
v	From 150 m upto 180 m Depth ending from ground level	One metre	1110.00
vi	From 180 m upto 210 m Depth ending from ground level	One metre	1146.00
vii	From 210 m upto 240 m Depth ending from ground level	One metre	1179.00
viii	From 240 m upto 270 m Depth ending from ground level	One metre	1220.00
ix	From 270 m upto 300 m Depth ending from ground level	One metre	1247.00
x	From 300 m upto 330 m Depth ending from ground level	One metre	1277.00
xi	From 330 m upto 360 m Depth ending from ground level	One metre	1304.00
12 b	Reaming 140/150 mm dia pilot bore to 300mm dia bore as directed by the TWAD Board Officers.		
i.	Upto 60 m depth ending below ground level	One metre	227.00
ii	From 60 m depth and upto 90 m depth ending below ground level	One metre	241.00

Schedule Item No.	Description	Unit	Rates in Rupees
iii	From 90 m upto 120 m depth ending below ground level	One metre	257.00
iv	From 120 m upto 150 m depth ending below ground level	One metre	261.00
v	From 150 m upto 180 m depth ending below ground level	One metre	273.00
vi	From 180 m upto 210 m depth ending below ground level	One metre	287.00
vii	From 210 m upto 240 m depth ending below ground level	One metre	300.00
viii	From 240 m upto 270 m depth ending below ground level	One metre	311.00
ix	From 270 m upto 300 m depth ending below ground level	One metre	328.00
x	From 300 m upto 330 m depth ending below ground level	One metre	341.00
xi	From 330 m upto 360 m depth ending below ground level	One metre	353.00
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	255.00
ii	From 60 m depth and upto 90 m depth ending below ground level	One metre	270.00
iii	From 90 m upto 120 m depth ending below ground level	One metre	287.00
iv	From 120 m upto 150 m depth ending below ground level	One metre	296.00
v	From 150 m upto 180 m depth ending below ground level	One metre	306.00
vi	From 180 m upto 210 m depth ending below ground level	One metre	329.00
vii	From 210 m upto 240 m depth ending below ground level	One metre	376.00
viii	From 240 m upto 270 m depth ending below ground level	One metre	386.00
ix	From 270 m upto 300 m depth ending below ground level	One metre	395.00
x	From 300 m upto 330 m depth ending below ground level	One metre	408.00
xi	From 330 m upto 360 m depth ending below ground level	One metre	418.00

Schedule Item No.	Description	Unit	Rates in Rupees
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	350.00
ii	From 60 m depth and upto 90 m depth ending below ground level	One metre	392.00
iii	From 90 m upto 120 m depth ending below ground level	One metre	418.00
iv	From 120 m upto 150 m depth ending below ground level	One metre	443.00
v	From 150 m upto 180 m depth ending below ground level	One metre	461.00
vi	From 180 m upto 210 m depth ending below ground level	One metre	474.00
vii	From 210 m upto 240 m depth ending below ground level	One metre	485.00
viii	From 240 m upto 270 m depth ending below ground level	One metre	508.00
ix	From 270 m upto 300 m depth ending below ground level	One metre	527.00
x	From 300 m upto 330 m depth ending below ground level	One metre	553.00
xi	From 330 m upto 360 m depth ending below ground level	One metre	572.00
12e	Labour Charges for inserting 150 mm/200mm/250 mm dia (M.S. Casing pipes assembly with slots or without 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	203.90
ii	200 mm dia Casing Pipes assembly	One metre	203.90
iii	250 mm dia Casing Pipes assembly	One metre	207.30
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	197.60
ii	200 mm dia Casing Pipes assembly	One metre	203.90
iii	250 mm dia Casing Pipes assembly	One metre	203.90

Schedule Item No.	Description	Unit	Rates 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	1332.30
	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 rotatry mud and circulation method using Contractor's rig, fuel, labour, drilling, betonite 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	659.00
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	186.00
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	167.20
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	143.00
ii	165 mm/168 mm dia PVC Casing pipes Assembly	One metre	167.20

Schedule Item No.	Description	Unit	Rates in Rupees
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	1036.20
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	1268.30
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	409.80
ii	Conveyance 10 to 20 Kms	-do-	514.30
ii	Conveyance 20 to 40 Kms	-do-	626.70
iv	Conveyance above 40 Kms	-do-	726.30
	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	673.30
ii	Above 40 m	Each	768.10
c.	Erection of shallow well hand pumps	Each	297.20
d.	Erection Extra deep well hand pumps	Each	869.40

Schedule Item No.	Description	Unit	Rates in Rupees
e.	Removal of deep well hand pumps from borewell		
i.	Up to 40 m	Each	673.30
ii	Above 40 m	Each	848.50
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	715.00
ii)	Above 30 M	Each	836.00
16 a	Erection of filter point with G.I. Pipes of 32 mm to 65 mm dia.	Each	194.40
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	323.00
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	4350.00
ii	Above 3 HP upto 7.5 HP	Each	5599.00
iii	Above 7.5 HP to 20 HP	Each	6561.00
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		

Schedule Item No.	Description	Unit	Rates in Rupees
	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	5819.00
ii	Above 3 HP upto 7.5 HP	Each	6799.00
iii	Beyond 7.5 HP upto 20 HP	Each	7774.00
	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	5915.00
ii)	Above 5.00 HP to 10.00 HP	Each	6778.00
iii)	Above 10.00 HP to 20.00 HP	Each	7520.00
17 d	Conveyance of power pumpset (centrifugal, jet and submersible) and its accessories from divisional stores to site of works.	Each Power Pump and its accessories	
	Conveyance upto 10 Kms	-do-	891.90
	Conveyance 10 to 20 Kms	-do-	980.30
	Conveyance 20 to 40 Kms	-do-	1451.10
	Conveyance 40 to 60 Kms	-do-	1769.40
	Conveyance 60 to 80 Kms	-do-	2322.20
	Conveyance above 80 Kms	-do-	2663.00
	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		

Schedule Item No.	Description	Unit	Rates in Rupees
	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	3.40
b	Sheet piles (For dingham)	Per Pile/ Per day	5.20
c	Compartment sheet with Grills (3' - 0" Wide)	Per sheet/ Per day	5.20
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	1332.10
ii)	300/250 Cfm (100 PSI)	1 hour (or) Part there of	1036.20
ii)	125 Cfm (100 PSI)	1 hour (or) Part there of	949.30
	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	5.20
f	Hand test pump	Per day/ 8 hours	49.30
g	Pile hammer	Per day/ 8 hours	5.20
h	Concrete mixer 5 Cft. With driver (Excluding cost of fuel)	Per day/ 8 hours	454.70
i.	Concrete mixer 7 Cft. With driver (Excluding cost of fuel)	Per day/ 8 hours	686.10
j	Hand operated winch	Per day/ 8 hours	45.90
k	Pile cap	Per day/ 8 hours	12.30

Schedule Item No.	Description	Unit	Rates in Rupees
l	Hire charges for diesel pumpset upto 3 HP with fuel and crew charges including transportation	Per hour	139.70
m	Hire charges for diesel pumpset above 3 HP to 7.5 HP with fuel and crew charges including transportation	Per hour	194.40
19 a	Labour for tying barbed wire fencing horizontally through the holes in RCC posts with required tension.	One metre	5.20
b	Labour for tying barbed wire fencing vertically with required tension	One metre	5.20
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	271.50
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.	1079.80
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. (The rate is net inclusive of all Taxes).	1 KM	2650.00

**RATES FOR EARTH WORK
EXCAVATION FOR SEWERAGE WORKS
AND PIPE LAYING WORKS FOR WATER
SUPPLY**

Sh	d u l e	R a t e s		
m	N o.	D e s c r i p t i o n	U n i t	R u p e e s
EARTH WORK EXCAVATION FOR PIPE LAYING WORKS FOR WATER SUPPLY				
I		Earth work excavation and depositing on bank with initial lead of 10 m and lift of 2 M in narrow trenches for laying of pipes for water supply 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.	One cubic metre	84.50
b		Hard stiff clay, stiff black cotton, hard red earth, shales, murrum gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil.	One cubic metre	126.50

EARTH WORK EXCAVATION FOR SEWERAGE WORKS

Schedule Item No.	Description	Unit	Rates in Rupees
II	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 B	Cu.m	33.80
2	Slush and silt under water upto 0.75 metre depth requiring the aid of baskets and vessels SS 20 B	Cu.m	42.30
3	Hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS20B	Cu.m	50.60
4	Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting	Cu.m	75.30
5	In loose boulders in excavation of various sizes 150mm to 625mm	Cu.m	119.30
6	Medium Rock and Dense Medium Rock not requiring blasting	Cu.m	132.00
7	QUARRYING AND BLASTING		
a	Hard rock measured in solid including blasting and stacking	Cu.m	358.00
b	Removing hard rock by wedging chiselling and trimming to proper shape where blasting is prohibited.	Cu.m	718.00
c	Medium rock and dense medium rock requiring blasting	Cu.m	183.00
d	Extra for every additional 10 metres lead or part thereof over the initial lead for blasted materials	Cu.m	4.40
e	Extra for every additional 1 metre lift or part thereof over the initial lift of 2 m for blasted materials	Cu.m	4.50
f	Benching hard rock upto an average 10cm depth	Sq.m	346.00
g	Drilling holes in hard granite 32mm diameter	RM	99.00
h	Drilling holes in hard granite 40mm diameter	RM	116.00
i	Drilling holes in hard granite 45mm diameter	RM	136.00
j	Drilling holes in hard granite 50mm diameter	RM	162.00
k	Drilling holes in hard granite 75mm diameter	RM	184.00

NOTE: Double the relevant rate will apply in excavation in all the soils and rock classifications in respect of schedule item No. II only.

**RATES FOR EARTH WORK
EXCAVATION AND REFILLING FOR
PIPELINE WORKS ON LINEAR
MEASUREMENT BASIS**

RATES FOR EARTH WORK EXCAVATION AND REFILLING FOR PIPE LINE WORKS ON LINEAR MEASUREMENT BASIS

Type	Pipe size in mm	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		126.50		
					Cost of refilling		17.75		
					Cost of loose soil		84.50		
CI/DI/MS	80	0.75	1.05	0.79	0.098	0.780	99.94	66.76	13.85
	100	0.75	1.05	0.79	0.118	0.777	99.94	66.76	13.79
	125	0.75	1.05	0.79	0.144	0.771	99.94	66.76	13.69
	150	0.75	1.05	0.79	0.170	0.765	99.94	66.76	13.58
	200	0.80	1.10	0.88	0.222	0.841	111.32	74.36	14.93
	250	0.80	1.20	0.96	0.274	0.901	121.44	81.12	15.99
	300	0.80	1.35	1.08	0.326	0.997	136.62	91.26	17.70
	350	0.90	1.45	1.31	0.378	1.193	165.72	110.70	21.18
	400	0.90	1.55	1.40	0.429	1.251	177.10	118.30	22.21
	450	1.00	1.70	1.70	0.480	1.519	215.05	143.65	26.96
	500	1.00	1.85	1.85	0.532	1.628	234.03	156.33	28.90
	525	1.00	1.85	1.85	0.532	1.628	234.03	156.33	28.90
	600	1.10	2.05	2.26	0.635	1.938	285.89	190.97	34.40
	700	1.20	2.30	2.76	0.738	2.332	349.14	233.22	41.39
	750	1.25	2.45	3.06	0.790	2.573	387.09	258.57	45.67
AC CI 15	80	0.75	1.05	0.79	0.104	0.779	99.94	66.76	13.83
	100	0.75	1.05	0.79	0.124	0.775	99.94	66.76	13.76
	125	0.75	1.05	0.79	0.151	0.770	99.94	66.76	13.67
	150	0.75	1.05	0.79	0.178	0.763	99.94	66.76	13.54
	200	0.80	1.10	0.88	0.235	0.837	111.32	74.36	14.86
	250	0.80	1.20	0.96	0.286	0.896	121.44	81.12	15.90
	300	0.80	1.35	1.08	0.340	0.989	136.62	91.26	17.55
	350	0.90	1.45	1.31	0.396	1.162	165.72	110.70	20.63
	400	0.90	1.55	1.40	0.452	1.235	177.10	118.30	21.92
	450	1.00	1.70	1.70	0.502	1.502	215.05	143.65	26.66
	500	1.00	1.85	1.85	0.559	1.605	234.03	156.33	28.49
	600	1.10	2.05	2.26	0.658	1.915	285.89	190.97	33.99
AC CI 10	80	0.75	1.05	0.79	0.104	0.779	99.94	66.76	13.83
	100	0.75	1.05	0.79	0.124	0.775	99.94	66.76	13.76
	125	0.75	1.05	0.79	0.149	0.770	99.94	66.76	13.67
	150	0.75	1.05	0.79	0.175	0.763	99.94	66.76	13.54
	200	0.80	1.10	0.88	0.229	0.839	111.32	74.36	14.89
	250	0.80	1.20	0.96	0.281	0.898	121.44	81.12	15.94
	300	0.80	1.35	1.08	0.333	0.993	136.62	91.26	17.63
	350	0.90	1.45	1.31	0.389	1.186	165.72	110.70	21.05
	400	0.90	1.55	1.40	0.436	1.246	177.10	118.30	22.12
	450	1.00	1.70	1.70	0.486	1.515	215.05	143.65	26.89
	500	1.00	1.85	1.85	0.541	1.620	234.03	156.33	28.76
	600	1.10	2.05	2.26	0.648	1.925	285.89	190.97	34.17

Type	Pipe size in mm	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.
PVC/ HDPE/ GRP	40	0.60	1.05	0.63	0.040	0.629	79.70	53.24	11.16
	50	0.60	1.05	0.63	0.050	0.628	79.70	53.24	11.15
	63	0.60	1.05	0.63	0.063	0.627	79.70	53.24	11.13
	75	0.60	1.05	0.63	0.075	0.626	79.70	53.24	11.11
	90	0.60	1.05	0.63	0.090	0.624	79.70	53.24	11.08
	110	0.60	1.05	0.63	0.110	0.621	79.70	53.24	11.02
	125	0.60	1.05	0.63	0.125	0.618	79.70	53.24	10.97
	140	0.60	1.05	0.63	0.140	0.615	79.70	53.24	10.92
	160	0.60	1.05	0.63	0.160	0.610	79.70	53.24	10.83
	180	0.75	1.05	0.79	0.180	0.760	99.94	66.76	13.49
	200	0.80	1.10	0.88	0.200	0.850	111.32	74.36	15.09
PSC/ BWSC	350	0.90	1.45	1.31	0.464	1.136	165.72	110.70	20.16
	400	0.90	1.55	1.40	0.514	1.188	177.10	118.30	21.09
	450	1.00	1.70	1.70	0.564	1.450	215.05	143.65	25.74
	500	1.00	1.85	1.85	0.614	1.554	234.03	156.33	27.58
	600	1.10	2.05	2.26	0.724	1.844	285.89	190.97	32.73
	700	1.20	2.30	2.76	0.824	2.227	349.14	233.22	39.53
	800	1.25	2.45	3.06	0.934	2.378	387.09	258.57	42.21
	900	1.40	2.60	3.64	1.054	2.768	460.46	307.58	49.13
	1000	1.70	2.60	4.42	1.150	3.381	559.13	373.49	60.01
	1100	1.80	2.75	4.95	1.250	3.723	626.18	418.28	66.08
	1200	1.90	3.00	5.70	1.350	4.269	721.05	481.65	75.77
GI	15	0.75	1.05	0.79	0.020	0.787	99.94	66.76	13.97
	20	0.75	1.05	0.79	0.030	0.787	99.94	66.76	13.97
	25	0.75	1.05	0.79	0.030	0.787	99.94	66.76	13.97
	32	0.75	1.05	0.79	0.040	0.786	99.94	66.76	13.95
	40	0.75	1.05	0.79	0.050	0.786	99.94	66.76	13.95
	50	0.75	1.05	0.79	0.060	0.786	99.94	66.76	13.95
	65	0.75	1.05	0.79	0.070	0.784	99.94	66.76	13.92
	80	0.75	1.05	0.79	0.090	0.781	99.94	66.76	13.86
	100	0.75	1.05	0.79	0.110	0.778	99.94	66.76	13.81
	125	0.75	1.05	0.79	0.140	0.772	99.94	66.76	13.70
	150	0.75	1.05	0.79	0.160	0.767	99.94	66.76	13.61

Note : Earth excavation in SDR, DMR,HR etc., the linear measurement rate may be worked out separately and to be approved by the SE concerned after verification of soil classifications by putting proper trial pits at closer intervals". (B.P.Ms.No.82 / COM Wing / dt.22.8.2008).

**RATES FOR EARTH WORK
EXCAVATION OTHER THAN PIPE
LAYING WORKS AND WELLS**

EARTH WORK EXCAVATION OTHER THAN PIPE LAYING WORKS AND WELLS

Schedule Item No.	Description	Unit	Rates 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	37.10
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	33.80
3	Slush and silt under water upto 0.75 metre depth requiring the aid of baskets and vessels SS 20 B	Cu.m	42.30
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	8.75
4a	7.50 cm to 15cm thick	Sq.m	10.60
5	Sectioning during forming bunds when earth moving machinery, lorries and rollers are used for consolidation.	Cu.m	6.45
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	53.90
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	50.60
8	Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting	Cu.m	75.30
9	In loose boulders in excavation of various sizes 150mm to 625mm	Cu.m	119.30
10	Medium Rock and Dense Medium Rock not requiring blasting	Cu.m	132.00
11	Extra for every additional 10 metres lead or part thereof over the initial lead	Cu.m	6.30
12	Extra for every additional 1 metre lift or part thereof over the initial lift	Cu.m	5.05
13	Breaking clods, consolidating and sectioning	Cu.m	3.15
14	Breaking clods, consolidating and sectioning the earth scooped by bull dozers	Cu.m	9.50

Schedule Item No.	Description	Unit	Rates in Rupees
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	10.60
b)	By power roller including hire charges	Cu.m	17.75
16	Benching old embankment slopes 45cmx45cm	Cu.m	2.05
17	Puddle wall work	Cu.m	84.00
18	Turfing in slopes including watering and fixing with initial lead upto 50m.	Sq.m	17.75
19a	Refilling with excavated sand complying with standard specification for filling in foundation and basement	Cu.m	15.60
19.b	Refilling with excavated soil (other than sand) complying with the standard specification for filling in foundation and basement	Cu.m	17.75

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 soil 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, 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, road dam, pits for avenue trees, and pits for poles and towards and catch water pits.
- 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 any 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.

Schedule Item No.	Description	Unit	Rates in Rupees
	Dismantling		
	Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of walls		
1	Brick / stone in clay walls under 3 m high	cu.m	31.00
2	Brick / stone in clay walls, add for every additional 3 m or part there of over the initial height of 3 m	cu.m	10.40
3	Mud / sun dried brick walls under 3 m high	cu.m	20.80
4	Mud / sun dried brick walls, add for every additional 3 m or part thereof over the initial height of 3 m	cu.m	6.00
5	Brick / stone masonry in lime mortar walls under 3 m high	cu.m	95.10
6	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	10.60
7	Brick or stone masonry in Cement mortar walls under 3 m high	cu.m	116.60
8	Brick or stone masonry in Cement mortar walls, add for every additional 3 m or part thereof over the initial height of 3 metre	cu.m	12.40
9	Terracing work in roof or floor	sqm	31.50
10	Flag stone in roof or floor including lifting	sqm	16.70
11	Cut stone slab over culverts upto 3.3.m height below ground level	cu.m	484.00
12	Cut stone slab over culverts over 3.3.m height below ground level	cu.m	504.90
13	Removal of cut stone slabs / RCC Cover slabs	sqm	212.00
14	Refixing cut stone slabs/ RCC Cover slab	sqm	232.00
15	Pantile or Mangalore tiled roof without roof timbers	sqm	8.30
16	Flat and Pan tiles or Mangalore tiles over flat tiles, without roof timbers	sqm	11.60
17	Asbestos cement sheets roofing without roof timbers	sqm	7.50
18	Corrugated iron sheet roofing over pan tiles, without roof timbers	sqm	12.40
19	Old Thatched roof, including tying materials into small bundles for reuse	sqm	3.70
20	Wrought and put up framed timbers in roofs / floors	cu.m	305.00
21	Doors and windows including removal of frames, hinges and fastenings	sqm	63.00

Schedule Item No.	Description	Unit	Rates in Rupees
22	Drystone apron or revetment, stacking within 40 m lead	cu.m	54.20
23	Grouted stones apron or revetment, stacking within 40 m lead	cu.m	63.00
24	Dry stone masonry walls	cu.m	46.00
25	*Dismantling lime concrete	cu.m	147.00
26	*Dismantling plain cement concrete	cu.m	200.00
27	*Dismantling reinforced cement concrete	cu.m	3040.00
	Note * 1) The rate for dismantling lime concrete, cement concrete and R.C. concrete are exclusive of baling charges. The rate is same in all floors. 2) For dismantling below ground level 25% extra over the basic rates (i.e. the rates already available in the schedule of rate) for dismantling is allowed.		
28	Chipping of concrete and roughening the surface	sqm	16.70
29	Pressed tiles & weathering course	sqm	19.00
30	One course of pressed tile roof finish in Cement Mortar	sqm	10.70
31	One course of terrace bricks roof finish in Cement Mortar	sqm	12.40
32	Two course of flat tiles roof finish in Cement Mortar	sqm	12.40
33	Mosaic in situ finish in cement mortar in flooring and in wall surface	sqm	26.00
34	Floor finish and dadoing walls in Cement Mortar with mosaic tiles/ glazed tiles/ cuddapah slabs.	sqm	25.10
35	1. Clearing the site		
a	Clearing Heavy jungle	sqm	3.70
b	Clearing Light jungle	sqm	2.80
c	Clearing Scrub jungle	sqm	2.55
d	Uprooting and removing large palmyrah/ coconut stumps	each	72.90
e	Uprooting and removing small palmyrah/ coconut stumps	each	52.10
f	Removing weeds in channel and drain	sqm	1.05
g	Cleaning juliflora jungle with uprooting	sqm	4.15
h	Cleaning juliflora jungle without uprooting	sqm	3.15

Schedule Item No.	Description	Unit	Rates in Rupees
<p>Note : Definition of large and small stumps :</p> <p>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>			
36	QUARRYING AND BLASTING		
a	Hard rock measured in solid including blasting and stacking	Cu.m	358.00
b	Removing hard rock by wedging chiseling and trimming to proper shape where blasting is prohibited.	Cu.m	718.00
c	Medium rock and dense medium rock requiring blasting	Cu.m	183.00
d	Extra for every additional 10 metres lead or part thereof over the initial lead for blasted materials	Cu.m	4.40
e	Extra for every additional 1 metre lift or part thereof over the initial lift of 2 m for blasted materials	Cu.m	4.50
f	Benching hard rock upto an average 10 cm depth	Sq.m	346.00
g	Drilling holes in hard granite 40mm diameter	RM	116.00
h	Drilling holes in hard granite 45mm diameter	RM	136.00
i	Drilling holes in hard granite 50mm diameter	RM	162.00
j	Drilling holes in hard granite 75mm diameter	RM	184.00
k	Drilling holes in hard granite 32mm diameter	RM	99.00

- Note :
- 1) 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 less 40 percent of stack measurement for voids.
 - 2) 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.
 - 3) 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)

OPEN WELL EXCAVATION

Schedule Item No.	Description	Unit	Rates in Rupees
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	33.80
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, murrums gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil - First depth of 2 metres	Cu.m	50.40
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	77.60
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	126.00
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	189.00
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	367.00
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	52.40

Schedule Item No.	Description	Unit	Rates in Rupees
8	Sinking well in sand, including bailing or pumping charges if necessary etc. complete - First depth of 2 metres	Cu.m	73.40
9	Sinking well in hard stiff clay, light black cotton soil, hard red earth, shales, murrum, 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	73.40

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.

RATE FOR EARTH WORK BY DEPLOYING MACHINERIES

Schedule Item No.	Description	Unit	Rates 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	42.85
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	3.45
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	25.30
b.	Having width of 3 m – 10 m	Cu.m	31.00
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	36.00
	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	54.00
2	Add for works in every upper floor over the rate of preceding floor	Cu.m	107.00
3	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	35.70

Schedule Item No.	Description	Unit	Rates in Rupees
ii.	Add for works in every upper floor over the rate of preceeding floor	Cu.m	71.80
	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	53.30
2	Add the basic rate for works above 4.5m depth and upto 9.0 m depth below ground level	Cu.m	106.80
3	Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level	Cu.m	106.80
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	35.75
2	Add the basic rates for works above 4.5m depth and up to 9.0m depth below ground level	Cu.m	71.80
3	Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level	Cu.m	71.80

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 SI.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.

Schedule Item No.	Description	Unit	Rates in Rupees
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	31.65
2	Where vibrators are specified for consolidation in RCC, this rate per cum over and above the provision made in the standard data book for consolidation with manual labour may be allowed.	Cu.m	42.60
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	4.40
2	Clean removal of lime plaster from walls	sq.m	3.40
3	Clean removal of cement plaster from walls	sq.m	3.65
4	Clean removal of cement plaster from walls and racking out joints 20mm deep	sq.m	4.75
White washing and colour washing and distemping			
1	Thorough scrapping of old plastered surface	sq.m	2.00
2	Washing of plastered surface with soap, soda and water (or with soda, lime, brush and water)	sq.m.	2.50
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	15.75
2	Removing old paint from doors and windows by scrapping and refitting of shutters	sq.m	6.70
3	Removing paint from doors, windows and wood works by manual labour	sq.m	4.55
4	Removing old paint from structural steel by blow lamp or sand paper	sq.m	9.50
5	Repolishing the mosaic flooring including polishing stone and hire charges for polishing machine but excluding cost of electrical charges.	sq.m	9.30
6	Scrapping and removing old paint from structural steel by manual labour	sq.m	4.25
7	Removing old paint from iron surface with sand paper	sq.m	4.00

Schedule Item No.	Description	Unit	Rates in Rupees
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	4.00
ii.	Driving piles upto 15 cm dia in river bed	RM	12.35
iii.	Pointing the edge and driving bamboo/ casurina/ eucalyptus piles into river bed for the first 1m depth below ground level	Each	10.60
iv.	Driving bamboo/ Casurina/ eucalyptus piles into ground beyond 1m depth from ground level. For every 1m (or) part thereof	RM	10.60
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	2.05
vi.	Extra for every additional lead of 1.6 KM (for the above item)	One bundle	0.24
vii.	Driving casurina piles into bed including scaffolding etc., complete	RM	5.15
viii.	Casurina walling pieces 40mm to 50mm diameter including fixing with nails and tying with ropes.	RM	7.10
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	6180.00
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	698.00
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	580.00

Schedule Item No.	Description	Unit	Rates in Rupees
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	649.00
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	541.00
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	366.00
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	649.00
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	698.00
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	366.00
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	580.00
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	542.00

Schedule Item No.	Description	Unit	Rates in Rupees
12	Labour charges for fixing doors along with frames in position etc. complete(finished work)	sq.m	104.00
13	Labour charges for fixing windows and ventilators along with frames in position etc. complete	sq.m	130.00
14	Labour wrought and put up in position flush shutters for single leaf shutters.	sq.m	97.00
15	Double leaf shutters	sq.m	150.00
16	Labour wrought and put up in position fly proof wire gauge shutters for doors, windows and ventilators	sq.m	347.00
17	Labour wrought and put up for providing teak wood weld mesh screen with frames 3"x3" (0.075mx0.075m)	sq.m	484.00
	Breaking metals		
i.	Labour charges for breaking 40mm metal from departmental blasted stones	Cu.m	185.00
ii.	Labour charges for breaking 20mm metal from departmental blasted stones	Cu.m	276.00
iii.	Labour charges for breaking 50mm metal from departmental blasted stones	Cu.m	110.00
	Cement Mortar		
i.	Grinding Mortar (Special Grinding lime)	Cu.m	167.90
ii.	Grinding Mortar (Ordinary Grinding lime)	Cu.m	128.00
iii.	Mixing Mortar – Cement by manual	Cu.m	52.40
iv.	Mixing Mortar- Cement by Machine Mixing	Cu.m	69.60
	Metal & Iron works		
i.	Petty iron work for truss, straps etc. (Wrought & fixed) labour only	Kg	25.10
ii.	Iron works for trusses & record racks (labour only)	kg	23.20
iii.	Fixing in position mild steel grills for windows, ventilators, etc.	Kg	14.50
iv.	Fixing MS rods round/square for windows	Kg	13.50
v.	Fixing iron bars in windows and ventilators	Kg	13.50