

GOVERNMENT OF TELANGANA



COMMON SCHEDULE OF RATES AS PER T.S. REVISED STANDARD DATA FOR THE YEAR 2016-17 (Effective from 1st June, 2016)

BOARD OF CHIEF ENGINEERS

MASTER
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Office of the Engineer-in-Chief (I.W)
I&CAD Dept., Errum Manzil, Hyderabad

Proc. No. ENC/IW/P&M/EE/DEE-2/AEE.4/SOR 16-17/Vol.I Dt:28.06.2016

Sub: Schedule of Rates as per Telangana Revised Standard Data for the year 2016-17 -Irrigation & CAD works(Part-I), Road & Bridge Works (Part-II), Building Work Items(Part-III) and Public Health Items (Part-IV)-approved-Printing & Communication of SoRs - Reg.

Ref: 1) G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009
2) ENC (R&B) Lr.No. 2467/EE(R)/DEE1/AEE4/2016 dt. 31-05-2016
3) ENC(PR) Lr No.714/AE/DEE(T)/SoR 2016-17/2016 Dt:30.05.2016
4) ENC (R&B) Procs. No. ENC(B)/DEE1/SAA3/ B-SoR: 2016-17
dt: 23-06-2016
5) ENC (PH&ME) Lr.No. 146/AE4/T2/SoR/2016-17 dt. 16-06-2016
6) Industrial Consumer Price Index points obtained from Commissioner, Labour Department
7) Minutes of BOCEs meeting for Schedule of Rates held on 26.05.2016.

* * * *

The Government have approved Revised Standard Data vide ref 1st cited. The Schedule of Rates as per Telangana Revised Standard Data for the year 2016-17 is approved based on the following.

The draft schedule of rates for the year 2016-17 furnished by the ENC (IW), ENC (PR), ENC(R&B), ENC(R&B-B) and ENC (PH&ME) were discussed and finalized in the annual BOCE meeting held on 26.05.2016 at 3:00 PM in BOCE's Conference hall.

Based on the BoCE's Discussions The Engineer-in- Chief, Public Health vide reference 5th has furnished Part-IV of Common SoR for Public Health works items and Public Health Materials

The Engineer-in-Chief (R&B) vide reference 2nd cited has furnished the Part-II of Common SoR for Roads & Bridge items for the year 2016-17.

The Engineer-in- Chief (Buildings), R&B vide reference 4th cited has furnished the Part-III of Common SoR i.e., Buildings for the year 2016-17

The Engineer-in-Chief (IW) has furnished the rates proposed for Labour Rates and Basic data for Irrigation Items Part-I of Common SoR for the year 2016-17.

The procedure for the adoption of Irrigation work items, lead & lift charges (Common to all departments) is incorporated in the Annexure-A of SoR. The approved basic rates are applicable to the datas as per Revised Standard Data approved by the Government vide G.O.1st cited.

The Government vide G.O. MS.No.15 T.R&B(R-1) Department Dt:24.12.2014 has issued orders for Adoption of MoRTH data by all Engineering Departments of Telangana State in respect of Road and Bridge works, with prevailing Standard Schedule of Rates in preparation of estimates. The Government approval is necessary to adopt any other data.

The lead & lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & lift chapter in the I&CAD Works (Part-I) of Telangana Revised Standard Data.

One hard copy & compact disc containing Schedule of Rates is here with communicated. No other items other than the items communicated by this Office shall be introduced in the SoR.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2016-17. The unauthorized printing & selling of the SoR is strictly prohibited. The Schedule of Rates for 2016-17 will be in force until the new SoR comes in to force.

Any discrepancies found (or) corrections required in SoR 2016-17 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1st June of 2016.

The receipt of the proceedings may be acknowledged.

Encl: SoR 2016-17 containing Part-I (Irrigation & CAD works), Part-II (Road & Bridge works) Part-III (Buildings works) and Part-IV (Public Health works)

Sd/- J.Vijaya Prakash, 28.06.2016
Engineer-in-Chief (I.W.)
Chairman, BOCE (SoR)

I) Copy communicated to the Special Chief Secretary to Govt., I&CAD Dept., B-Block, Secretariat Buildings, Hyderabad for favour of information.

II) Copy Communicated to the following Heads of Departments along with Enclosures for information.

1) Engineer-in-Chief (Admn & NH)., Roads & Buildings Department.

2) Engineer-in- Chief (PH & ME), Public Health Department.

3) Engineer-in-Chief (P.R.), Panchayath Raj Department.

4) Engineer-in-Chief (RWS) R W S, Department.

5) Engineer-in-Chief (Buildings), R&B Department.

6) Copy of C.D containing Schedule of Rates 2016-17 & Standard data, part-1 (Irrigation & CAD works) to all Engineers-in-Chief, Chief Engineers of Irrigation & CAD Department for favour of information.

III) Copy to the Superintending Engineer, Irrigation Circle, Irrigation & CAD Department, Red Hill, Hyderabad for necessary action.

Sd/- J.Vijaya Prakash, 28.06.2016
Engineer-in-Chief (I.W.)
Chairman, BOCE (SoR)

Important – Read The following

ANNEXURE- A

1) The SPIU (Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of Irrigation work items.

2) The lead and lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead &Lift charges chapter in the I&CAD works (Part-1) of Telangana Revised standard data.

The Leads for Steel shall be from the nearest market place to the project area

3) For Gates & Hoist works, the excise duty on the fabrication of work (other than materials) shall be added as per the Government Orders issued from time to time while preparing the estimate.

4) The estimate sanctioning authority shall physically verify each and every Irrigation work item data incorporated in the estimate with basic input data before sanction of the estimate. Any lapses or arithmetic errors arising in the sanction of data's /estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.

5) Any discrepancies / corrections required for improper basic input data appearing in the approved data's of Irrigation work items in the software package and hard copy of SoR & Standard data's (part-1) may be brought to the notice of undersigned for issuing corrections.

6) Estimate Sanction Authority shall examine the Components/Materials/Items proposed for arriving finished rate in the Data. Any Items Components/Materials/Items not required for that work, can be deleted by the Estimate Sanctioning Authority while according the approval to Datas.

Sd/- J.Vijaya Prakash, 28.06.2016
Engineer-in-Chief (I.W.)
Chairman, BOCE (SoR)

PART-I
IRRIGATION & CAD
WORKS

INDEX**PART-I**

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PREAMBLE

PREAMBLE

I. AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a) i. 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Telangana except Greater Hyderabad (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- ii. 40% extra over the rates on labour component of works is allowed or Greater Hyderabad (up to a belt of 12 Kms. from Municipal Corporation limits).
- b) 20% extra over basic rates on labour component of works is allowed in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms from Municipal limits).

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

20% over basic rates on labour component works is allowed for works situated within 10 Kms belt of Industrial area of, Jeedimetla, Lingampally, Ibrahimpatnam, Tandur in Ranga Reddy District, Kothur in Mahabubnagar District, Patancheru, Ramachandrapur in Medak District, Bibinagar and Wadepally in Nalgonda District, Ramagundam, Godavarikhani, Nagapally (Centenary Colony, Begumpet "X" roads), Takkelapally in Karimnagar District, Manchiryal, Mandamarri, Bellampalli in Adilabad District, Sarpaka, Kothagudem, Paloncha, Manguguru, Singareni Collieries in Khammam District and Kamalapur, Bhoopalpally of Warangal District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

NOTE:

1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads and other roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Foot Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note:

Area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

II. EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION INRESTRICTED PLACES: -A. TRENCHES:

1) Trenches of not more than 2 metres in width : 25% extra

B. TRIAL PITS:

- 1) Up to 2 Metres depth : 25% extra
 2) 2 Metres to 4 Metres depth : 50% extra
 3) 4 Metres to 6 Metres depth : 75% extra
 4) 6 Metres to 8 Metres depth : 100% extra
 5) 8 Metres to 9 Metres depth : 150% extra
 6) More than 9 Metres depth : 200% extra

C. EXCAVATION IN RESTRICTED PLACES:-

- 1 Foundation of Buildings : 75% extra
 2 For pipe lines where the depth is less than 1.5 times the width : 75% extra
 3 For pipe lines where the depth is 1.5 times or more than the width : 120% extra
 4 Silt removal in restricted areas such as U. T's., Culverts and Syphons. : 120% extra
 5 Excavation of field channels : 75% extra
 6 For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals. : 75% extra
 7 High berm cutting of not more than 150 mm average thickness and sectioning for roads : 50% extra

Note: 1) The extra percentage is allowed over Common item for all earth works (COM-MWRK- Manual Works) for corresponding soil and Standard data items. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in

respect of items involving blasting component which may be taken as 1/3 of the cost.

III. SEIGNIORAGE CHARGES:

Note:

The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges. Appropriate Seigniorage Charges for relevant materials are to be added to the Unit rate of work item in the estimates as fixed by the Government in G.O.Ms.No.67 (Industries and Commerce Dept.) dt: 26.09.2015. Further, the Government of Telangana vide G.O.Ms.No.16 (Industries and Commerce Dept.) dt: 16.03.2016 has issued further orders towards Seogniorage fee & Dead Rent for 31 more minerals in addition to the minor minerals already vested with the state Government and the same may be noted, accordingly. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

Sd/- J.Vijaya Prakash, 28.06.2016
Engineer-in-Chief (I.W.)
Chairman, BOCE (SoR)

LABOUR RATES

LABOUR RATES

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
I.	SKILLED CATEGORY:	
1	Bar bender	565
2	Black smith / Tin smith / Rivetor	445
3	Blaster (Licensed)	515
4	Carpenter CI- I	480
5	Electrician (Licensed)	515
6	Fitter CI- I	480
7	Floor Polisher / Tile Layer	445
8	Foreman	515
9	Gauge reader	430
10	Maistry / Work Inspector	460
11	Mason CI- I / Brick layer CI- I	445
12	Mechanic CI- I	480
13	Operator Air compressor / DG set	445
14	Operator Batching plant	515
15	Operator Bus/Ambulance/ Lorry/ Tanker	515
16	Operator Concrete / Asphalt mixer	445
17	Operator Concrete / Asphalt paver	445
18	Operator Concrete pump / Placer/ ice plant	445
19	Operator Core drilling machine	515

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
20	Operator Crane/ Tower crane/ Cable way	515
21	Operator Drilling jumbo / Loco / Winch	445
22	Operator Grouting/ Guniting/ Shotcreting	445
23	Operator Jackhammer/Pneumatic tamper	445
24	Operator Pump / Ventilation fan	445
25	Operator Lathe/Drilling/Shearing machine	515
26	Operator Bending / Planing machine	445
27	Operator Road roller	445
28	Operator Shovel / Scraper / Dozer	515
29	Operator Spillway / Sluice gate	445
30	Operator Crusher / Conveyor / Mucker	445
31	Operator Tipper / Dumper / Transit mixer	515
32	Operator Concrete vibrator	445
33	Operator Vibratory plain / padfoot roller	445
34	Operator Wagon drill / Drifter	515
35	Painter CI- I	515
36	Plumber (Licensed) / Pipe fitter	515
37	Sarang / Khalasi	445
38	Spun pipe moulder	445
39	Stone chiseller CI- I / Stone cutter CI- I	445
40	Struct. steel Fabricator / Marker / Erector	555

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
41	Welder / Gas Cutter	445
42	Welder (X-ray quality)	515
II.	SEMI SKILLED CATEGORY:	
1	Asphalt Sprayer / Boiler attendant	400
2	Bhisti	400
3	Boatman with boat	420
4	Carpenter CI- II / Erector shuttering	405
5	Cartman with double bullock cart	460
6	Cartman with single bullock cart	430
7	Chavali / Navagani	400
8	Crowbarman / Jumperman	400
9	Fitter CI- II	405
10	Gangman / Head / Survey mazdoor	400
11	Gardener / Trained mali	400
12	Helper Air compressor / DG set	400
13	Helper Batching plant	400
14	Helper Blasting	400
15	Helper Bus/ Ambulance/ Lorry/ Tanker	400
16	Helper Bending/Shearing/Planing machine	400
17	Helper Carpenter	400
18	Helper Concrete / Asphalt mixer	400

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
19	Helper Concrete / Asphalt paver	400
20	Helper Core drilling machine	400
21	Helper Crane/ Tower crane/ Cable way	400
22	Helper Drilling jumbo / Loco / Winch	400
23	Helper Fitter / Fabrication	400
24	Helper Grouting/ Guniting/ Shotcreting	400
25	Helper Jack hammer / Pneumatic tamper	400
26	Helper Laboratory / Instrumentation	400
27	Helper Road roller	400
28	Helper Shovel / Scraper / Dozer	400
29	Helper Crusher / Conveyor / Mucker	400
30	Helper Tipper / Dumper/ Transit mixer	400
31	Helper Vibrator	400
32	Helper Vibratory plain/ padfoot roller	400
33	Helper Wagon drill/ Drifter	400
34	Lineman Electric / Telephone	400
35	Mason CI- II / Brick layer CI-II	405
36	Mechanic CI- II	405
37	Painter CI- II	405
38	Patkari / Neeraganti / Sowdy	400
39	Stone Chiseller CI- II	400

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
40	Stone breaker / Hammerman	400
41	Valveman / Canal sluice operator	400
III.	UN-SKILLED CATEGORY:	
1	Cement / Asphalt handling mazdoor	350
2	Civic worker	350
3	Heavy mazdoor	350
4	Light mazdoor	350
5	Watchman	350
IV.	OTHER CATEGORY:	
1	Care-taker / conductor / Lift attender	410
2	Cook / Messman	410
3	Dhobi	410
4	Diploma Engineer / Surveyor	650
5	Diver with headgear	515
6	Graduate / Laboratory Assistant	515
7	Graduate Engineer/ Geologist	870
8	Horticulture Assistant / Photographer	430
9	ITI certificate holder / Tracer / Printer	510
10	Literate mazdoor	405
11	Stenographer / Computer Operator	560
12	Telephone / Wireless Operator	510

Sl No.	CATEGORY OF WORKER	S.Rate for 2016-17
13	Typist/Job Typist	510
14	CAD operator with diploma in Engineering/General degree with CAD Certificate	700
15	Jeep Driver	500
16	Data Processing Operator	700
	<p><u>Note:-</u>1)The wage should not be less than the minimum wages of schedule of employment, subject to out turn. 2)25%extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Hyderabad Municipal Corporation and Greater Warangal Municipal Corporation limits only.</p>	

BASIC INPUT DATA FOR IRRIGATION WORK ITEMS

**STATEMENT OF RATES FOR MATERIALS
FOR THE YEAR : 2016-17**

GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:

- 1 Average of the prevailing market rates, ignoring freak rates, shall be the criteria for fixing market rates for materials.
- 2 The rates for materials shall be inclusive of all taxes, duties and other local levies.
- 3 The rates for materials shall be exclusive of Seigniorage charges wherever applicable.
- 4 The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges, shall be for all leads.
- 5 The rates provided for useful rubble / stone chips from excavation shall be at dump yard.

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Acetylene gas	cum	320
2	Asphalt 80/100 Grade	Kg	45
3	Binding wire	Kg	55
4	Burnt stone slab 10 cm thick	sqm	310
5 (a)	Ordinary Portland Cement (43/53 GRADE) *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	5500 (Rate for 5/2016)
5 (b)	Portland Pozzolana Cement *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	5400 (Rate for 5/2016)
5 (c)	Portland Slag Cement *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	5200 (Rate for 5/2016)
6	Chequered plate	Kg	63
7	Coarse aggregate 10-4.75 mm(excluding Seigniorage charges)	cum	875
8	Coarse aggregate 20-10 mm(excluding Seigniorage charges)	cum	1,150
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	1,090
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	635
	The aggregate rates mentioned above (from SI.No.7 to SI.No.10) are exclusive of Seigniorage charges but including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)		

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
11	Coir brush	Each	50
12	Copper sheet 16 SWG	kg	625
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	20
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	28
15	Curing Compound	Ltr	130
16	D – cord	Rm	7
17	Delay - noiseless trunk	Each	16
18	Detonating fuse coil	Rm	7
19	Detonating shock tube / Cord relays	Rm	35
20	Detonator delay type	Each	16
21	Detonator electric	Each	10
22	Detonator ordinary	Each	5
23	Empty cement bag	Each	5
24	Explosive ANFO	kg	55
25	Explosive ANFO high strength booster	kg	70
26	Explosive small dia (Kelvex-220 or equivalent)	kg	75
27	Fine aggregate/ sand(un- screened) for Concrete, Filtering items, Filling & Blindage (excluding Seigniorage charges)	cum	560
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges)	cum	760
29	Geo-textile (filter fabric) 160 gsm	sqm	100
30	Geo-textile (filter fabric) 200 gsm	sqm	120
31	Geo-textile (filter fabric) 250 gsm	sqm	140
32	G I Pipe 100 mm dia B Class	Rm	785
33	G I Pipe 15 mm dia A class	Rm	80
34	G I pipe 25 mm dia A class	Rm	150
35	G I pipe 40 mm dia B class	Rm	250
36	G I pipe 50 mm dia A class	Rm	290

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
37	G I Pipe 80 mm dia B Class	Rm	500
38	G.I Bolts / Nuts and Washers	kg	100
39 (a)	G.I sheet (plain)	tonne	60000
39 (b)	G.I sheet (corrugated)	tonne	64000
40	Hariyala turfing sods	sqm	28
41	Hectometer stone one line dressed	Each	260
42	Hemp yarn	kg	72
43	Honne wood planks	cum	57000
44	Hume pipe with collar 150 mm dia (NP2)	Rm	220
45	Hume pipe with collar 300 mm dia (NP2)	Rm	430
46	J- Bolts 30 cm long	Each	40
47	Jungle wood planks	cum	26000
48	Khandki stone 15 to 20 cm height	Each	11
49	Khandki stone 20 to 25 cm height	Each	13
50	Khandki stone 25 to 30 cm height	Each	16
51	Kilometer stone one line dressed	Each	470
52	LDPE sheet (Geo membrane) 500 micron thick	sqm	92
53	LDPE sheet (Geo membrane) 750 micron thick	sqm	130
54	LDPE sheet (Geo membrane) 1000 micron thick	sqm	180
55	M S Bolts / Nuts / Washers	kg	70
56	Murum(including loading charges but excluding Seigniorage charges)	cum	175
57	Oxalic acid	Ltr	80
58	Oxygen gas	cum	40
59	PVC sealing strip	Rm	44
60	PVC water stopper 310 mm wide	Rm	460
61	PVC pipe of 100 mm dia	Rm	160
62 (a)	Reinforcement steel (HYSD/TMT) from integrated steel producers like TATA,SAIL,VSP,Jindal as approved by Ministry of Steel. *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	41000 (Rate for 5/2016)

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
62 (b)	Reinforcement steel (HYSD/TMT) BIS approved secondary producers confirming to IS:1786-2008 must have valid licence and well established TMT process of either Thermax, Tempcore, Evcon Turbo & Turboquench.	tonne	Monthly rate fixed by Sub-Committee
63	Resin bond Cement capsule	Each	45
64	Rough stone 20 x 20 x 75 cm (Including Loading charges but excluding Seigniorage Charges)	Each	21
65 (a)	Shahabad stone slab polished (including loading charges but excluding Seigniorage charges)	sqm	240
65 (b)	Shahabad stone slab non-polished (including loading charges but excluding Seigniorage charges)	sqm	140
66	Stone chips (at dump yard/Spoil)(including loading charges but excluding Seigniorage charges)	cum	185
67	Stone chips (at quarry)(including loading charges but excluding Seigniorage charges)	cum	360
68	Structural steel angle / channel / beam / bars *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	37500 (Rate for 5/2016)
69	Structural steel plate / flats (including loading charges) *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	41000 (Rate for 5/2016)
70	Super Plasticizer (Pozolith-55R/Conplast RP-264 or equivalent)	kg	45
71	Synthetic Enamel paint 1st quality	Ltr	240
72	Synthetic adhesive (Resin + Hardener)	Kg	348
73	Tar felt joint filler board 12 mm thick	sqm	410
74	Tar felt joint filler board 20 mm thick	sqm	630
75	Through stones 20 x 20 x 30 to 45 cm (including loading charges but excluding Seigniorage charges)	Each	21
76	Through stones 25 x 25 x 45 to 60 cm long (including loading charges but excluding Seigniorage charges)	Each	37
77	Through stones 30 x 30 x 65 to 75 cm long (including loading charges but excluding Seigniorage charges)	Each	57
78	Un-coursed rubble stones (at dump yard /Spoil) (including loading charges but excluding Seigniorage charges)	cum	165

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
79	Un-coursed rubble stones (at quarry)(including loading charges but excluding Seigniorage charges)	cum	330
80	Water proofing compound	kg	80
81	Welding electrodes 4 mm dia	Each	13
82	Wire brush	Each	41
83	Wire mesh 20 gauge	sqm	220
84	Zinc chromate red oxide primer paint	Ltr	170
85	inorganic zinc silicate	Ltr	550
86	solvent less coal tar epoxy paint	Ltr	250
87	Zinc phosphate primer	Ltr	200
88	Allkyd based iron oxide paint	Ltr	175
89	a) Cost of hdpe (80mm dia)	Rm	220
	b) light black MS casing pipe 80mm dia (4mm thick)	Rm	680
90	welded steel wire fabric 100X100X5 mm size	Kg	165
91	Protective Mastic	Ltr	475
92	Solventless coal tar epoxy (brown)	Ltr	260
93	Excavation of drain with Excavator	cum	35
Items are Included in the Year 2016-17			
94	Crushed stone sand/Rock sand 4.75mm to 2.36 mm as per IS 383 (1970) (excluding Seigniorage charges)	Cum	510
95	Fly ash conforming to IS: 3812 (Part II & I)	Cum	72
96	Benching old embankment slopes 0.45 X 0.45 M	RM	5
97	Laying of Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges etc., with 13.615% overhead charges and contractors profit.	per bag	26

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
98	Rough stone for revetment 225mm thick (including Loading charges but excluding Seigniorage charges)	cum	160
99	Eradication of Weed growth from Drains, Canals by spraying Chemicals	sqm	2
100	Thinner	ltr	80
101	Credit for excavated rock found suitable for use	Cum	194
102	Earth Cost or compensation for earth taken from private land (Excluding Seigniorage Charges)	Cum	40

**ADDITIONAL MATERIALS FOR GATES & HOISTS
FOR THE YEAR : 2016-17**

GUIDE LINES :

- 1 For cast steel / Alloy steel / Forged steel / Bronze, Aluminum alloy components the rates shall be inclusive of cost of basic metal for these components, casting / forging charges, machining charges and applicable excise duty on finished alloy component.
- 2 For other materials the rates shall be prevailing market rates.

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Alloy steel (IS : 1570-carbon steel) shafts	Kg	240
2	Alloy steel (IS : 1570-stainless steel) pins	Kg	420
3	Bolt / Nut / Washer (hot dipped galvanized)	Kg	120
4	Bolt / Nut / Washer (stainless steel)	Kg	370
5 (a)	Bronze (IS:305)bearings/bushes	Kg	970
5 (b)	Aluminum alloy(IS:305)bearings/bushes	Kg	960
6	Cast iron blocks	Kg	90
7	Cast steel drums / gears	Kg	245
8	Cast steel pinions	Kg	230

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
9	Cast steel wheels / pulleys / hubs / rollers / retainers	Kg	200
10	Chemical for de-greasing/ derusting/phosphate coating	Ltr	140
11	Coal tar epoxy paint	Ltr	240
12	Forged steel hooks / shackles	Kg	260
13	MS pipe 200 / 300 mm dia	Kg	175
14	MS pipe 32 mm dia	Rm	190
15	MS pipe 25 mm dia	Rm	165
16	Rubber bottom seal (IS : 11855)	Rm	780
17	Rubber side seal (music note type Teflon claded) (IS : 11855)	Rm	1,840
18	Rubber side seal (music note type uncladed) (IS : 11855)	Rm	1,330
19	Rubber side seal Z-type (IS : 11855)	Rm	1,760
20	Rubber corner seal (Teflon claded) (IS : 11855)	Rm	1,790
21	Rubber corner seal (un claded) (IS : 11855)	Rm	1,270
22	Stainless steel plates / flats	Kg	300
23	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	18
24	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	27
25	Wire rope 6x37 constn (IS : 2266)	Kg	200
26	Zinc	Kg	190
27	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	700

MATERIALS FOR POWER SUPPLY WORKS
FOR THE YEAR : 2016-17

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Electric pole with fixtures	Each	For Establishing Electrical Sub-Stations at the Project Sites wherever necessary, the rates approved by TSTRANSCO may be followed.
2	Flood light 500 W	Each	
3	Flood light set	Each	
4	Flousscent tube light 40 W	Each	
5	Flousscent tube light set	Each	
6	HT / LT Circuit breaker with accessories	Set	
7	HT / LT Line conductor	1000 m	
8	PVC Armoured cable 10 sqmm and below	Rm	
9	PVC Armoured cable 16 sqmm	Rm	
10	PVC Armoured cable 25 sqmm	Rm	
11	PVC Armoured cable 70 sqmm	Rm	

DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT
FOR THE YEAR : 2016-17

GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:

- 1 The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be inclusive of all taxes, duties, other levies.
- 2 The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.
- 3 The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and other consumable accessories shall not be included in the capital cost.
- 4 In cases, where the current capital cost of machinery / equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
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SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	2,150,000
	tyres and tubes 6 sets		86,000
2	Air compressor 5 cmm electric	Each	710,000
3	Air compressor 7 cmm diesel	Each	950,000
4	Air compressor 7 cmm electric	Each	865,000
5	Air compressor 8.5 cmm diesel	Each	1,085,000
6	Air compressor 8.5 cmm electric	Each	1,120,000
7	Air compressor 15 cmm electric	Each	1,370,000
8	Angle Dozer 90 hp	Each	5,475,000
9	Batching plant 0.5 cum with accessories	Each	1,200,000
10	Batching plant 2 x 1.00 cum with accessories	Each	4,245,000
11	Batching plant 2 x 1.50 cum with accessories	Each	5,425,000
12	Bending machine	Each	530,000
13	Clamp shell and hoisting ropes	Each	30,000
14	Concrete bucket 1.5 cum	Each	56,000
15	Concrete hand mixer 45/30 ltr	Each	15,500
16	Concrete mixer 300/200 ltr(diesel)	Each	150,000
17	Concrete mixer 300/200 ltr (electric)	Each	145,000
18	Concrete mixer 600/400 ltr(diesel)	Each	260,000
19	Concrete mixer 600/400 ltr (electric)	Each	255,000
20	Concrete paver 100 Sqm / hr	Each	2,361,000
21	Convey mucker (excluding tyres)	Each	3,855,000
	tyres and tubes 6 sets		86,000
22	Core drilling machine	Each	1,100,000
23	Diesel generating set 30 KVA	Each	495,000

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
24	Diesel generating set 50 KVA	Each	640,000
25	Diesel Loco 45 hp	Each	2,120,000
26	Dewatering pump 5 hp diesel	Each	40,000
27	Dewatering pump 5 hp electric	Each	24,500
28	Dewatering pump 10 hp diesel	Each	60,000
29	Dewatering pump 10 hp electric	Each	55,000
30	Dewatering pump 20 hp diesel	Each	190,000
31	Dewatering pump 20 hp electric	Each	100,000
32	Drifter	Each	1,058,000
33	Drilling jumbo (excluding tyres)	Each	1,302,000
	tyres and tubes 6 sets		86,000
34	Dumper 4.5 cum (excluding tyres)	Each	1,450,000
	tyres and tubes 6 sets		86,000
35	Geophysical Ele.resistivity meter	Each	475,000
36	Grouting pump	Each	102,000
37	Guniting / sand blasting equipment	Each	280,000
38	Ice plant with accessories 30 t / day	Each	2,280,000
39	Jack hammer	Each	65,000
40	Needle vibrator 40 mm petrol	Each	20,000
41	Needle vibrator 40 mm electric	Each	21,000
42	Needle vibrator 60 mm petrol	Each	21,500
43	Needle vibrator 60 mm electric	Each	25,500
44	Planing machine 4 m stroke	Each	780,000
45	Plate shearing machine up to 12 mm	Each	425,000
46	Pneumatic placer 0.5 cum	Each	580,000

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
47	Pneumatic tamper	Each	85,000
48	Pug cutting machine	Each	16,000
49	Pusher leg	Each	52,000
50	Road roller diesel 10 t	Each	850,000
51	Shovel 0.50 cum 75 hp	Each	3,750,000
52	Shovel 0.85 cum 110 hp	Each	6,380,000
53	Stationery derrick crane 5 t	Each	653,000
54	Tipper 5 cum (excluding tyres)	Each	1,625,000
	tyres and tubes 6 sets		86,000
55	Tipping tub 1.5 cum	Each	240,000
56	Tower crane 5 tonne	Each	7,475,000
57	Transformer 250 KVA	Each	425,000
58	Truck 10 t (excluding tyres)	Each	1,475,000
	tyres and tubes 6 sets		86,000
59	Truck mounted derrick crane 5 t (excluding tyres)	Each	1,960,000
	tyres and tubes 6 sets		86,000
60	Upright drilling machine	Each	56,000
61	Ventilation fan 20 hp	Each	260,000
62	Vibratory pad foot roller 8 t	Each	2,950,000
63	Wagon drill	Each	650,000
64	Water tanker 8000 ltr (excluding tyres)	Each	1,422,000
	tyres and tubes 6 sets		86,000
65	Welding set	Each	48,000
66	Winch 35 hp electric	Each	375,000
67	Hydraulic Truck Crane 30T	Each	14,484,250

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
	tyres and tubes 6 sets		185,220
68	Hydraulic Truck Crane 16T	Each	10,390,875
	tyres and tubes 6 sets		185,220
69	Heavy Duty Airless Spray Painting Equipment	Each	487,770

**ACCESSORIES TO MACHINERY / EQUIPMENT
FOR THE YEAR : 2016-17**

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Casing shoe bit	Each	10,500
2	Diamond core bit BX size	Each	10,600
3	Diamond core bit NX size	Each	12,720
4	Double tube core barrel	Each	13,704
5	Extension drill rod with coupling sleeve	Rm	2,226
6	Jack hammer drill rod 1.5 m	Each	4,150
7	Jack hammer drill rod 2.5 m	Each	6,400
8	Nozzle for Guniting / sand blasting gun	Each	700
9	Paving Cylinder	Each	28,080
10	Rails 30R (30 kg / m)	tonne	52,530
11	Reamer shell	Each	5,150
12	T.C. Cross bit 50 mm dia	Each	5,000
13	T.C. Cross bit 75 mm dia	Each	10,000
14	T.C. Cross bit 100 mm dia	Each	12,000
15	Tyres and Tubes for truck	Set	18,000
16	Wire rope 16 mm dia	Rm	265

**OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT
FOR THE YEAR : 2016-17**

- 1 The rate provided for ' SUNDRIES' (Lumpsum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.
- 2 The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
- 3 Demand charges and electric power charges shall be as per prevailing TSCPDCL tariff.
- 4 Rate of interest on capital cost shall be as approved by Govt or other competent authority.

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Air hose 25 mm dia	Rm	185
2	Air hose 50 mm dia	Rm	298
3	Demand charges (HT-I : General-11 KVA category) on power supply	KVA / month	350
4	Diesel	Ltr	58.72
5	Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A): General-11 KVA category)	Kwhr	8.6
6	Excise duty on Gates / Hoist supplies	%	0%
7	Insurance charges on machinery	% / annum	0%
8	Interest on capital cost	% / annum	11.00%
9	Lubricants	Ltr	230
10	Petrol	Ltr	66.29
11	Rivets	Kg	100
12	Road tax on transport vehicles	Rs./annum	As per RTA
13	Shalimastic sealing compound	Kg	105
14	Shutter oil	Ltr	30
15	Structural steel fabrication	Kg	24
16	Sundries (Lump sum for un quantified inputs)	LS	20
17	Water hose (pressure) 20 mm dia	Rm	185
18	Steel wedges	LS	16

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
19	Elbows / Nipple / Plugs etc.,	LS	17
20	Soldering materials	LS	17
21	Steam circulation arrangement	LS	17
22	Fuel charges (gas for heating)	LS	17
23	Vulcanizing materials	LS	17
28	Gas cutting set (2 No's 15 m hose and nozzle unit)	Each	14250
29	Grease	Kg	275
30	Welding holder set (cable / holder / gloves / mask etc)	Each	7800
31	Use rate of ropes	LS	150

**MATERIALS FOR GATES AND HOISTS
FOR THE YEAR : 2016-17**

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	Worm reducers	Each	224,400
2	Electric motor 20 hp(Double Shaft)	Each	121,000
3	Electric motor 17.5 hp(Double Shaft)	Each	85,800
4	Electric motor 12.5 hp(Double Shaft)	Each	72,600
5	Electric motor 5 hp(Double Shaft)	Each	33,000
6	Electric motor 3 hp (Double Shaft)	Each	23,100
7	Electric motor 2 hp (Double Shaft)	Each	12,100
8	Floating shaft 300 mm dia	Kg	180
9	Manual operating system	Each	28,820
10	Gate position indicator	Each	195,800
11	Ele-magnetic brake	Each	35,200
12	Electric cable / switch / control panel etc	LS	50,380
13	Wire rope sockets	Each	4,620

HIRE CHARGES

HIRE CHARGES OF PLANT & MACHINERY FOR THE YEAR: 2016-17

S.No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
1	2	3	4	5	6	7
1	Agitator car / Transit mixer 2 cum	Hour	745.50	888.10	285.50	1919.10
2	Air compressor 5 cmm (electric)	Hour	105.80	259.80	164.80	530.40
3	Air compressor 7 cmm (diesel)	Hour	237.00	726.70	210.90	1174.60
4	Air compressor 7 cmm (electric)	Hour	128.90	346.40	164.80	640.10
5	Air compressor 8.5 cmm (diesel)	Hour	270.70	908.30	210.90	1389.90
6	Air compressor 8.5 cmm (electric)	Hour	167.00	433.10	164.80	764.90
7	Air compressor 15 cmm (electric)	Hour	134.00	962.30	175.80	1272.10
8	Angle Dozer 90 hp	Hour	1690.40	621.30	237.90	2549.60
9	Batching plant 0.5 cum(6 cum/hr)	Hour	110.80	115.50	342.50	568.80
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	392.00	346.40	342.50	1080.90
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	500.90	423.40	342.50	1266.80
12	Bending machine 3000 x 12 mm	Hour	41.20	115.50	131.80	288.50
13	Clamp shell and hoisting ropes	Hour	5.40	0.00	0.00	5.40
14	Concrete bucket 1.5 cum	Hour	15.60	0.00	0.00	15.60
15	Concrete hand mixer 45 / 30 ltr	Hour	5.50	0.00	0.00	5.50
16	Concrete mixer 300 / 200 (diesel)	Hour	52.80	80.70	219.70	353.20
17	Concrete mixer 300 / 200 ltr (electric)	Hour	51.00	38.50	219.70	309.20
18	Concrete mixer 600 / 400 (diesel)	Hour	91.40	161.50	219.70	472.60
19	Concrete mixer 600 / 400 ltr (electric)	Hour	89.70	77.00	219.70	386.40
20	Concrete paver 100 sqm / hr	Hour	346.50	0.00	421.80	768.30
21	Convey mucker	Hour	807.60	267.90	175.80	1251.30
22	Core drilling machine	Hour	312.80	242.20	285.50	840.50
23	Diesel generating set 30 KVA	Hour	64.50	645.90	131.80	842.20
24	Diesel generating set 50 KVA	Hour	83.40	968.90	131.80	1184.10
25	Diesel Loco 45 hp	Hour	374.30	545.00	164.80	1084.10
26	Dewatering pump 5 hp (diesel)	Hour	10.00	80.70	111.10	201.80
27	Dewatering pump 5 hp (electric)	Hour	2.90	38.50	83.30	124.70

S.No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
28	Dewatering pump 10 hp (diesel)	Hour	15.00	161.50	111.10	287.60
29	Dewatering pump 10 hp (electric	Hour	6.60	77.00	83.30	166.90
30	Dewatering pump 20 hp (diesel)	Hour	47.40	323.00	111.10	481.50
31	Dewatering pump 20 hp (electric	Hour	11.90	154.00	83.30	249.20
32	Drifter	Hour	315.40	0.00	356.90	672.30
33	Drilling jumbo	Hour	362.80	43.60	175.80	582.20
34	Dumper 4.5 cum	Hour	573.50	406.90	228.40	1208.80
35	Geophysical Electric resistivity meter	Hour	97.60	0.00	0.00	97.60
36	Grouting pump	Hour	24.30	38.50	263.60	326.40
37	Guniting / sand blast equipment	Hour	108.70	0.00	219.70	328.40
38	Ice plant & accessories 30 t / day	Hour	164.20	1097.10	131.80	1393.10
39	Jack hammer	Hour	19.40	0.00	329.60	349.00
40	Needle vibrator 40 mm (petrol)	Hour	7.60	18.20	158.20	184.00
41	Needle vibrator 40 mm (electric)	Hour	7.90	7.70	158.20	173.80
42	Needle vibrator 60 mm (petrol)	Hour	8.10	27.30	158.20	193.60
43	Needle vibrator 60 mm (electric)	Hour	9.60	11.50	158.20	179.30
44	Planing machine 4 m stroke	Hour	114.50	115.50	210.90	440.90
45	Plate shearing machine upto 12 mm	Hour	40.80	154.00	142.70	337.50
46	Pneumatic placer 0.5 cum	Hour	168.90	0.00	86.80	255.70
47	Pneumatic tamper	Hour	20.30	0.00	263.60	283.90
48	Pug cutting machine	Hour	6.30	3.80	0.00	10.10
49	Pusher leg	Hour	12.40	0.00	0.00	12.40
50	Road roller diesel 10 t	Hour	193.40	726.70	210.90	1131.00
51	Shovel 0.50 cum 75 hp	Hour	985.90	484.40	237.90	1708.20
52	Shovel 0.85 cum 110 hp	Hour	1677.40	888.10	237.90	2803.40
53	Stationery derrick crane	Hour	83.90	0.00	0.00	83.90
54	Tipper 5 cum	Hour	440.50	305.20	178.40	924.10
55	Tipping tub 1.5 cum	Hour	63.30	0.00	0.00	63.30
56	Tower crane 5 tonne	Hour	840.90	200.20	190.30	1231.40
57	Transformer 250 KVA	Hour	4852.10	0.00	0.00	4852.10
58	Truck 10 t	Hour	408.30	305.20	178.40	891.90

Machinery Hire Charges– Common SoR 2016-17

S.No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
59	Truck mounted derrick crane 5 t	Hour	512.30	305.20	178.40	995.90
60	Upright drilling machine/Grinder	Hour	22.10	38.50	200.90	261.50
61	Ventilation fan 20 hp	Hour	11.20	154.00	28.70	193.90
62	Vibratory pad foot roller 8 t	Hour	1325.70	1049.60	263.60	2638.90
63	Wagon drill	Hour	184.80	0.00	285.50	470.30
64	Water tanker 8000 ltr	Hour	396.90	305.20	178.40	880.50
65	Welding set	Hour	15.60	92.40	0.00	108.00
66	Winch 35 hp (electric)	Hour	127.30	188.60	263.60	579.50
67	Tractor with 2T roller	Hour				345.00
68	Hydraulic Truck Crane 30T	Hour	3032.40	118.80	527.90	3679.10
69	Hydraulic Truck Crane 16T	Hour	2231.40	75.00	527.90	2834.30
70	Heavy Duty Airless Spray Painting Equipment	Hour	120.30			120.30

CONVEYANCE CHARGES OF MATERIAL

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2016-17

(COMMON TO ALL DEPARTMENTS)

LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE YEAR: 2016-17

1. For total lead up to 150 m (including initial lead) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for Preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative & includes previous km up to 5 kms
12. The lead & lift charges are inclusive of contractor's profit and overhead charges of 13.615%
13. During the BoCE meeting held on 26-05-2016, it is observed that in some of the estimates, Lead Charges are being added directly to the material basic rates for arriving the finished item rate. In view of that,

the BoCE has instructed to see that while arriving the finished item rate, the lead charges are to be added to the material basic rates only after deducting the provision of "Contractor's Profit and Overhead charges"

A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS BY HEAD LOAD FOR THE YEAR: 2016-17

SI No.	Total distance (Total lead includes initial lead)	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs/Cum	Cement / Reinforc e- ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab/ Late-rite / Wood Rs / cum
1	2	3	4	5
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	56.30	33.10	72.30
3	Total lead up to 150 m	113.60	66.30	144.60

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.

2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

3. The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charges

B. (LEAD) CONVEYANCE CHARGES FOR MACHINERY PER KILOMETER FOR TRANSPORTING MATERIALS BY TIPPERS AND TRUCKS EXCLUDING LOADING, UNLOADING AND IDLE HIRE CHARGES OF MACHINERY FOR THE YEAR: 2016-17

(No loading and unloading charges allowed for machinery loading and unloading)

SI No.	Distance	(Lead) charges for trucks and tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter	(Lead) charges for trucks and tippers for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks and tippers for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/ tonne	(Lead) charges for trucks and tippers per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for trucks and tippers per cu.meter water/ 1000 litres	(Lead) charges for trucks per 1000 nos. of bricks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	31.50	30.40	19.00	44.70	18.80	50.70
2	Lead up to 2 km	44.10	42.60	26.60	62.60	26.30	70.90

3	Lead up to 3 km	58.80	58.80	36.70	86.50	35.00	94.60
4	Lead up to 4 km	71.40	71.40	44.60	105.00	42.50	114.80
5	Lead up to 5 km	84.00	84.00	52.50	123.50	50.00	135.10
	for Every km beyond 5 km up to 30 km	12.60	12.60	7.90	18.50	7.50	20.30
	for Every km beyond 30 km	10.50	10.50	6.60	15.40	6.30	16.90

Note: The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charge

C. LOADING AND UNLOADING CHARGES BY MANUAL MEANS (idle hire charges of trucks are not added)

SI No.	Description of item	Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/100 0 No
1	2	3	4	5	6	7
1	Loading	18.90	37.80	62.40	74.80	52.00
2	Unloading	9.45	18.90	62.40	74.80	52.00

Note: The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charges.

D. LOADING AND UNLOADING CHARGES BY MANUAL MEANS (including idle hire charges of trucks)

SI No.	Description of item	Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/100 0 No
1	2	3	4	5	6	7
1	Loading	111.00	129.90	163.70	176.10	219.20
2	Unloading	40.00	64.95	163.70	176.10	219.20

Note: The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charges.

E. LOADING AND UNLOADING CHARGES BY MECHANICAL MEANS
(including idle hire charges of trucks)

SI No.	Description of item	Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum
1	2	3	4
1	Loading	51.90	103.60
2	Unloading	15.90	15.90

Note: The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charges

F. LIFT CHARGES FOR MATERIALS BY HEAD LOAD

SI No.	Total lift (Total lift includes initial lift)	Earth / Sand /Gravel Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs / cum	Cement / Reinforce - ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab / Laterite / Wood Rs / cum
1	2	3	4	5
1	Total lift up to 3 m (covered by item rate)	Initial lift	Initial lift	Initial lift
2	For Every 1.00 Lift beyond initial lift of 3 meters	6.60	4.80	8.80

Note: The lead & lift charges are inclusive of 13.615% Contractor Profit and Over Head charges

ROADS & BRIDGE WORKS

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Roads & Bridge Works	
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PREAMBLE

PREAMBLE

I.O AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Telangana State except Greater Hyderabad, (Upto a belt of 12 kms from Municipal corporation limits) and other corporations as notified by the Government from time to time.
 - (ii) 40% extra over the rates on labour component of works for Greater Hyderabad, Corporation limits (Upto a belt of 12 kms from Municipal corporation limits)
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms. from Municipal limits).

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

a. 20% over basic rates on labour component works allowed for works situated within 10 Kms belt of Industrial area of, Jeedimetla, Lingampally, Ibrahimpatnam, Tandur in Ranga Reddy District, Kothur in Mahabubnagar District, Patancheru, Ramachandrapur in Medak District, Bibinagar in Nalgonda District, Ramagundam and Godavarikhani in Karimnagar District, Manchiryal, Mandamarri, Bellampalli in Adilabad District, Sarpaka, Kothagudem, Paloncha, Manguguru, Singareni Collieries in Khammam District, Kamalapur, Bhoopalpally of Warangal District, Wadepally of Nalgonda District, Nagapally (Centenary Colony, Begumpet "X" roads) Takkalapally of Karimnagar District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra allowed for the works located within the interior Agency/Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather routes inside Agency / Tribal.
- b) 40% extra allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Foot Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note below area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

2.0 WATER LEADS:

The following labour is allowed for conveyance of water for every ½ Kilometer lead or part there of over the initial lead of ½ kilometer.

a) Cement concrete : 1.5 Women

Mazdoor/cum Cum. b) Masonry :

1.0 Woman Mazdoor/ Cum.

c) Plastering : 0.5 Woman Mazdoor/ 10 Sq.m

Note:- For Water leads of over 2 KMs, specific approval of Chief Engineer concerned is necessary.

**3.0 EXCAVATION OF TRIAL TRENCHES,
TRIAL PITS AND EXCAVATION IN**

RESTRICTED PLACES: -

I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

A. TRIAL TRENCHES:

1) Trial trenches of not more than 2 metres in width ...25% extra

B. TRIAL PITS:

- | | | |
|-------------------------------|-----|------------|
| 1) Up to 2 Metres depth | ... | 25% extra |
| 2) 2 Metres to 4 Metres depth | ... | 50% extra |
| 3) 4 Metres to 6 Metres depth | ... | 75% extra |
| 4) 6 Metres to 8 Metres depth | ... | 100% extra |
| 5) 8 Metres to 9 Metres depth | ... | 150% extra |
| 6) More than 9 Metres depth | ... | 200% extra |

II) EXCAVATION IN RESTRICTED PLACES:-

- | | | |
|---|------------------------------------|------------|
| I) Foundation of Buildings | | 75% extra |
| II) For pipe lines where the depth is less
..... | 75% extra than 1.5 times the width | |
| III) For pipe lines where the depth is
1.5 times or more than the width | | 120% extra |
| IV) Silt removal in restricted areas such
U. T's., Culverts and Syphons. | ... | 120% extra |
| V) Excavation of field channels | ... | 75% extra |
| VI) For narrow trenches not more than
2 meters in width and depth not less
than twice the width and for excavation
of road boundary drains, model sections
of canals. | ... | 75% extra |
| VII) High berm cutting of not more than
150 mm average thickness and
sectioning for roads | ... | 50% extra |

Note: 1) The extra percentage is allowed over rate for corresponding soil. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component

which may be taken as 1/3 of the cost.

4.0 Proportion of First class and 2nd class workmen under Skilled Labour:

30% of the skilled labour provided in the data may be taken as 1st Class and the remaining 70% as 2nd Class.

5.0 Revetment and apron works:

- I) The size of stone for the volume range (0.015 to 0.030 Cum) shall not be less than (0.30 X 0.30 X 0.15 to 0.30 X 0. 225 X 0.225m)
- II) The size of stone for the volume range (0.011 to 0.015 Cum) shall not be less than (0.30 X 0.225 X 0.15 to 0.225 X 0.225 X 0.225 m)
- III) The rate of labour component as per the standard data book is to be adopted for revetment work only. However for apron work Rs. 3.00 per cum should be deducted.
- IV) For the labour for the "Rock Toe" shall be taken as 2/3rd of the labour charges of revetment as Chief Engineer, Circular No. P3/ OT2/ T3/ 65167/78, Dt: 19.03.1980.

7.0 The conveyance of bitumen for bulk and packed may be admitted as follows:

Packed --- Rs. 1.75per Km/ MT

Bulk --- Rs. 1.50 per Km/ MT (round the trip)

8.0 SEIGNIORAGE CHARGES:

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.67 (industries and commerce department), dated 26.09.2015 may be added in the data of rates in the estimate. The Provision towards Contractor's Profit and Overhead charges should not be operated on the Seigniorage Charges while adding Seigniorage Charges to the data in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

9.0 EARTH WORK EXCAVATION BY MACHINERY:

For items of Earth work excavation by machinery, the rates shall be adopted as per MoRTH Standard Data.

Sl.no	S.S. Item No.	Description	Unit (Per)	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
(A) SKILLED WORKMEN					
		First Class			
1	a	Mason and stone cutter	Day	445	As per I&CAD (S.No.39)
2	b	Brick Layer	Day	445	As per I&CAD (S.No.11)
3	c	Carpenter	Day	480	As per I&CAD (S.No.4)
4	d	Painter	Day	515	As per I&CAD (S.No.35)
5	e	Plumber	Day	515	As per I&CAD (S.No.36)
6	f	Welder	Day	445	As per I&CAD (S.No.41)
7	g	Fitter	Day	480	As per I&CAD (S.No.6)
8	h	Electrician	Day	515	As per I&CAD (S.No.5)
9	1	Cook	Day	410	As per I&CAD (S.No.2) Other Category
10	2	Mechanic	Day	480	As per I&CAD (S.No.12)
11	5	Well Sinker	Day	480	
12	6	Blaster	Day	515	As per I&CAD (S.No.3)
13	3	Barbender	Day	565	As per I&CAD (S.No.1)
14	7	Tipper and Heavy Vehicle Driver above 12 T	Day	515	As per I&CAD (S.No.15)
15		Road Roller Driver (7.5 T to 12 T)	Day	445	As per I&CAD (S.No.27)
		<u>Operator</u>			
16		Concrete Mixer	Day	445	As per I&CAD (S.No.16)
17		Vibrator	Day	445	As per I&CAD (S.No.32)
18		Jack Hammer	Day	445	As per I&CAD (S.No.23)
19		Driller	Day	515	As per I&CAD (S.No.34)
20	11	Pump operator	Day	445	As per I&CAD (S.No.24)

Sl.no	S.S. Item No.	Description	Unit (Per)	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
21	13	Wireless Operator	Day	510	As per I&CAD (S.No.12) Other Category
22	15	Jeep Driver	Day	500	As per I&CAD (S.No.15) Other Category
23	16	Work Inspector with I.T.I qualification	Day	510	As per I&CAD (S.No.9) Other Category
24	17	Work Inspector with LCE, LME,L.E.E qualification	Day	650	As per I&CAD (S.No.4) Other Category
25	18	Work Inspector with B.E (Civil Mechanical and Electrical qualification	Day	870	As per I&CAD (S.No.7) Other Category
26	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	460	As per I&CAD (S.No.10)
27	27 a(i)	Typist/Job Typist	Day	510	As per I&CAD (S.No.13) Other Category
28	a (ii)	Computer operator	Day	560	As per I&CAD (S.No.11) Other Category
29	b	"CAD Operator with Diploma in Engineering /General degree with CAD certificate"	Day	700	As per I&CAD (S.No.14) Other Category
(B) SEMI –SKILLED WORKMEN				-	
		SECOND CLASS			
30	1	Mason	Day	405	As per I&CAD (S.No.35) Semi-Skilled
31	b	Brick Layer and Stone Cutter	Day	405	As per I&CAD (S.No.35) Semi-Skilled
32	c	Carpenter	Day	405	As per I&CAD (S.No.4) Semi-Skilled

Sl.no	S.S. Item No.	Description	Unit (Per)	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
33	d	Painter	Day	405	As per I&CAD (S.No.37) Semi-Skilled
34	10	Telephone Operator	Day	510	As per I&CAD (S.No.12) Other Category
35	13	Hammer Man	Day	400	As per I&CAD (S.No.40) Semi-skilled
36	17	Stone Packer	Day	450	
37	1	Head Mazdoor (Mukaddar)	Day	400	As per I&CAD (S.No.10) Semi Skilled
(C) UNSKILLED WORKMEN					
38	2	Man Mazdoor	Day	350	As per I&CAD (S.No.3) Un-Skilled
39	3	Watch Man	Day	350	As per I&CAD (S.No.5) Un-Skilled
40	5	Woman Mazdoor	Day	350	As per I&CAD (S.No.4) Un-Skilled
Note : Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double of the above wages.					
(D) OTHER CONVEYANCE ITEMS					
41	1	Single bullock with driver and cart	Day	430	As per I&CAD (S.No.6) Semi Skilled
	2	Bullock pair with driver	Day	Item may be deleted	
42	3	Bullock pair with driver and cart	Day	460	As per I&CAD (S.No.5) Semi Skilled
43	6	Nava with crew	Day	420	As per I&CAD (S.No.3) Semi Skilled
Note :-					

1) The wage should not be less than the minimum wages of schedule of employment, subject to out turn.

2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Hyderabad Municipal Corporation only.

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		(A) STONE AND ROAD MATERIALS			
		ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING			
1	22.a	For R.R Masonary Work (other than Granite, Dolomite and Trap	1 cum	160	Retained as per SoR 2015-16
2	b.i	For SS Revetment work 225 mm	1 cum	160	do
3	b.ii	For SS Revetment work 300 mm	1 cum	164	do
4	b.iii	For SS Revetment work 450 mm	1 cum	136	do
5	c	Jeddy Stone above 450 mm to 600 mm	1 cum	188	do
6	d I.	Laterite for revetment 225 mm	1 cum	118	do
7	d II.	Laterite for revetment 300 mm	1 cum	138	do
8	d.iii	Granite for SS revetment 225 mm	1 cum	154	do
9	d.iv	Granite for SS revetment 300 mm	1 cum	156	do
		Note:- Only when other than granite is not available			
10	e	Laterite for masonry	1 cum	136	do
11	f	Cyclopean stones above 0.2 cum	1 cum	254	do
12	g	For R.R.Masonry works (granite, dolomite and trap variety) including loading & unloading	1 cum	252	do
13		NOTE:- For items 22(a) to 22© ,22d.iii,22d.iv 22(f) and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	70	do
		COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS			
14	23.a	Granite, dolomite and trap	1 cum	262	do
15	b	For other varieties	1 cum	188	do
16	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1728	do
17		NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	74	do
18	28	Bond stones (600 x 200 x 200 mm)	each	30	do
19	b	Chainage stones and Centre line stones (750x150x150xmm)	each	37	do
	29 (a)	Kilometers stones (1100 x 370 x 250 mm)	each	Based on detailed analysis as per MoRTH/MoRD Data	
	b	5th Kilometers stones (1520 x 520 x 250 mm)	each		
	30 (a)	Hectometers stones (900 x 200 x 200 mm)	each		
20	31	Demarcation Stones (900 x 150 x 150 mm)	each	70	do
21	32.a	Guard Stones (1200 x 200 x 200 mm)	each	102	do
22	b	Guide Stones (800 x 150 x 150 mm)	each	70	do
23	c	Carving letters and figures in stone up to 100 mm size	each	8	do
24	d	Carving letters and figures in stone above 100 mm size	each	9	do
		HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING .			
25	33.a	- do - 6mm size (IS383,1970)	1 cum	532	do
26	b	- do - 10mm size (IS383,1970)	1 cum	692	do
27	c	- do - 12mm size (IS383,1970)	1 cum	822	do
28	d	- do - 20mm size (IS383,1970)	1 cum	916	do
29	e	- do - 25mm size (IS383,1970)	1 cum	874	do
30	f	- do - 40mm size (IS383,1970)	1 cum	532	do
31	g	- do - 50mm size (IS383,19705)	1 cum	456	do
32	h	- do - 60mm size (IS383,1970)	1 cum	419	do
33	l	- do - 65mm size (IS383,1970)	1 cum	379	do
34	j	- do - 75mm size (IS383,1970)	1 cum	304	do
35	k	- do - 75 to 100mm size (IS383,1970)	1 cum	248	do
36		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting		70	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
37		(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.		25%	do
38		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.		9.9	do
39		(4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made.		17	do
		SOFT BROKEN STONE SCREENED AND FREE FROM DUST			
40	33.l	- do - 40 mm size (IS383,1970)	1 Cum	123	do
41	33.m	- do - 50 mm size (IS383,1970)	1 Cum	111	do
42	33.n	- do - 60 mm size (IS383,1970)	1 Cum	87	do
43	33.o	- do - 65 mm size (IS383,1970)	1 Cum	78	do
44	33.p	- do - 75 mm size (IS383,1970)	1 Cum	73	do
		HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)			
45	33a	-do- 2.36 mm to 5 mm size (IRC, MORTH & MORD)	1 cum	320	
	b	-do- 5 mm to 7 mm size (IRC, MORTH & MORD)	1 cum	504	do
46	c	-do- 9.5 mm to 11.2 mm size (IRC, MORTH & MORD)	1 cum	656	do
47	d	-do- 12mm to 14 mm size (IRC, MORTH & MORD)	1 cum	717	
48	e	-do- 19 mm to 22 mm size (IRC,MORTH & MORD)	1 cum	864	
49	f	-do- 25 mm to 27 mm size (IRC,MORTH & MORD)	1 cum	824	
50	g	-do- 40 mm to 45 mm size (IRC , MORTH & MORD)	1 cum	500	
51	h	-do- 50 mm to 55 mm size (IRC,MORTH & MORD)	1 cum	456	do
52	i	-do- 60 mm to 63 mm size (IRC, MORTH & MORD)	1 cum	419	do
53	j	-do- 65 mm size (IRC ,MORTH & MORD)	1 cum	379	do
54	k	-do- 75 mm size (IRC,MORTH & MORD)	1 cum	304	do
55	1	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70	do
56	2	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	do
57	3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.9	do
58	4	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	17	do
		HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST			
59	33.q	- do - 10 mm size (IS383,1970)	1 Cum	386	do
60		-do- 9.5 mm to 11.2 mm size (IRC,MORTH & MORD)	1 Cum	386	do
61	r	- do - 12 mm size (IS383,1970)	1 Cum	362	do
62		-do- 12mm to 14 mm size (IRC , MORTH & MORD)	1 Cum	362	do
63	s	- do - 20 mm size (IS383,1970)	1 Cum	293	do
64		-do- 19 mm to 22 mm size (IRC,MORTH & MORD)	1 Cum	293	do
65	t	- do - 25 mm size (IS383,1970)	1 Cum	287	do
66	u	- do - 40 mm size (IS383,1970)	1 Cum	170	do
67		-do- 40 mm to 45 mm size (IRC , MORTH & MORD)	1 Cum	170	do
68	v	- do - 50 mm size (IS383,1970)	1 Cum	150	do
69		-do- 50 mm to 55 mm size (IRC,MORTH & MORD)	1 Cum	150	do
70	33.w	- do - 65 mm size (IS383,1970)	1 Cum	142	do
71		-do- 60 mm to 65 mm size (IRC, MORTH & MORD)	1 Cum	142	do
72	x	- do - 75 mm size (IS383,1970)	1 Cum	117	do
73		- do - 75 mm size (IRC ,MORTH & MORD)	1 Cum	117	do
74	y	- do - 75 to 100 mm size (IS383,1970)	1 Cum	92	do
75		- do - 75 to 100 mm (IRC, MORTH & MORD)	1 Cum	92	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		OTHER ITEMS			
76	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	101	do
77	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	75	do
78	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	95	do
79		NOTE:- (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23	1 Cum	70	do
80	z4	Soling stone of 150 mm size other than granite variety	1 Cum	66	do
81	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	41	do
82	z6	Field picked metal unbroken 20 mm size	1 Cum	55	do
83	z7	- do - 25 mm size	1 Cum	42	do
84	z8	- do - 40 mm size	1 Cum	48	do
85	z9	- do - 50 mm size	1 Cum	42	do
86	z10	- do - 60 mm size	1 Cum	36	do
87	z11	- do - 80 mm size	1 Cum	32	do
88		NOTE:- Add Rs. /- Per Cum for selection of stone and boulders from excavated spoil dumps for items 33 (Q) TO 33 Z , when this addition of Rs. /- Per cum is allowed deduction of Rs. /- per cum should invariably be made towards the metal or rubble if it is obtained from surface stone and boulders.		17	do
89	34	Gravel	1 Cum	103	do
90	35 a	Quarry rubbish	1 Cum	81	do
91	b	HBG Stone Chips 2.36mm and below	1 Cum	360	
92	36.a	Sand for mortar, ceiling coat including washing screening etc.,	1 Cum	760	As per I&CAD S.No 28 of Materials
93	36.b	Sand for Concrete	1 Cum	560	As per I&CAD S.No 27 of Materials
94	36.c	Sand for filling and blindage	1 Cum	560	As per I&CAD S.No 27 of Materials
95	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	35	do
		(C) LIME AND CEMENT			
96	40 to 41(c)				
97	42	Cement excluding cost of empty cement bags	Metric Tonne	Monthly Rates will be communicated by Govt.	
		NOTE: (1) The rate is material at site (No conveyance charges to be allowed) 2)As per the rates applicable to the District. 3) Least of the (1) and (2) above may allowed 4) The price of cement will be reviewed and fixed on monthly basis as per G.O.Ms.No.94 T,R&B Dept Dt16-4-2008 and rates will be communicated separately.			
98	42.a	Labour for mixing cement mortar	1 Cum	Based on detailed analysis as per	
99	b	Mixing of cement mortar by machine	1 Cum	MoRTH/MoRD Data	
100	c	Grinding lime mortar or Surkhi mortar	1 Cum	94	do
101	d	Shell lime slaked and screened	1 Cum	940	do
102	e	White cement	1 Kg.	31	As per building SSR 2016-17

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		(D) MORTARS			
103	43 to 45	Items 43 to 45			
		(E) METAL AND IRON WORKS			
104		Mild steel rods 6mm dia.	One Metric Tonne	Monthly Rates will be communicated by Govt.	
105		Mild steel flats	One Metric Tonne		
106		Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	One Metric Tonne		
107		High Yield Strength Deformed Bars	One Metric Tonne		
108		Mild Steel Plates	One Metric Tonne		
		NOTE: (1) The rate are inclusive of sales tax. 2) As per the rates applicable to the District. 3) Least of the (1) and (2) above may allowed 4) The prices of steel will be reviewed and fixed on monthly basis as per G.O.Ms.No.94 T,R&B Dept, Dt 16-4-2008 and rates will be communicated separately.			
		III RATES OF WORKS			
		(A) CLEARING SITE			
109	1.a	Clearing heavy Jungle	1 Sqm	Based on detailed analysis as per MoRTH /MoRD Data	
110	b	Clearing light Jungle	1 Sqm		
111	c	Clearing Scrub Jungle	1 Sqm		
112	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	3.7	do
113	2.a.i	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	19	do
114	ii	- do - 100 to 200 cm.	Each	44	do
115	2.b.i	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	46	do
116	ii	- do - 100 to 200 cm.	Each	48	do
117	2.c.i	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	24	do
118	ii	- do - 100 to 200 cm	Each	35	do
119	d.i	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	24	do
120	ii	- do - 100 to 200 cm	Each	30	do
121	e i	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	30	do
122	ii	- do - 100 to 200 cm	Each	46	do
123	iii	- do - above 200 cm	Each	75	do
124	f.i	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	24	do
125	ii	- do - 100 to 200 cm	Each	33	do
126	iii	- do - above 200 cm	Each	41	do
127	3.a	Uprooting and clearing prickly pear jungle	1 Sq.m	2.3	do
128	b	- do - under 2.5 meters height including burning and burying as directed.	1 Sq.m	3	do
129	c	- do - over 2.5 meters height including burning and burying with an initial lead of conveyance	1 Sq.m	3.5	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
130	4.a	Removing of natchu, goobi, thooti etc., from drains, channels including clearance if not more than 1 metre depth of water with an initial lead of 10 metres and lift of 2 metres.	1 Sq.m	1.9	do
131	b.i	Clearing alchi, tilla	1 Sq.m	3.8	do
132	b.ii	Removal of Jammu	1 Sq.m	3.3	do
133	c.i	Removal of imponea, cornea	1 Sq.m	3.6	do
134	c.ii	Removal of water hyacinth up to 30 cm thick.	1 Sq.m	3.7	do
135	c.iii	- do - more than 30 cm thick	1 Sq.m	5	do
136	d	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sq.m	1.4	do
		(B) DISMANTLING			
	5	DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.			
137	n.(i)	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	62.5	
		(C) QUARRYING AND BLASTING			
138	6	Blasting and removing hard granite measured in solid	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
	7	Drilling holes in hard granite or sheet rock			
	a)	Manually (Hand)			
139	i)	20 mm dia meter	1 RM	124	do
140	ii)	25 mm dia meter	1 RM	131	do
141	iii)	36 mm dia meter	1 RM	151	do
	b)	Pneumatic Compressor			
142	i)	20 mm dia meter	1 RM	140	do
143	ii)	25 mm dia meter	1 RM	152	do
144	iii)	36 mm dia meter	1 RM	165	do
	8	Grouting the holes with neat cement slurry excluding cost of steel			
145	i)	20 mm dia meter	1 RM	88	do
146	ii)	25 mm dia meter	1 RM	111	do
147	iii)	36 mm dia meter	1 RM	138	do
		(D) EARTH WORK			
148		NOTE:- 1. Standard Specification No.20-A requires breaking clods, ramming and sectioning of spoil bank etc.,		-	
149		2. Standard Specification No.20-B does not require that three items of work detailed above, but does require neat banking in accordance with the standard specification.		-	
150		3. A separate rate for these three items of work will not be necessary where the earth work is executed under the standard specification No. 20-A.		-	
151a		Allowances for Excavation and Forming Embankment:		-	
		(i) Top soil removal - up to 5%		-	
		(ii) Consolidation allowance to Proctor's Density - 10%		-	
		(iii) Shrinkage Allowance - 2 to 2.5%		-	
		(iv) Wastage- 1%		-	
		(v) Allowance for removal of boulders - Nil		-	
151b		Conveyance by Lorries not applicable to head leads		-	
		(vi) Clay 25%		-	

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		loamy, Red Earth, Gravel, Homogeneous soils- 18%		-	
		(vii) Allowance for compaction and Shrinkage- 12 to 12.5%		-	
		EARTH WORK EXCAVATION AND DEPOSITING ON BANK WITH AN INITIAL LEAD OF 10 METRES AND AN INITIAL LIFT OF 2 METRES IN CASE OF HEAD LEAD ONLY.		-	
152	8.a	Sand or loose soils wet sand not under water, silt in canals, channels and drains SS 20-A.	1 cum	-	
153	b	- do - 20-B	1 cum		
154	9.a	Loamy and Clayey soils like black cotton soils, red earth and ordinary	1 cum		
155	b	- do - 20-B	1 cum		
156	10.b	Slushy soil and silt clearance up to 0.60 metres depth SS 20-B	1 cum		
157	11.b	Clayey Soil in wet and slushy condition SS 20-B	1 cum		
158	12.a	Hard Gravelly Soils SS 20-A	1 cum		
159	b	- do - SS 20-B	1 cum		
160	13.a	Mixture of gravel and soft disintegrated rock like shales ordinary gravel, stoney earth and earth mixed with fair sized boulders SS 20-A	1 cum		
161	b	- do - 20-B	1 cum		
162	14	Soft disintegrated rock (removable by pick axes and crow bars)	1 cum		
163	15	Stone matrix	1 cum		
164	16	Hard disintegrated rock or soft rock or conglomerate rock etc., removable by pick axes and crow bars	1 cum		
165	17	Hard disintegrated rock or soft rock or conglomerate rock and Hard lime kankar requiring partial blasting.	1 cum		
166	18.a.i	Fissured and fractured rock and boulders up to 3 cum in size requiring blasting including stacking	1 cum		
167	a.ii	- do - Stacking is not done	1 cum		
168	18.b.i	Excavation of Nandyal Slabs more than 3 cum in size requiring blasting including stacking	1 cum		
169	b.ii	- do - Stacking is not done	1 cum		
170	19.a.i	Hard rock and boulders more than 3 cum in size requiring blasting including stacking	1 cum		
171	a.ii	- do - Stacking is not done	1 cum		
	a.iii	Hard rock and boulders more than 3 cum in size wherever quarrying is done by controlled blasting.	1 cum		
	a.iv	- do - Stacking is not done	1 cum		
172	19.b	Benching, chiseling, wedging and boring in rock in foundation grade levelling.	1 cum		
		FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM NOs 8-b to 15 ABOVE)		-	
173	20.a.i	Extra for every additional 10 metres lead or part there of over the initial lead for the first 3 extra leads	1 cum		
174	ii	-do- from 4 th extra lead to 6 th extra lead	1 cum		
175	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum		
		FOR HARD DISINTEGRATED ROCK (ITEM 16 TO 17 ABOVE)			
176	20bi	(Extra for every additional 10 metres lead or part there of) over the initial lead for the first 3 extra leads	1 cum		
177	ii	Extra for every additional 10 mtrs. Lead or part there of from 4 th extra lead to 6 th extra lead	1 cum		
178	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum		

Based on detailed analysis as per MoRTH /MoRD Data

Based on detailed analysis as per MoRTH /MoRD Data

Based on detailed analysis as per MoRTH /MoRD Data

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		FOR FISSURED AND FRACTURED HARD ROCK AND BOULDERS ETC., (ITEM 18 & 19 a ABOVE)		-	
179	20.c.i	(Extra for every additional 10 metres lead or part there of) over the initial lead for the first 3 extra leads	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
180	ii	Extra for every additional 10 mtrs. Lead or part there of from 4 th extra lead to 6 th extra lead	1 cum		
181	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum		
		FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM NOS 8-b to 15 ABOVE)		-	
182	21.a.i	Extra for every additional 1 metre lift or part there of over the initial lift for the first 3 extra lifts	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
183	ii	Extra for every additional 1 mtrs. lift or part there of from 4 th extra lift to 6 th extra lift	1 cum		
184	iii	-do- from 7 th extra lift and above	1 cum		
		FOR HARD DISINTEGRATED ROCK (ITEM 16 & 17 ABOVE)		-	
185	21.b. i	Extra for every additional 1 metres Lift or part there of over the initial lift for first 3 extra lifts	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
186	ii	Extra for every additional 1 mtrs. lift or part there of from 4 th extra lift to 6 th extra lift	1 cum		
187	21.b.iii	-do- from 7 th extra lift and above	1 cum		
		FOR FISSURED AND FRACTURED, HARD ROCK AND BOULDERS ETC.,(ITEM 18 TO 19 a ABOVE) .		-	
188	21.c.i	Extra for every additional lift of 1 metre or part there of over the initial lift for the first 3 extra lifts	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
189	ii	Extra for every additional lift of 1metre or part there of over from 4th extra lift to 6 th extra lift	1 cum		
190	iii	-do- from 7 th extra lift and above	1 cum		
		Note: The lift charges mentioned in SS item Nos 21a,21 b, and 21c under (D) Earth work are applicable to delifts also.			
191	22.a	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation by stone roller up to 1 tonne.	1 cum		
192	b	- do - with stone roller 2 tonnes or cattle treading	1 cum		
193	b(l)	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation by pneumatic tampers at 90% proctor's density.	1 cum		
194	c	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation of proctor's density with 8 to 10 tonne power roller including watering and conveyance of water for initial lead of 1/2 Kilometer.	1 cum		
195		Note: The element of Hire charges is Rs 51.76 per 10 cum corresponding to the hire charges of 8 to 10 Tonne power roller fixed at Rs. 2200 /- per day of 8 hours. The rate shall be increased when the element of hire charges increases for item No. 22 c above, if the roller is lent to the contractor at a rate of Rs 275/- per hour (i.e.,) Rs 2200 /- per day of 8 hours may be effected)			
196	22.d	Extra for every additional 1/2 km lead for water over the initial lead of 1/2 Km for consolidation of banks .	1 cum		

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
197	23.a	Benching old embankment slopes 0.45 x 0.45 metres.	1 RM		
198	23.b	Puddle wall work	1 cum		
199	24	Turfing slopes including watering for 3 months with initial lead for conveyance of water and grass for 1 hectometer.	1 Sq.m		
200	25	Refilling with the excavated sand complying with the standard specifications for filling foundations	1 cum		
201	26.a	Refilling with the excavated soils (other than sand) complying with the standard specifications for filling foundations.	1 cum		
202	b	Trimming of slopes of embankments and depositing the soils on the top of the bank.	1 cum		
203	c	Ploughing	1 Sq.m		
		(E) CONCRETE AND (G) STONE MASONRY		-	
203		SSI NOS 31a to 39 and SSI Nos. 60 to 87			
		Note:			
204		1. Add for vibrating concrete	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
205		2. Add for machine mixing of concrete.	1 cum		
206		3.Add where the power is available for operating the mixer, the rate is,	1 cum		
207	a 1	White washing and colour banding for guard and guide stones including cost of materials	each		
208	b 1	Screening sand and gravel	1 cum		
209	b 2	Screening chips and metal	1 cum		
210	c 1	Removing and refixing Hectometer or Demarcation stones	each		
		CENTERING CHARGES			
211	L 1	Centering charges for culvert slabs and other structures of 3 mts. span and above	1 cum		
212	L 2	Centering charges for bed blocks and culvert slabs and other structures of less than 3 mts. span.	1 cum		
		CENTERING CHARGES FOR MINOR AND MAJOR BRIDGE WORKS		-	
213	L3	For mass concrete piers, abutments and steining well curbs, well caps etc.,	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
214	L 4	For RCC piers, abutments, wing wall, steining, well curbs, well caps etc.,	1 cum		
215		NOTE:- The rates under L3 and L 4 are applicable to Roads and Buildings and Irrigation structures up to 2 metres width			
216	L 5	For RCC deck slabs	1 cum		
217	L 6	For RCC beams	1 cum		
218	L 7	For RCC hand rails	1 cum		
219	L 8	For CC pavements, wearing coats, approach, slabs, guide stone, J. M. stone etc.,	1 cum		
	n	Laying and fixing RCC Hume pipes in position including lifting, aligning etc., complete with (fixing) collars for the following diametres of pipes but excluding cost of materials (NP2 Class)		-	
220	n 1	250 mm diameter	1 Rm	Based on detailed analysis as per MoRTH /MoRD Data	
221	n 2	300 mm diameter	1 Rm		
222	n 3	450 mm diameter	1 Rm		
223	n 4	600 mm diameter	1 Rm		
224	n 5	750 mm diameter	1 Rm		
225	n 6	800 mm diameter	1 Rm		
226	n 7	1000 mm diameter	1 Rm		
227	n 8	1220 mm diameter	1 Rm		
228		Note:- For NP3 class 50% extra over the rates of NP2. Class may be allowed.			

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
		(S) ROAD WORK ITEMS			
		PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGEBUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OF GRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER (1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE.			
		(For a compact thickness)			
	1 (i)	HARD METAL			
229	a	40 mm thickness	10 sqm	Based on detailed analysis as per MoRTH /MoRD Data	
230	b	50 mm thickness	10 sqm		
231	c	75 mm thickness	10 sqm		
232	d	100 mm thickness	10 sqm		
	1 (ii)	For compact thickness of soft metal			
233	a	50 mm thickness	10 sqm	Based on detailed analysis as per MoRTH /MoRD Data	
234	b	75 mm thickness	10 sqm		
235	c	100 mm thickness	10 sqm		
236	2	Picking 5 to 100 mm old metalled surface and sectioning	10 sqm		
237	3	Picking gravelled surface 25 mm deep and levelling and sectioning	10 sqm		
238	4	Picking the existing B.T. surface and removal of chips	10 sqm		
239	5	Picking old metalled surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage and power roller rolling including hire charges of power roller rolling including hire charges of power roller (8 to 10 T) barricading and diversion of traffic and wetting the new consolidation for a fortnight (for compacted thickness of)			
		HARD METAL			
240	5 (a)	40 mm thickness	10 sqm	Based on detailed analysis as per MoRTH /MoRD Data	
241	(b)	50 mm thickness	10 sqm		
242	(c)	75 mm thickness	10 sqm		
243	(d)	100 mm thickness	10 sqm		
244	(e)	150 mm thick excluding hire charges	10 sqm		
		Spreading gravel watering with an initial lead of 2 hectometers and power roller (8 to 10 T) rolling excluding hire charges of power roller and barricading etc., (for a compact thickness of)			
245	6a	50 mm thickness	10 sqm	-	
246	b	75 mm thickness	10 sqm	-	
247	c	100 mm thickness	10 sqm	-	

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2016-17	Remarks
1	2	3	4	6	7
248	d	150 mm thickness	10 sqm	-	
249	7a	Blinding the road surface 6 mm thick with gravel or sand available at site after remaining loose stones including watering.	10 sqm	-	
250	b	-do- without watering	10 sqm	-	
251	8a	Blinding the road surface 6 mm thick with gravel or sand dug from road site including watering.	10 sqm	-	
252	b	-do- without watering	10 sqm	-	
253		Spreading gravel sand including watering and roller rolling (for compacted thickness of)		-	
254	9a	-do- 6mm to 20 mm thick	1 cum	-	
255	b	-do- from 20 to 25 mm thick	1 cum	-	
256	c	-do- from 25 to 40 mm thick	1 cum	-	
257	d	-do- from 40 to 50 mm thick	1 cum	-	
258	10	Picking 50 to 100 mm Old metalled surface, spreading metal and blindage watering tamping for patch repairs (labour only)	10 sqm	-	
259	11	Picking old metalled surface 50 to 100 mm deep spreading gravel watering and tamping (labour only)	10 sqm	-	
260	12	Levelling ruts and tamping gravelled roads	10 sqm	-	
261	13	Levelling ruts and tamping metalled roads	10 sqm	-	
262	14	Spreading gravel or sand including watering and rolling with hand roller irrespective of thickness in layer	10 cum	-	
263	15(i)	Carrying for water for WBM consolidation metal and blindage of 40 to 150 mm thickness for every one hectometer beyond initial lead of 2 hectometers beyond initial lead of 2 hectometers	10 sqm	-	
	(ii)	Rate towards the cost of water to be consumed for Cement Concrete Roads(including curing) under Greater Hyderabad Municipal Corporation limits only, subject to issue of certificate by the concerned Executive Engineer in charge of the work that water required for the work is to be purchased from other source.	1 sqm	-	
264		Gelatin(For MORTH data,for works of state & national high ways only)	Per Kg	Rate as per local Market	
265		Electric Detonators(For MORTH data,for works of state & national high ways only)	each		
266		Hot applied thermoplastic compound(For MORTH data, for works of state & national high ways only)	Per Litre		
267		Reflectionising glass beads of 2 mm thick(For MORTH data, for works of state & national high ways only)	Per Kg		
268		Road marking paint conforming to IS 164(For MORTH data, for works of state & national high ways only)	Per Kg		
		BAILING OUT WATER CHARGES FOR CD & CM WORKS (WHEREVER REQUIRED)		-	
267	l 14	For earth work excavation for foundations below low water level	1 cum	Based on detailed analysis as per MoRTH /MoRD Data	
268	l 15	For cement concrete for foundation below low water level	1cum		
269	n	Labour charges for laying filters with coarse aggregate.	1 cum		
270	o	Labour charges for laying filter with sand.	1 cum		
271		Jute Rope	Mtr	8.75	do
272		De bonding Strips	Mtr	11	do
273		Selent	Ltr	69.5	do
274		Ply sheet 125 micron	1 Sgm	18	do
275		Rural water table	1 kl	77	do

Sl. No.	Description		Unit	Hire Charges for 2016-17	Remarks
	Machine	Activity		(Rupees)	
1	2	3	4	6	7
1	Dozer(D 80)	Spreading	Per Hour	2561.8	Retained as per SoR 2015-16
		Cutting			
		Cleaning			
2	Dozer(D 50)	Spreading Cutting Cleaning	Per Hour	1570	do
3	Mortor Grader	Clearing	Per Hour	3216	do
		Spreading			
		GSB			
		WMM			
4	Hydraulic Excavator	Soil Ordinary	Per Hour	2821.5	do
		Soil Marshy			
		Soil unsuitable			
5	Front end loader	Soil loading	Per Hour	1646	do
		Aggregate loading	Per Hour		
6	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	924.1	As per I&CAD S.No. 54 (Hire Charges)
			Per Ton per Km	5	
7	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2638.9	As per I&CAD S.No. 62 (Hire Charges)
		WMM			
8	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1131	As per I&CAD S.No. 50 (Hire Charges)
9	Water tanker 8 Kilolitre	Water transport	Per Hour	880.5	As per I&CAD S.No. 64 (Hire Charges)
10	Water tanker 6 Kilolitre	Water transport	Per Hour	624	do
11	Tractor	Pulling	Per Hour	415	do
12	Tractor with rotavator	Scarifying	Per Hour	422	do
13	Tractor with ripper attachment	Scarifying	Per Hour	507.5	do
14	Air Compressor	General purpose	Per Hour	521.2	do
15	Wet mix plant 60 TPH	Wet mix	Per Hour	1646	do
16	Mechanical broom Hydraulic	Surface cleaning	Per Hour	357	do
17	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1498	do
18	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	860	do
19	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC	Per Hour	28175	do
		/Premix			
20	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC	Per Hour	24171	do
		/Premix			
21	Hot mix Plant – 60 TPH	DBM/BM/SDC	Per Hour	21668	do

Sl. No.	Description		Unit	Hire Charges for 2016-17	Remarks
	Machine	Activity		(Rupees)	
1	2	3	4	6	7
	capacity	/Premix			
22	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	19120	do
23	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3059.51	do
24	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2249	do
25	Hydraulic Chip Spreader	Surface dressing	Per Hour	2567	do
26	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1646	do
27	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1283	do
28	Pot-Hole repair machine	Repair of pot-holes	Per Hour	845	do
29	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	209	do
30	GSB Plant 50 Cum	Producing GSB	Per Hour	1143	do
31	Mastic Cooker	Mastic wearing coat	Per Hour	65	do
32	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1231.9	do
	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1080.9	As per I&CAD S.No. 10 (Hire Charges)
33	Transit mixer	Transportation of concrete mix	Per Hour	1917.5	do
34	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	803	do
35	Cranes				do
	(a) 80 tonnes	Lifting purpose	Per Hour	1171	do
	(b) 35 tonnes			791	do
	(c) 3 tonnes			352	do
	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2160	do
	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	3532	do
36	Concrete bucket	For pouring concrete	Per Hour	15.8	do
37	Kerb casting machine	Kerb making	Per Hour	311	do
38	Concrete mixer (a)0.28 cum	Concrete mixing	Per Hour	472.6	As per I&CAD S.No. 18 (Hire Charges)
	(b) 1.0 cum	Concrete mixing	Per Hour	649	do
39	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	5475	do
40	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	2900	do
41	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	8712	do
		Crushing of spalls 200 TPH	Per Hour	18369	do

Sl. No.	Description		Unit	Hire Charges for 2016-17	Remarks
	Machine	Activity		(Rupees)	
1	2	3	4	6	7
42	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	141	do
43	Generator	Generation of electric energy			
	250 KVA		per hour	1850	do
	125 KVA		per hour	1320	do
	100 KVA		per hour	1126	do
	30 KVA		per hour	842.2	As per I&CAD S.No. 23 (Hire Charges)
44	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	56	do
45	Truck tonnes	Material transport	Per Hour	891.9	As per I&CAD S.No. 45 (Hire Charges)
46	Road marking machine	Road marking	Per Hour	111	do
47	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1126	do
48	Plate compacter	For compacting in medians	Per Hour	48	do
49	Drilling equipment	For drilling	Per Hour	828	do

Note: The above hire charges of machinery & plant includes crew, oils, conveyance of machinery to site and all other incidental charges.

GOVERNMENT OF TELANGANA



BUILDINGS – SoR: 2016- 2017

COMMITTEE OF CHIEF ENGINEERS

SCHEDULE OF RATES
FOR
BUILDINGS WORKS

FOR THE YEAR 2016-2017
(Effective from 1st June,
2016)

ALL ENGINEERING
DEPARTMENTS

Procs. No. ENC(B)/DEE1/SAA3/B-SoR: 2016-17

Dt: 23-06-2016.

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works – Telangana Buildings-SoR:2016-17 – Communication of Buildings-SoR – Reg.,

Ref:- 1. G.O.Rt.No.471, T,R&B (R.1) Dept., Dt:20-04-2007.
2. Minutes of Committee of Chief Engineers meetings for finalizing the Building-SoRs held on Dt: 14-06-2016.

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The Government have constituted a Committee of Chief Engineers of Engineering departments dealing with Building works for finalizing and communicating Buildings-SoR (Civil & Electrical) vide G.O. 1st cited. In accordance therewith the Committee of Chief Engineers has finalized and approved the Telangana Buildings-SoR: 2016-17 in the Minutes of Meeting held on 14-06-2016.

The rates for the Building items (Civil, Water Supply & Sanitary and Electrical items) are to be followed henceforth by all the concerned departments for building works. The rates of Labour Rates, Common Material & Work items, Public Health items, Conveyance Rates of Materials & Hire charges of Telangana Common SoR-2016-17 remain unchanged. No other items other than the items communicated in this Buildings-SoR shall be introduced.

The Heads of Departments mentioned below are authorized to print the Telangana Buildings-SoR: 2016-17. The unauthorized printing & selling of the Buildings-SoR is strictly prohibited. The revised rates will come into force with immediate effect. The receipt of the proceedings may please be acknowledged.

Enclosed: Buildings SoR: 2016-17-CD as above

Sri. I. Ganapathi Reddy
Engineer-in-Chief (R&B)
NH, CRF, LWE & Buildings
Convener-Member,
Committee of Chief Engineers-Buildings-SoR

To

1. Engineer-in-Chief (R&B) (Admn & QC), Roads & Buildings Department, Errummanzil, Hyderabad-82.
2. Engineer-in-Chief (IW) I&CAD, Irrigation Department, Errummanzil, Hyderabad-82.
3. Engineer-in-Chief (R&B) (State Roads, CRN), Roads & Buildings Department, Errummanzil, Hyderabad-82.
4. Engineer-in-Chief (R&B) (Rural Roads, RDF), Roads & Buildings Department, Errummanzil, Hyderabad-82.
5. Engineer-in-Chief, (PHE) Public Health Engineering. Department, A,C, Guards, Hyderabad-4.
6. Engineer-in-Chief (Admn) Panchayat Raj Department, Errummanzil, Hyderabad-82.
7. Engineer-in-Chief, Tribal Welfare & Social Welfare Department, DSS Bhavan, Masab tank, Hyderabad.
8. Engineer-in-Chief, Greater Hyderabad Municipal Corporation (GHMC), CC Complex, Tankbund Road Hyderabad
9. Chief Engineer (R&B) (D&P) Roads & Buildings Department, Errummanzil, Hyderabad-82
10. Chief Engineer (Telangana State Housing Board) Gruhakalpa, Nampally, Hyderabad
11. Chief Engineer (Telangana State Housing Corporation) Urdugally, Himayatnagar, Hyderabad
12. Chief Engineer (TSSRTC), RTC 'X' Roads, Musheerabad, Hyderabad.
13. Chief Engineer (TSMCID), IIIrd Floor, DM&HS Campus, Sultanbazar, Koti, Hyderabad.
14. Chief Engineer (Telangana State Police Housing & Welfare Corporation), Lakdi-ka-pool, Hyderabad.
15. Superintending Engineer (R&B), Head Quarters Circle, Khairatabad, Hyderabad
16. Superintending Engineer (R&B), Electrical Circle, Errummanzil, Hyderabad-82.

INDEX FOR TELANGANA BUILDINGS SoR: 2016-17

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Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
A	SECTION		BRICKS & BUILDING BLOCKS		
			(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-A.I-01 - 02	ORDINARY CLAY BRICKS		
II	SUB-SECTION	TBSC-A.II-01 -14	FLY-ASH CEMENT/LIME SOLID BLOCKS		
III	SUB-SECTION	TBSC-A.III-01 - 04	AUTOCLAVED CONCRETE BLOCKS		
B	SECTION		NATURAL FLOORING STONES		
			(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-B.I-01-09	LOCALLY AVAILABLE FLOORING STONES		
II	SUB-SECTION	TBSC-B.II-01-04	NATURAL FLOORING STONES - MARBLE		
III	SUB-SECTION	TBSC-B.III-01-04	NATURAL FLOORING STONES - GRANITE		
C	SECTION		WALL & FLOOR TILES		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-C.I-01 -04	NON-PORCELAIN CERAMIC FLOOR TILES		
II	SUB-SECTION	TBSC-C.II-01-16	PORCELAIN VITRIFIED FLOOR TILES		
III	SUB-SECTION	TBSC-C.III-01-03	CERAMIC WALL TILES		
IV	SUB-SECTION	TBSC-C.IV-01-14	PORCELAIN WALL TILES		
V	SUB-SECTION	TBSC-C.V-01-04	GLASS MOSAIC TILES		
VI	SUB-SECTION	TBSC-C.VI-01-04	WALL CLADDING TILES		
VII	SUB-SECTION	TBSC-C.VII-01-03	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED)		
VIII	SUB-SECTION	TBSC-C.VIII-01-08	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
IX	SUB-SECTION	TBSC-C.IX-01-06	PRE-CAST CONCRETE BLOCKS FOR PAVING		
X	SUB-SECTION	TBSC-C.X-01-03	VINYL FLOORING		
D	SECTION		TIMBER & ROOFING MATERIALS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
			Note: Before proposing the Teak Wood Items, the estimating authorities shall obtain prior approval from the competent authority		
I	SUB-SECTION	TBSC-D.I-01-04	MEDIUM TEAK WOOD		
II	SUB-SECTION	TBSC-D.II-01-04	BEST TEAK WOOD		
III	SUB-SECTION	TBSC-D.III-01-04	BURMA TEAK WOOD		
IV	SUB-SECTION	TBSC-D.IV-01-02	ASSAM TEAK WOOD		
V	SUB-SECTION	TBSC-D.V-01-02	SAL/ COUNTRY WOOD		
VI	SUB-SECTION	TBSC-D.VI-01-19	ROOFING MATERIAL		
E	SECTION		STEEL MATERIALS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-E.I-01-15	MILD STEEL MATERIALS		
II	SUB-SECTION	TBSC-E.II-01-11	GALVANIZED STEEL MATERIALS		
III	SUB-SECTION	TBSC-E.III-01-02	STAINLESS STEEL MATERIALS		

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
F	SECTION		GLASS MATERIALS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-F.I-01-06	PLAIN GLASS PANES		
II	SUB-SECTION	TBSC-F.II-01-02	PIN HEADED GLASS PANES		
III	SUB-SECTION	TBSC-F.III-01-06	TINTED GLASS PANES		
IV	SUB-SECTION	TBSC-F.IV-01-02	FROSTED/ GROUND GLASS PANES		
V	SUB-SECTION	TBSC-F.V-01-05	TOUGHENED GLASS PANES		
G	SECTION		PAINTS & POLISHES		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-G.I-01-19	PRIMERS, FILLERS & BASES		
II	SUB-SECTION	TBSC-G.II-01-04	DISTEMPER PAINTS		
III	SUB-SECTION	TBSC-G.III-01-03	EMULSION BASED PAINTS		
IV	SUB-SECTION	TBSC-G.IV-01-02	SOLVENT BASED PAINTS		
V	SUB-SECTION	TBSC-G.V-01-02	OIL BASED ENAMEL PAINTS		
VI	SUB-SECTION	TBSC-G.VI-01-02	TEXTURE PAINTS		
VII	SUB-SECTION	TBSC-G.VII-01-04	SPECIAL PAINTS		
H	SECTION		PARTICLE BOARDS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-H.I-01-10	MELAMINE FACED PLAIN PARTICLE BOARD		
II	SUB-SECTION	TBSC-H.II-01-06	INSULATING PARTICLE BOARDS		
III	SUB-SECTION	TBSC-H.III-01-52	MEDIUM DENSITY FIBRE BOARDS		
IV	SUB-SECTION	TBSC-H.IV-01-25	CEMENT BONDED PARTICLE BOARDS		
J	SECTION		PLYWOODS, LAMINATES & VENEERS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-J.I-01-07	MOISTURE RESISTANT (MR) GRADE		
II	SUB-SECTION	TBSC-J.II-01-07	BOILING WATER RESISTANT (BWR) GRADE		
III	SUB-SECTION	TBSC-J.III-01-06	VENEERED DECORATIVE PLYWOOD		
IV	SUB-SECTION	TBSC-J.IV-01-06	LAMINATES		
V	SUB-SECTION	TBSC-J.V-01-02	COMMERCIAL VENEERS		
K	SECTION		CEILINGS, WALL PARTITIONS & WALL LININGS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-K.I-01-30	FALSE CEILINGs - TILES/ SHEETS		
II	SUB-SECTION	TBSC-K.II-01-24	FALSE CEILINGs - SECTIONS & ACCESSORIES		
III	SUB-SECTION	TBSC-K.III-01-12	WALL LINING & PANELLING		
IV	SUB-SECTION	TBSC-K.IV-01-18	PARTITIONS		
L	SECTION		DOORS, SHUTTERS & FRAMES		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-L.I-01-20	DOOR FRAMES		
II	SUB-SECTION	TBSC-L.II-01-26	DOOR SHUTTERS WITHOUT FRAMES		
III	SUB-SECTION	TBSC-L.III-01-28	DOORS WITH SHUTTERS & FRAMES		
IV	SUB-SECTION	TBSC-L.IV-01-04	CUP-BOARD DOORS		

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
M	SECTION		WINDOWS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-M.I-01-24	OPENABLE WINDOWS		
II	SUB-SECTION	TBSC-M.II-01-13	SLIDING WINDOWS		
III	SUB-SECTION	TBSC-M.III-01-08	VENTILLATORS		
N	SECTION		STRUCTURAL GLAZING & CURTAIN WALLING		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-N.I-01-04	FIXED GLAZING		
II	SUB-SECTION	TBSC-N.II-01-02	STRUCTURAL GLAING		
III	SUB-SECTION	TBSC-N.III-01-01	CURTAIN WALLING		
P	SECTION		FIXTURES FOR DOORS & WINDOWS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSC-P.I-01-18	TOWER BOLTS		
II	SUB-SECTION	TBSC-P.II-01-18	HINGES		
III	SUB-SECTION	TBSC-P.III-01-14	DOOR HANDLES		
IV	SUB-SECTION	TBSC-P.IV-01-09	ALDROPS		
V	SUB-SECTION	TBSC-P.V-01-08	LATCHES		
VI	SUB-SECTION	TBSC-P.VI-01-04	DOOR CLOSURES		
VII	SUB-SECTION	TBSC-P.VII-01-05	FLOOR SPRINGS		
VIII	SUB-SECTION	TBSC-P.VIII-01-02	MORTICE LOCKS		
IX	SUB-SECTION	TBSC-P.IX-01-09	OTHER ACCESSORIES		
Q	SECTION		CONSTRUCTION CHEMICALS & ADMIXTURES		
			Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.		
I	SUB-SECTION	TBSC-Q.I-01-06	PLASTICIZERS		
II	SUB-SECTION	TBSC-Q.II-01-06	WATER PROOFING COMPOUNDS		
III	SUB-SECTION	TBSC-Q.III-01-03	BONDING AGENTS		
IV	SUB-SECTION	TBSC-Q.IV-01-04	ANTI-CORROSIVE AGENTS		
V	SUB-SECTION	TBSC-Q.V-01-04	GROUTS		
VI	SUB-SECTION	TBSC-Q.VI-01-18	MISCELLANEOUS CHEMICALS		
VII	SUB-SECTION	TBSC-Q.VII-01-08	REPAIRING & TREATMENT WORKS		
VIII	SUB-SECTION	TBSC-Q.VIII-01-11	EXPANSION JOINTS		
R	SECTION	TBSC-R.I-01-51	MISCELLANEOUS ITEMS		
S	SECTION	TBSC-S.I-01-14	MACHINERY & OTHER HIRE CHARGES		
T	SECTION	TBSC-T.I-01-55	LABOUR CHARGES		
U	SECTION	TBSC-U.I-01-15	DISMANTLING		

PREAMBLE

1.0 INTRODUCTION

Ensuing the state bifurcation the Board of Chief Engineers has decided to have separate 'Schedule of Rates' specific to the new state of Telangana from this year. Accordingly the committee comprising of Chief Engineers of departments in-charge of execution of building works for finalization of Standard Schedule of Rates for Buildings (Electrical & Civil), constituted vide G.O. Rt. No: 471 TR&B (R-1) Dept., Dt. 20.4.2007, has agreed to have a separate 'Schedule of Rates' for Buildings (Civil & Electrical). The 2nd meeting of the above "SoR Committee for Telangana Buildings (Civil & Electrical)" was convened on 14-06-2016 with an objective to finalize and release the first Telangana Buildings-SoR: 2016-17.

2.0 APPLICABILITY OF COMMON SoR – 2016-17

The rates of labour, common materials & work items, Public Health items, conveyance rates of materials & hire charges approved and published in Common SoR-2016-17 remain applicable. The specifications, stipulations & all other conditions of Common-SoR other than those specified in this context remain applicable.

3.0 OVERHEADS & CONTRACTORS PROFIT

- a. 'Over Heads and Contractor's Profit @ 13.615%' shall be allowed in the data rates of all the building works where 'Contractors All Risk' policy is dispensed with.
- b. It is reiterated that the provision of 'Over Heads and Contractor's Profit' is applicable to Building works since the advent of the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009 and this component shall be operative on all the data items of the estimates and rates of the finished items published in Buildings SoR for original works subjected to the fulfilment of the conditions given below:
 - i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
 - ii. Office furniture, equipment and communications.
 - iii. Expenditure on:
 - a) Corporate office of contractor.
 - b) Technical agents for site supervision. (Reimbursement to the technical agents provision is dispensed with where 'over heads and contractor's profit' provision is included in the data rates)
 - c) Documentation and "as built" drawings.
 - d) Mobilization/ de-mobilization of resources.

- e) Labour camps with minimum amenities and transportation to work sites.
 - f) Light vehicles for site supervision including administrative and managerial requirements.
 - g) Laboratory equipment and quality control including field and laboratory testing. (For all the works costing more than Rs. 2.00 Crores contractors have to establish Quality Control laboratory)
 - h) Minor T & P and survey instruments and setting outworks, including verification of line, dimensions, etc.
 - i) Watch and ward.
 - j) Traffic management/ Safety management during construction.
 - k) Expenditure on safeguarding environment.
- iv. Sundries.
- v. Financing Expenditure.
- vi. Sales/ Turn over tax. (This is a material VAT component only, however the provision towards Works Contract Value Added Tax at 5% or as applicable on the finished work items as defined in APVAT Act-2005 shall be added in the estimates)
- i. Work Insurance/ compensation - Works insurance is dispensed with vide G.O. Ms. No: 61 Irrigation & CAD (PW:Reforms) Department Dt. 25-06-2013.

4.0 OTHER GUIDELINES

1. Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labour components of civil, water supply & sanitary items of building works shall be allowed wherever applicable as per the guidelines and preamble of Common SoR: 2016-17.
2. The Electrical items and corresponding rates as approved and proposed by the Superintending Engineer (R&B) Electrical shall be considered in the Buildings SoR-2016-17.
3. The Committee of Chief Engineers has agreed to approve the draft Telangana Buildings SoR:2016-17 based on the increase in rates of certain materials of items based on the market rates & Whole Sale Price Indices published by the Economic Advisor, Government of India.
4. The Committee has resolved to extend the 'Over Heads and Contractor's Profit @ 13.615%' in the data rates of all the building works including all Electrical and Water Supply & items on all original works subjected to the

fulfilment of the conditions given in the Preamble and the Guidelines published in the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009.

5.0 CONCLUSION

1. The Committee of Chief Engineers on Buildings-SoR: 2016-17 (Civil & Electrical) has met in the chambers of Chief Engineer (R&B) Buildings, on 14-06-2015 at 3.00 P.M., and approved the Telangana Buildings SoR:2016-17. The increase in rates of certain materials of items is considered based on the market rates & Whole Sale Price Indices published by the Economic Advisor, Government of India.
2. SSR Rates for Civil, Sanitary & water supply items are purely for the guidance of the officers in preparation of estimates vide Para 113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in Para 45 of APPWD code.
3. The rates published in the Buildings SoR are ceiling rates and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

CIVIL ITEMS

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
A	SECTION	BRICKS & BUILDING BLOCKS		
		(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)		
I	SUB-SECTION	ORDINARY CLAY BRICKS		
1	TBSC-A.I-01	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Non-Modular or traditional size 23 x 11 x 7 cm	Each	5.00
2	TBSC-A.I-02	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Modular or traditional size 19 x 9 x 9 cm	Each	6.00
II	SUB-SECTION	FLY-ASH CEMENT/LIME SOLID BLOCKS		
3	TBSC-A.II-01	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 225 x 140 mm	Each	25.00
4	TBSC-A.II-02	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 200 x 140 mm	Each	23.00
5	TBSC-A.II-03	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 150 x 140 mm	Each	20.00
6	TBSC-A.II-04	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 112/100 x 140 mm	Each	14.00
7	TBSC-A.II-05	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 225 x 100 x 60 mm	Each	7.00
8	TBSC-A.II-06	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 145 x 225 x 140 mm	Each	15.00
9	TBSC-A.II-07	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 145 x 200 x 140 mm	Each	12.00
10	TBSC-A.II-08	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 225 x 140 mm	Each	24.00
11	TBSC-A.II-09	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 200 x 140 mm	Each	19.00
12	TBSC-A.II-10	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 150 x 140 mm	Each	20.00
13	TBSC-A.II-11	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 112/100 x 140 mm	Each	11.00
14	TBSC-A.II-12	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 225 x 100 x 60 mm	Each	5.00
15	TBSC-A.II-13	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 145 x 225 x 140 mm	Each	12.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
16	TBSC-A.II-14	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 145 x 200 x 140 mm	Each	11.00
III	SUB-SECTION	AUTOCLAVED CONCRETE BLOCKS		
17	TBSC-A.III-01	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² (landing cost - including cost of conveyance, loading & unloading) 600 x 200 x 100 mm	Each	56.00
18	TBSC-A.III-02	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² (landing cost - including cost of conveyance, loading & unloading) 600 x 200 x 150 mm	Each	82.00
19	TBSC-A.III-03	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² (landing cost - including cost of conveyance, loading & unloading) 600 x 200 x 200 mm	Each	110.00
20	TBSC-A.III-04	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² (landing cost - including cost of conveyance, loading & unloading) 600 x 200 x 230 mm	Each	125.00
B	SECTION	NATURAL FLOORING STONES		
		(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)		
I	SUB-SECTION	LOCALLY AVAILABLE FLOORING STONES		
21	TBSC-B.I-01	Shahabad /Tandur Rough Stone slabs of all sizes up to 25 mm in thickness	1 Sqm	96.00
22	TBSC-B.I-02	Shahabad / Tandur Rough Stone slabs of all sizes between 25 mm - 40 mm thickness	1 Sqm	124.00
23	TBSC-B.I-03	Polished Shahabad/ Tandur stone slabs of all sizes between 15 - 18 mm thickness	1 Sqm	165.00
24	TBSC-B.I-04	Kadapa slabs of 40 mm thick of all sizes	1 Sqm	96.00
25	TBSC-B.I-05	Kadapa slabs of 50 mm thick of all sizes	1 Sqm	110.00
26	TBSC-B.I-06	Polished black Kadapa slabs of all sizes between 15 - 18 mm thickness	1 Sqm	138.00
27	TBSC-B.I-07	Polished black Kadapa slabs of all sizes between 25 - 30 mm thickness	1 Sqm	165.00
28	TBSC-B.I-08	Polished White Bethamcherla (marble type) stone of all sizes and between 22-25 mm thickness	1 Sqm	386.00
29	TBSC-B.I-09	Polished Coloured Bethamcherla (marble type) stone of all sizes and between 22-25 mm thickness	1 Sqm	276.00
II	SUB-SECTION	NATURAL FLOORING STONES - MARBLE		
30	TBSC-B.II-01	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes from 600 mm to 900 mm	1 Sqm	729.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
31	TBSC-B.II-02	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes up to 600 mm	1 Sqm	589.00
32	TBSC-B.II-03	Polished Marble slabs of any variety and gang saw cut (Such as Dongari/ Adanga/ Marodh/ Rajgangpur etc) 16 mm to 20 mm (average) thick (0.610 M width of any length)	1 Sqm	999.00
33	TBSC-B.II-04	Polished Marble Tiles of 8 - 10 mm thickness of all sizes and varieties	1 Sqm	476.00
III	SUB-SECTION	NATURAL FLOORING STONES - GRANITE		
34	TBSC-B.III-01	High Polished Granite 16 to 18 mm thick up to 8'-00 (2.43 M) other than black/ premium colours	1 Sqm	3,438.00
35	TBSC-B.III-02	High Polished Granite 16 to 18 mm thick up to 8'-00 (2.43 M) other than black and regular colours	1 Sqm	2,988.00
36	TBSC-B.III-03	High Polished Granite 16 to 18 mm thick up to 8'-00 (2.43 M) black	1 Sqm	2,540.00
37	TBSC-B.III-04	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 Sqm	1,165.00
C	SECTION	WALL & FLOOR TILES		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES		
38	TBSC-C.I-01	Supply of Non-skid red or white full body Ceramic floor tiles of size 300 x 300 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	450.00
39	TBSC-C.I-02	Supply of Non-skid red or white full body Ceramic floor tiles of size 400 x 400 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	530.00
40	TBSC-C.I-03	Supply of Non-skid red or white full body Ceramic floor tiles of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	550.00
41	TBSC-C.I-04	Supply of Non-skid red or white full body Ceramic floor tiles of scratch free-stain free and scratch free-nano finish of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	630.00
II	SUB-SECTION	PORCELAIN VITRIFIED FLOOR TILES		
42	TBSC-C.II-01	Supply of ordinary soluble salt porcelain vitrified tiles screen printed and polished of size 400 x 400 mm and thickness between 8-9 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	530.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
43	TBSC-C.II-02	Supply of soluble salt porcelain vitrified tiles screen printed and polished of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	600.00
44	TBSC-C.II-03	Supply of Nano polished /stain free soluble salt porcelain vitrified tiles screen printed of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	550.00
45	TBSC-C.II-04	Supply of Nano polished soluble salt porcelain vitrified tiles screen printed of size 800 x 800 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,123.00
46	TBSC-C.II-05	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	940.00
47	TBSC-C.II-06	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of size 800 x 800 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,200.00
48	TBSC-C.II-07	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of size 1000 x 1000 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,522.00
49	TBSC-C.II-08	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 800 x 800 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,039.00
50	TBSC-C.II-09	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 900 x 900 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,274.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
51	TBSC-C.II-10	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 1000 x 1000 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,500.00
52	TBSC-C.II-11	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 1200 x 600 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,200.00
53	TBSC-C.II-12	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 10-12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	800.00
54	TBSC-C.II-13	Supply of full body heavy duty industrial variety / tact porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,210.00
55	TBSC-C.II-14	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 18-20 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,390.00
56	TBSC-C.II-15	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 400 x 400 mm and thickness between 10 -12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	550.00
57	TBSC-C.II-16	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 600 x 600 mm and thickness between 10 - 12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,391.00
III	SUB-SECTION	CERAMIC WALL TILES		
58	TBSC-C.III-01	Supply of glazed red or white full body ceramic wall tiles of size 200 x 300 mm / 245 mm x 325 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	660.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
59	TBSC-C.III-02	Supply of glazed red or white full body ceramic wall tiles of size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	730.00
60	TBSC-C.III-03	Supply of glazed red or white full body ceramic wall tiles of size 300 x 600 mm and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	815.00
IV	SUB-SECTION	PORCELAIN WALL TILES		
61	TBSC-C.IV-01	Supply of glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	691.00
62	TBSC-C.IV-02	Supply of digital / polished glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	691.00
63	TBSC-C.IV-03	Supply of digital / polished glazed full body porcelain highlighter wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	795.00
64	TBSC-C.IV-04	Supply of screen printed glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	800.00
65	TBSC-C.IV-05	Supply of glazed full body porcelain wall tiles of size 400 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	986.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
66	TBSC-C.IV-06	Supply of glazed full body porcelain wall tiles of size 600 x 800 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 7-9 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,134.00
67	TBSC-C.IV-07	Supply of glazed full body porcelain premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 14-16 mm and wall tiles of thickness 8-10 mm but excluding highlighters 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,213.00
68	TBSC-C.IV-08	Supply of glazed full body porcelain premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 14-16 mm and wall tiles of thickness 8-10 mm but including highlighters 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,243.00
69	TBSC-C.IV-09	Providing and fixing wall dado with epoxy emulsion grout/ synthetic/ resin based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	331.00
70	TBSC-C.IV-10	Providing and fixing wall dado with cement based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	167.00
71	TBSC-C.IV-11	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with epoxy emulsion grout/ synthetic / resin adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles.	1 Sqm	349.00
72	TBSC-C.IV-12	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with cement based adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles .	1 Sqm	176.00
73	TBSC-C.IV-13	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with epoxy emulsion grout/ synthetic / resin based adhesive in width of 3-5 mm excluding cost of tiles.	1 Sqm	698.00
74	TBSC-C.IV-14	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with cement based adhesive in width of 3-5 mm excluding cost of tiles.	1 Sqm	352.00
V	SUB-SECTION	GLASS MOSAIC TILES		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
75	TBSC-C.V-01	Supply of glazed full body glass mosaic tiles of 20 x 20 x 4 mm thick in specified pattern 1st Quality of any colour and design	1 Sqm	1,310.00
76	TBSC-C.V-02	Providing Glass Mosaic tiles using specified pattern fixing in specified thick epoxy emulsion grout of epoxy resins and filler powder of approved colour grout including all taxes excluding cost of tiles	1 Sqm	294.00
77	TBSC-C.V-03	Providing Glass Mosaic tiles using specified pattern fixing in specified thick cementitious powder mix cement grout and approved colour grout including all taxes excluding cost of tiles	1 Sqm	113.00
VI	SUB-SECTION	WALL CLADDING TILES		
78	TBSC-C.VI-01	Supply of glazed full body porcelain tiles for external cladding purposes of any size and thickness between 6-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	750.00
79	TBSC-C.VI-02	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 5-7 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	430.00
80	TBSC-C.VI-03	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 10-12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	447.00
81	TBSC-C.VI-04	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 18-20 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	572.00
VII	SUB-SECTION	TERRAZZO FLOOR TILES (PLAIN & CHEQURED)		
82	TBSC-C.VII-01	Supplying precast terrazzo tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick white shades.	1 Sqm	288.00
83	TBSC-C.VII-02	Supplying precast terrazzo plain tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick any coloured shades.	1 Sqm	306.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
84	TBSC-C.VII-03	Supplying precast terrazzo chequered tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick of any coloured shades.	1 Sqm	314.00
VIII	SUB-SECTION	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
85	TBSC-C.VIII-01	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	270.00
86	TBSC-C.VIII-02	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	284.00
87	TBSC-C.VIII-03	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	288.00
88	TBSC-C.VIII-04	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	302.00
89	TBSC-C.VIII-05	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	314.00
90	TBSC-C.VIII-06	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	330.00
91	TBSC-C.VIII-07	Supply of high strength Cement Concrete plain Step tiles with edge half rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of regular colour, design and of 25 mm thickness	1 Sqm	471.00
92	TBSC-C.VIII-08	Supply of high strength Cement Concrete terrazzo/pre-polished/ chequered Step tiles with edge rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of any premium colour, design and of 25 mm thickness	1 Sqm	495.00
IX	SUB-SECTION	PRE-CAST CONCRETE BLOCKS FOR PAVING		
93	TBSC-C.IX-01	Supply of precast concrete blocks for paving of M-30 grade and thickness not less than 50 mm for Non-traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	335.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
94	TBSC-C.IX-02	Supply of precast concrete blocks for paving of M-35 grade and thickness not less than 60 mm for Light traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	362.00
95	TBSC-C.IX-03	Supply of precast concrete blocks for paving of M-40 grade and thickness not less than 80 mm for Medium traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	518.00
96	TBSC-C.IX-04	Supply of precast concrete blocks for paving of M-50 grade and thickness not less than 100 mm for Heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	571.00
97	TBSC-C.IX-05	Supply of precast concrete blocks for paving of M-55 grade and thickness not less than 120 mm for very heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	649.00
98	TBSC-C.IX-06	Labour charges for laying & fixing of precast concrete blocks for paving of all grades, any thickness, all sizes & shapes including all labour charges for loading & unloading, laying to desired lines and levels complete excluding cost of cement, sand, water, electricity etc	1 Sqm	207.00
X	SUB-SECTION	VINYL FLOORING		
99	TBSC-C.X-01	Vinyl Flooring Sheets/ tiles having a nominal total thickness of 2 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	850.00
100	TBSC-C.X-02	Vinyl Composition Floor Tiles of size 305 mm x 305 mm having an overall thickness of 2.0mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	582.00
101	TBSC-C.X-03	Vinyl Flooring Sheets or tiles having a nominal total thickness of 1.5 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	421.00
D	SECTION	TIMBER & ROOFING MATERIALS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
		Note: Before proposing the Teak Wood Items, the estimating authorities shall obtain prior approval from the competent authority		
I	SUB-SECTION	MEDIUM TEAK WOOD		
102	TBSC-D.I-01	Medium Teak Wood scantlings: up to 2.0 M	1 cum	80,094.00
103	TBSC-D.I-02	Medium Teak Wood scantlings: 2.0 to 3.0 M	1 cum	88,994.00
104	TBSC-D.I-03	Medium Teak Wood scantlings: above 3.0 M	1 cum	97,894.00
105	TBSC-D.I-04	Medium Teak Wood Planks: any thickness	1 cum	1,60,189.00
II	SUB-SECTION	BEST TEAK WOOD		
106	TBSC-D.II-01	Best Teak Wood scantlings: up to 2.0 M	1 cum	1,37,941.00
107	TBSC-D.II-02	Best Teak Wood scantlings: 2.0 to 3.0 M	1 cum	1,46,840.00
108	TBSC-D.II-03	Best Teak Wood scantlings: above 3.0 M	1 cum	1,55,740.00
109	TBSC-D.II-04	Best Teak Wood Planks: any thickness	1 cum	1,73,539.00
III	SUB-SECTION	BURMA TEAK WOOD		
110	TBSC-D.III-01	Burma Teak Wood scantlings: up to 2.0 M	1 cum	1,89,545.00
111	TBSC-D.III-02	Burma Teak Wood scantlings: 2.0 to 3.0 M	1 cum	1,94,959.00
112	TBSC-D.III-03	Burma Teak Wood scantlings: above 3.0 M	1 cum	2,05,056.00
113	TBSC-D.III-04	Burma Teak Wood Planks: any thickness	1 cum	2,22,040.00
IV	SUB-SECTION	ASSAM TEAK WOOD		
114	TBSC-D.IV-01	Assam Teak Wood scantlings: any length	1 cum	50,812.00
115	TBSC-D.IV-02	Assam Teak Wood Planks: any thickness	1 cum	73,679.00
V	SUB-SECTION	SAL/ COUNTRY WOOD		
116	TBSC-D.V-01	Sal Wood scantlings: any length	1 cum	49,394.00
117	TBSC-D.V-02	Sal Wood Planks: any thickness	1 cum	65,861.00
VI	SUB-SECTION	ROOFING MATERIAL		
118	TBSC-D.VI-01	A.C sheet Corrugated 6 mm thick	1 Sqm	222.00
119	TBSC-D.VI-02	A.C sheet plain 4 m thick	1 Sqm	159.00
120	TBSC-D.VI-03	A.C sheet plain 6 m thick	1 Sqm	165.00
121	TBSC-D.VI-04	Plain or Corrugated Galvanized iron sheets as per IS 277 (0.1 mm to 0.8 mm thickness)	1 kg	60.00
122	TBSC-D.VI-05	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	456.00
123	TBSC-D.VI-06	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	445.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
124	TBSC-D.VI-07	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	400.00
125	TBSC-D.VI-08	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	376.00
126	TBSC-D.VI-09	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.50mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	307.00
127	TBSC-D.VI-10	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.47mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	274.00
128	TBSC-D.VI-11	Supply of UV resistant multi-wall polycarbonate sheets for roofing of any colour - 6 mm thick	1 Sqm	1,290.00
129	TBSC-D.VI-12	Aluminium universal glazing set 40 mm wide for jointing and fixing polycarbonate sheets	1 RM	128.00
130	TBSC-D.VI-13	75 mm long screws -	1 Each	4.00
131	TBSC-D.VI-14	G.I scam bolts & nuts	1 Each	5.00
132	TBSC-D.VI-15	G.I bolts & nuts	1 Each	5.00
133	TBSC-D.VI-16	G.I 'J' bolts 8 mm Diameter	1 Each	10.00
134	TBSC-D.VI-17	G.I Washers	1 Each	1.00
135	TBSC-D.VI-18	Limpet washers (for scam & 'J' bolts)	1 Each	1.00
136	TBSC-D.VI-19	Bitumen washers	1 Each	1.00
E	SECTION	STEEL MATERIALS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	MILD STEEL MATERIALS		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
137	TBSC-E.I-01	Supply & fixing of Rolling shutter made of 80 x 1.25 mm machine rolled CRCA laths, interlocked together through their entire length and jointed together at the ends by end-locks, mounted on specially designed pipe shaft of 50mm Diameter nominal bore MS B class pipe with brackets, plates, guide channels, stoppers, bottom locking plates and arrangements for inside & outside locking with push-pull operations including cost of hood cover and springs complete, painted with one coat of approved steel primer, locks, ball bearings, all accessories etc complete for finished item of work as per special Spec: 1108	1 Sqm	3,576.00
138	TBSC-E.I-02	Supplying & fixing collapsible steel shutters with vertical, double channel of 20 x10x2 mm of 100 mm centre ,Bracers with flat iron 40x40x6 mm with 38 mm Diameter steel pulleys, the top, bottom and side vertical frames of the collapsible gate with 65x65mmx8mm MS Angle and middle guide rail at site height with 65mmx8mm MS flat for the pulleys to guide and fixed with necessary hold fasts, bolts, nuts, rivets, locking arrangements, stoppers, handles, all accessories all fixtures and painted with one coat of approved steel primer etc., complete for finished item of work as per special Spec 1105	1 Sqm	3,129.00
139	TBSC-E.I-03	Expanded metal sheets as per IS-412-1962- Light Weight-25 mm(SWM)x75 mm (LWM)3.25 mm Wide and 1.25 mm thick	1 Sqm	146.00
140	TBSC-E.I-04	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	146.00
141	TBSC-E.I-05	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	146.00
142	TBSC-E.I-06	Expanded metal sheets as per IS-412-1962- Medium Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 1.60 mm thick	1 Sqm	200.00
143	TBSC-E.I-07	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	200.00
144	TBSC-E.I-08	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	200.00
145	TBSC-E.I-09	Expanded metal sheets as per IS-412-1962- Heavy Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 2.24 mm thick	1 Sqm	228.00
146	TBSC-E.I-10	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	228.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
147	TBSC-E.I-11	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	228.00
148	TBSC-E.I-12	Rabbit wire mesh (chicken mesh) of not less than 30 gauge	1 Sqm	17.00
149	TBSC-E.I-13	Country Nails	1 Kg	61.00
150	TBSC-E.I-14	Wire Nails	1 Kg	61.00
151	TBSC-E.I-15	Mild Steel Tubes & pipes of all Diameters as per IS-1161	1 Kg	61.00
II	SUB-SECTION	GALVANIZED STEEL MATERIALS		
152	TBSC-E.II-01	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type A - IOWA Type Designation as per standard specification	1 Kg	82.00
153	TBSC-E.II-02	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type B - Glidden Type Designation as per standard specification	1 Kg	82.00
154	TBSC-E.II-03	Galvanized Iron fly proof wire mesh of not less than 20 gauge	1 Sqm	217.00
155	TBSC-E.II-04	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	477.00
156	TBSC-E.II-05	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	378.00
157	TBSC-E.II-06	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	322.00
158	TBSC-E.II-07	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	239.00
159	TBSC-E.II-08	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	575.00
160	TBSC-E.II-09	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	477.00
161	TBSC-E.II-10	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	393.00
162	TBSC-E.II-11	Hot dipped Galvanized Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	307.00
III	SUB-SECTION	STAINLESS STEEL MATERIALS		
163	TBSC-E.III-01	Stainless Steel Tubes, sections, plates, sheets & pipes of all sizes & Diameters for - 304 Grade	1 Kg	391.00
164	TBSC-E.III-02	Stainless steel fly proof wire mesh of not less than 20 gauge	1 Sqm	527.00
F	SECTION	GLASS MATERIALS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
I	SUB-SECTION	PLAIN GLASS PANES		
165	TBSC-F.I-01	Plain Float Glass 4 mm thick	1 Sqm	441.00
166	TBSC-F.I-02	Plain Float Glass 5 mm thick	1 Sqm	558.00
167	TBSC-F.I-03	Plain Float Glass 6 mm thick	1 Sqm	693.00
168	TBSC-F.I-04	Plain Float Glass 8 mm thick	1 Sqm	932.00
169	TBSC-F.I-05	Plain Float Glass 10 mm thick	1 Sqm	981.00
170	TBSC-F.I-06	Plain Float Glass 12 mm thick	1 Sqm	1,177.00
II	SUB-SECTION	PIN HEADED GLASS PANES		
171	TBSC-F.II-01	Pin headed Glass 4 mm thick	1 Sqm	331.00
172	TBSC-F.II-02	Pin headed Glass 5 mm thick	1 Sqm	430.00
III	SUB-SECTION	TINTED GLASS PANES		
173	TBSC-F.III-01	Tinted - Bronze/ Green Glass 4 mm thick	1 Sqm	515.00
174	TBSC-F.III-02	Tinted - Bronze/ Green Glass 5 mm thick	1 Sqm	644.00
175	TBSC-F.III-03	Tinted - Bronze/ Green Glass 6 mm thick	1 Sqm	772.00
176	TBSC-F.III-04	Tinted - Bronze/ Green Glass 8 mm thick	1 Sqm	1,104.00
177	TBSC-F.III-05	Tinted - Bronze/ Green Glass 10 mm thick	1 Sqm	1,287.00
178	TBSC-F.III-06	Tinted - Bronze/ Green Glass 12 mm thick	1 Sqm	1,546.00
IV	SUB-SECTION	FROSTED/ GROUND GLASS PANES		
179	TBSC-F.IV-01	Frosted / Ground Glass 4 mm thick	1 Sqm	594.00
180	TBSC-F.IV-02	Frosted / Ground Glass 5 mm thick	1 Sqm	747.00
V	SUB-SECTION	TOUGHENED GLASS PANES		
181	TBSC-F.V-01	Toughened Plain Glass 5 mm (including Glass)	1 Sqm	895.00
182	TBSC-F.V-02	Toughened Plain Glass 6 mm (including Glass)	1 Sqm	1,034.00
183	TBSC-F.V-03	Toughened Plain Glass 8 mm (including Glass)	1 Sqm	1,379.00
184	TBSC-F.V-04	Toughened Plain Glass 10 mm (including Glass)	1 Sqm	1,653.00
185	TBSC-F.V-05	Toughened Plain Glass 12 mm (including Glass)	1 Sqm	1,929.00
G	SECTION	PAINTS & POLISHES		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	PRIMERS, FILLERS & BASES		
186	TBSC-G.I-01	Supply of water based Cement Primer of Interior Grade- 1	1 Kg	165.00
187	TBSC-G.I-02	Supply of water based Cement Primer of Exterior Grade- 2	1 Kg	210.00
188	TBSC-G.I-03	Supply of wall putty of White Cement or Polymer or Cement based	1 Kg	45.00
189	TBSC-G.I-04	Acrylic spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to protect the material the acrylic binding medium used gives good surface adhesion any grade	1 Kg	70.00
190	TBSC-G.I-05	Supply of Red Oxide Primer Paint for iron works of Grade -1	1 Liter	142.00
191	TBSC-G.I-06	Supply of Zinc Chromate Yellow Oxide Primer paint for iron works	1 Liter	204.00
192	TBSC-G.I-07	Supply of Wood Primer	1 Liter	158.00
193	TBSC-G.I-08	Supply of Metal paste (Putty) for steel works	1 Kg	158.00
194	TBSC-G.I-09	Supply of Putty for wood work (Powder chalk)	1 Kg	158.00
195	TBSC-G.I-10	Supply of White Lead	1 Kg	113.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
196	TBSC-G.I-11	Supply of Synthetic clear Varnish	1 Liter	158.00
197	TBSC-G.I-12	Supply of Spirit	1 Liter	111.00
198	TBSC-G.I-13	Supply of Linseed Oil	1 Liter	63.00
199	TBSC-G.I-14	Supply of thinner for melamine polish/ French polish	1 Liter	146.00
200	TBSC-G.I-15	Supply of thinner for Poly-urethane polish	1 Liter	299.00
201	TBSC-G.I-16	Supply of French Polish	1 Liter	207.00
202	TBSC-G.I-17	Supply of ready made Wax Polish	1 Kg	630.00
203	TBSC-G.I-18	Supply of wood adhesive compound	1 Kg	246.00
204	TBSC-G.I-19	Supply of anti-corrosive grade - 1 bitumen paint of black colour	1 Liter	569.00
II	SUB-SECTION	LIME, DISTEMPERS & CEMENT PAINTS		
205	TBSC-G.II-01	Supply of paint grade lime for white / colour wash	1 Kg	24.00
206	TBSC-G.II-02	Supply of Dry Powder Distemper	1 Kg	47.00
207	TBSC-G.II-03	Supply of acrylic based Oil Bound washable Distemper	1 Kg	90.00
208	TBSC-G.II-04	Supply of Water proof Cement paint	1 Kg	55.00
III	SUB-SECTION	EMULSION BASED PAINTS		
209	TBSC-G.III-01	Supply of acrylic emulsion paint interior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	214.00
210	TBSC-G.III-02	Supply of acrylic emulsion paint exterior grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	225.00
211	TBSC-G.III-03	Supply of acrylic emulsion paint weather proof water-based, modified acrylic with silicon additives exterior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	248.00
IV	SUB-SECTION	SOLVENT BASED PAINTS		
212	TBSC-G.IV-01	Supply of solvent based latex paint having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	270.00
213	TBSC-G.IV-02	Supply of synthetic polymer luxury plastic emulsion / solvent based luster paint of superior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	473.00
V	SUB-SECTION	OIL BASED ENAMEL PAINTS		
214	TBSC-G.V-01	Supply of ready mixed Synthetic Enamel paints in all shades Grade - I having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	276.00
215	TBSC-G.V-02	Supply of ready mixed Synthetic Enamel paints in all shades Grade - II having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Liter	210.00
VI	SUB-SECTION	TEXTURE PAINTS		
216	TBSC-G.VI-01	Exterior grade Texture ready mixed paint with sand texture added sand particles Acrylic copolymers and mineral compounds, bactericides and various additives.	1 Kg	40.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
217	TBSC-G.VI-02	Exterior grade Texture ready mixed plaster made with natural minerals - granite flakes/ marble flakes/ powder, sand and other carefully selected and sieved minerals in an acrylic binding medium	1 Kg	52.00
VII	SUB-SECTION	SPECIAL PAINTS		
218	TBSC-G.VII-01	Supply of Melamine Polish	1 Liter	349.00
219	TBSC-G.VII-02	Supply of Interior Grade Poly-Urethane Polish	1 Liter	710.00
220	TBSC-G.VII-03	Supply of Exterior Grade Poly-Urethane Polish	1 Liter	868.00
221	TBSC-G.VII-04	Supply of grade-1 aluminium paint	1 Liter	284.00
H	SECTION	PARTICLE BOARDS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	MELAMINE FACED PLAIN PARTICLE BOARD		
222	TBSC-H.I-01	Melamine faced Single Deco Plain Particle Board- 8 mm thick conforming to IS 3129	1 Sqm	676.00
223	TBSC-H.I-02	Melamine faced Single Deco Plain Particle Board- 12 mm thick conforming to IS 3129	1 Sqm	767.00
224	TBSC-H.I-03	Melamine faced Single Deco Plain Particle Board- 18 mm thick conforming to IS 3129	1 Sqm	889.00
225	TBSC-H.I-04	Melamine faced Single Deco Plain Particle Board- 25 mm thick conforming to IS 3129	1 Sqm	1,007.00
226	TBSC-H.I-05	Melamine faced Single Deco Plain Particle Board- 35 mm thick conforming to IS 3129	1 Sqm	1,675.00
227	TBSC-H.I-06	Melamine faced Twin Deco Plain Particle Board- 8 mm thick conforming to IS 3129	1 Sqm	778.00
228	TBSC-H.I-07	Melamine faced Twin Deco Plain Particle Board- 12 mm thick conforming to IS 3129	1 Sqm	889.00
229	TBSC-H.I-08	Melamine faced Twin Deco Plain Particle Board-18 mm thick conforming to IS 3129	1 Sqm	1,028.00
230	TBSC-H.I-09	Melamine faced Twin Deco Plain Particle Board-25 mm thick conforming to IS 3129	1 Sqm	1,139.00
231	TBSC-H.I-10	Melamine faced Twin Deco Plain Particle Board-35 mm thick conforming to IS 3129	1 Sqm	2,140.00
II	SUB-SECTION	INSULATING PARTICLE BOARDS		
232	TBSC-H.II-01	Natural Colour-Insulating Board - 12 mm thick conforming to IS 3348	1 Sqm	252.00
233	TBSC-H.II-02	Natural Colour-Insulating Board - 18 mm thick conforming to IS 3348	1 Sqm	372.00
234	TBSC-H.II-03	Natural Colour-Insulating Board - 25 mm thick conforming to IS 3348	1 Sqm	474.00
235	TBSC-H.II-04	White Insulating Board - 12 mm thick conforming to IS 3348	1 Sqm	307.00
236	TBSC-H.II-05	White Insulating Board - 18 mm thick conforming to IS 3348	1 Sqm	439.00
237	TBSC-H.II-06	White Insulating Board - 25 mm thick conforming to IS 3348	1 Sqm	390.00
III	SUB-SECTION	MEDIUM DENSITY FIBRE BOARDS		
238	TBSC-H.III-01	Medium Fibre Board: Interior Grade - 6 mm thick conforming to IS 15932	1 Sqm	411.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
239	TBSC-H.III-02	Medium Fibre Board: Interior Grade - 8 mm thick conforming to IS 15932	1 Sqm	466.00
240	TBSC-H.III-03	Medium Fibre Board: Interior Grade - 12 mm thick conforming to IS 15932	1 Sqm	624.00
241	TBSC-H.III-04	Medium Fibre Board: Interior Grade - 15 mm thick conforming to IS 15932	1 Sqm	793.00
242	TBSC-H.III-05	Medium Fibre Board: Interior Grade - 18 mm thick conforming to IS 15932	1 Sqm	885.00
243	TBSC-H.III-06	Medium Fibre Board: Interior Grade - 25 mm thick conforming to IS 15932	1 Sqm	1,257.00
244	TBSC-H.III-07	Medium Fibre Board: Interior Grade - 30 mm thick conforming to IS 15932	1 Sqm	1,519.00
245	TBSC-H.III-08	Medium Fibre Board: Interior Grade - 35 mm thick conforming to IS 15932	1 Sqm	1,657.00
246	TBSC-H.III-09	Medium Fibre Board: Exterior Grade - 6 mm thick conforming to IS 15932	1 Sqm	559.00
247	TBSC-H.III-10	Medium Fibre Board: Exterior Grade - 8 mm thick conforming to IS 15932	1 Sqm	651.00
248	TBSC-H.III-11	Medium Fibre Board: Exterior Grade - 12 mm thick conforming to IS 15932	1 Sqm	862.00
249	TBSC-H.III-12	Medium Fibre Board: Exterior Grade - 15 mm thick conforming to IS 15932	1 Sqm	1,083.00
250	TBSC-H.III-13	Medium Fibre Board: Exterior Grade - 18 mm thick conforming to IS 15932	1 Sqm	1,212.00
251	TBSC-H.III-14	Medium Fibre Board: Exterior Grade - 25 mm thick conforming to IS 15932	1 Sqm	1,616.00
252	TBSC-H.III-15	Medium Fibre Board: Exterior Grade - 30 mm thick conforming to IS 15932	1 Sqm	2,013.00
253	TBSC-H.III-16	Medium Fibre Board: Exterior Grade - 35 mm thick conforming to IS 15932	1 Sqm	2,378.00
254	TBSC-H.III-17	MDF Board: Plain-Interior - 9 mm thick conforming to IS 15932	1 Sqm	377.00
255	TBSC-H.III-18	MDF Board: Plain-Interior - 12 mm thick conforming to IS 15932	1 Sqm	428.00
256	TBSC-H.III-19	MDF Board: Plain-Interior - 18 mm thick conforming to IS 15932	1 Sqm	530.00
257	TBSC-H.III-20	MDF Board: Plain-Interior - 25 mm thick conforming to IS 15932	1 Sqm	637.00
258	TBSC-H.III-21	MDF Board: Plain-Interior - 30 mm thick conforming to IS 15932	1 Sqm	970.00
259	TBSC-H.III-22	MDF Board: Plain-Interior - 35 mm thick conforming to IS 15932	1 Sqm	1,147.00
260	TBSC-H.III-23	MDF Board: Plain-Exterior - 9 mm thick conforming to IS 15932	1 Sqm	493.00
261	TBSC-H.III-24	MDF Board: Plain-Exterior - 12 mm thick conforming to IS 15932	1 Sqm	530.00
262	TBSC-H.III-25	MDF Board: Plain-Exterior - 18 mm thick conforming to IS 15932	1 Sqm	696.00
263	TBSC-H.III-26	MDF Board: Plain-Exterior - 25 mm thick conforming to IS 15932	1 Sqm	873.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
264	TBSC-H.III-27	MDF Board: Plain-Exterior - 30 mm thick conforming to IS 15932	1 Sqm	1,147.00
265	TBSC-H.III-28	MDF Board: Plain-Exterior - 35 mm thick conforming to IS 15932	1 Sqm	1,323.00
266	TBSC-H.III-29	MDF Board: Interior-One Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	591.00
267	TBSC-H.III-30	MDF Board: Interior-One Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	668.00
268	TBSC-H.III-31	MDF Board: Interior-One Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	777.00
269	TBSC-H.III-32	MDF Board: Interior-One Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	873.00
270	TBSC-H.III-33	MDF Board: Interior-One Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,262.00
271	TBSC-H.III-34	MDF Board: Interior-One Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,346.00
272	TBSC-H.III-35	MDF Board: Exterior-One Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	679.00
273	TBSC-H.III-36	MDF Board: Exterior-One Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	762.00
274	TBSC-H.III-37	MDF Board: Exterior-One Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	864.00
275	TBSC-H.III-38	MDF Board: Exterior-One Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,010.00
276	TBSC-H.III-39	MDF Board: Exterior-One Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,346.00
277	TBSC-H.III-40	MDF Board: Exterior-One Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,430.00
278	TBSC-H.III-41	MDF Board: Interior-Both Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	675.00
279	TBSC-H.III-42	MDF Board: Interior-Both Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	762.00
280	TBSC-H.III-43	MDF Board: Interior-Both Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	873.00
281	TBSC-H.III-44	MDF Board: Interior-Both Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,097.00
282	TBSC-H.III-45	MDF Board: Interior-Both Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,346.00
283	TBSC-H.III-46	MDF Board: Interior-Both Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,430.00
284	TBSC-H.III-47	MDF Board: exterior-Both Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	762.00
285	TBSC-H.III-48	MDF Board: exterior-Both Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	863.00
286	TBSC-H.III-49	MDF Board: exterior-Both Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	1,021.00
287	TBSC-H.III-50	MDF Board: exterior-Both Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,116.00
288	TBSC-H.III-51	MDF Board: exterior-Both Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,413.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
289	TBSC-H.III-52	MDF Board: exterior-Both Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,515.00
IV	SUB-SECTION	CEMENT BONDED PLAIN & PARTICLE BOARDS		
290	TBSC-H.IV-01	Cement Bonded Board conforming to IS:14862-2000 - 4mm Thick	1 Sqm	159.00
291	TBSC-H.IV-02	Cement Bonded Board conforming to IS:14862-2000 - 6mm Thick	1 Sqm	228.00
292	TBSC-H.IV-03	Cement Bonded Board conforming to IS:14862-2000 - 8mm Thick	1 Sqm	293.00
293	TBSC-H.IV-04	Cement Bonded Board conforming to IS:14862-2000 - 10mm Thick	1 Sqm	337.00
294	TBSC-H.IV-05	Cement Bonded Board conforming to IS:14862-2000 - 12mm Thick	1 Sqm	420.00
295	TBSC-H.IV-06	Cement Bonded Board conforming to IS:14862-2000 - 14mm Thick	1 Sqm	470.00
296	TBSC-H.IV-07	Cement Bonded Board conforming to IS:14862-2000 - 16mm Thick	1 Sqm	534.00
297	TBSC-H.IV-08	Cement Bonded Board conforming to IS:14862-2000 - 18mm Thick	1 Sqm	606.00
298	TBSC-H.IV-09	Cement Bonded Board conforming to IS:14862-2000 - 20mm Thick	1 Sqm	642.00
299	TBSC-H.IV-10	Cement bonded particle board conforming to IS 14276-6 mm thick	1 Sqm	248.00
300	TBSC-H.IV-11	Cement bonded particle board conforming to IS 14276- 8 mm thick	1 Sqm	334.00
301	TBSC-H.IV-12	Cement bonded particle board conforming to IS 14276- 10 mm thick	1 Sqm	420.00
302	TBSC-H.IV-13	Cement bonded particle board conforming to IS 14276- 12 mm thick	1 Sqm	511.00
303	TBSC-H.IV-14	Cement bonded particle board conforming to IS 14276- 16 mm thick	1 Sqm	689.00
304	TBSC-H.IV-15	Cement bonded particle board conforming to IS 14276- 20 mm thick	1 Sqm	829.00
305	TBSC-H.IV-16	Cement bonded particle board conforming to IS 14276- 25 mm thick	1 Sqm	1,049.00
306	TBSC-H.IV-17	Cement bonded particle board conforming to IS 14276- 30 mm thick	1 Sqm	1,259.00
307	TBSC-H.IV-18	Cement bonded particle board conforming to IS 14276- 40 mm thick	1 Sqm	1,679.00
308	TBSC-H.IV-19	Pre-laminated cement bonded particle board-6 mm thick	1 Sqm	579.00
309	TBSC-H.IV-20	Pre-laminated cement bonded particle board-8 mm thick	1 Sqm	626.00
310	TBSC-H.IV-21	Pre-laminated cement bonded particle board- 10 mm thick	1 Sqm	672.00
311	TBSC-H.IV-22	Pre-laminated cement bonded particle board- 12 mm thick	1 Sqm	735.00
312	TBSC-H.IV-23	Pre-laminated cement bonded particle board- 16 mm thick	1 Sqm	817.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
313	TBSC-H.IV-24	50 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1,071.00
314	TBSC-H.IV-25	75 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1,285.00
J	SECTION	PLYWOODS, LAMINATES & VENEERS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	MOISTURE RESISTANT (MR) GRADE		
315	TBSC-J.I-01	3 Ply - 4 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	407.00
316	TBSC-J.I-02	5 Ply - 6 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	449.00
317	TBSC-J.I-03	5 Ply - 8 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	528.00
318	TBSC-J.I-04	5 Ply - 9 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	528.00
319	TBSC-J.I-05	9 Ply - 12 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	662.00
320	TBSC-J.I-06	9 Ply - 15 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	975.00
321	TBSC-J.I-07	9 Ply - 18 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	956.00
II	SUB-SECTION	BOILING WATER RESISTANT (BWR) GRADE		
322	TBSC-J.II-01	3 Ply - 4 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	465.00
323	TBSC-J.II-02	5 Ply - 6 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	546.00
324	TBSC-J.II-03	5 Ply - 8 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	680.00
325	TBSC-J.II-04	5 Ply - 9 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	642.00
326	TBSC-J.II-05	9 Ply - 12 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	839.00
327	TBSC-J.II-06	9 Ply - 15 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	1,205.00
328	TBSC-J.II-07	9 Ply - 19 mm thick Plywood conforming to IS:303 BWR Grade	1 Sqm	1,209.00
III	SUB-SECTION	VENEERED DECORATIVE PLYWOOD		
329	TBSC-J.III-01	3 Ply-4 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	602.00
330	TBSC-J.III-02	5 Ply - 6 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	784.00
331	TBSC-J.III-03	5 Ply - 9 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	1,005.00
332	TBSC-J.III-04	9 Ply - 12 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	1,280.00
333	TBSC-J.III-05	5 Ply - 9 mm thick Both sides Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	1,311.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
334	TBSC-J.III-06	9 Ply - 12 mm thick Both sides Teak Veneered Decorative Plywood conforming to IS:1328	1 Sqm	1,529.00
IV	SUB-SECTION	LAMINATES		
335	TBSC-J.IV-01	Melamine Laminate Sheets - Glossy Finish: 1.00 mm thick	1 Sqm	403.00
336	TBSC-J.IV-02	Melamine Laminate Sheets - Glossy Finish: 1.50 mm thick	1 Sqm	577.00
337	TBSC-J.IV-03	Melamine Laminate Sheets - Glossy Finish: 1.80 mm thick	1 Sqm	633.00
338	TBSC-J.IV-04	Melamine Laminate Sheets - Mat Finish: 1.00 mm thick	1 Sqm	428.00
339	TBSC-J.IV-05	Melamine Laminate Sheets - Mat Finish: 1.50 mm thick	1 Sqm	596.00
340	TBSC-J.IV-06	Melamine Laminate Sheets - Mat Finish: 1.80 mm thick	1 Sqm	643.00
V	SUB-SECTION	COMMERCIAL VENEERS		
341	TBSC-J.V-01	Teak Veneer Lamination of 4 mm thick with Pencil Grains conforming to IS 14315	1 Sqm	450.00
342	TBSC-J.V-02	Teak Veneer Lamination of 4 mm thick with Natural Grains conforming to IS 14315	1 Sqm	829.00
K	SECTION	CEILINGS, WALL PARTITIONS & WALL LININGS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	FALSE CEILINGs - TILES/ SHEETS		
343	TBSC-K.I-01	Gypsum Board tiles of size not less than 0.595 M x 0.595 M of 12.5 mm thick as per IS 2095 -1992	1 Sqm	281.00
344	TBSC-K.I-02	Gypsum Board tiles of size not less than 0.595 M x 0.595 M of 9 mm thick as per IS 2095 -1992	1 Sqm	274.00
345	TBSC-K.I-03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 -1993	1 Sqm	248.00
346	TBSC-K.I-04	12 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	1 Sqm	456.00
347	TBSC-K.I-05	14 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 90% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	590.00
348	TBSC-K.I-06	15 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 95% RH, Average NRC 0.50, Light Reflectance >85%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	690.00
349	TBSC-K.I-07	16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.60, Light Reflectance >85%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	743.00
350	TBSC-K.I-08	Designer ceiling Cement Boards -thickness 3.2 mm	1 Sqm	259.00
351	TBSC-K.I-09	High pressure steam cured Cement Boards 4 mm thick	1 Sqm	138.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
352	TBSC-K.I-10	High pressure steam cured Cement Boards 6 mm thick	1 Sqm	208.00
353	TBSC-K.I-11	High pressure steam cured Cement Boards 8 mm thick	1 Sqm	276.00
354	TBSC-K.I-12	High pressure steam cured Cement Boards 10 mm thick	1 Sqm	346.00
355	TBSC-K.I-13	High pressure steam cured Cement Boards 12 mm thick	1 Sqm	415.00
356	TBSC-K.I-14	High pressure steam cured Cement Boards 14 mm thick	1 Sqm	484.00
357	TBSC-K.I-15	High pressure steam cured Cement Boards 16 mm thick	1 Sqm	554.00
358	TBSC-K.I-16	High pressure steam cured Cement Boards 18 mm thick	1 Sqm	622.00
359	TBSC-K.I-17	High pressure steam cured Cement Boards 20 mm thick	1 Sqm	692.00
360	TBSC-K.I-18	High pressure steam cured designer Cement Boards 4 mm thick	1 Sqm	204.00
361	TBSC-K.I-19	High pressure steam cured designer Cement Boards 6 mm thick	1 Sqm	300.00
362	TBSC-K.I-20	Calcium Silicate Boards - 6mm thick	1 Sqm	230.00
363	TBSC-K.I-21	Calcium Silicate Boards - 8mm thick	1 Sqm	307.00
364	TBSC-K.I-22	Calcium Silicate Boards - 10mm thick	1 Sqm	385.00
365	TBSC-K.I-23	Calcium Silicate Boards - 12mm thick	1 Sqm	461.00
366	TBSC-K.I-24	Supply of Thermocol 12 mm thick sheets	1 Sqm	26.00
367	TBSC-K.I-25	Supply of Thermocol 19 mm thick sheets	1 Sqm	46.00
368	TBSC-K.I-26	Supplying and fixing of false ceiling using Plaster of Paris Boards 12 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	441.00
369	TBSC-K.I-27	Supplying and fixing of false ceiling using Plaster of Paris Boards 10 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	367.00
370	TBSC-K.I-28	Supply and fixing false ceiling using 8 mm thick Cement Bonded particle boards conforming to IS 14276 with galvanized and pre painted steel T section of size 24mm x 38mm x 0.3 mm for main T duty pre punched to accept cross T section of size 24mm x 30mm x 0.3 mm duly punched at both ends for insertion into main T. The grid size will be 610mm x 610mm. The frame work (grid) is suspended to the roof by using G.I flat of 0.60mm or 14-gauge G.I wire with necessary fixers to the roof and frame work the cost is inclusive of necessary hardware, labor, one coat of primer (Both side) and two coats of smooth finish on visible side.	1 Sqm	1,257.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
371	TBSC-K.I-29	Providing and fixing false ceiling consisting of 600mmX600mm, Solid PVC insulation panels having wall thickness of 1mm thick plain PVC rigid foam sheet and EPS as defined in of desired thickness depending on insulation required shall be insert in a frame work made using anodized aluminium Tee section of sizes 1"X1" (25X25mm, 19 gauge or 1mm thick) in square pattern of grid sizes of 2'X2' (600X600mm). The aluminium framework is supported from the ceiling with the help of G.I. hook and G.I. wire/6mm.M.S. rods of required sizes to maintain proper level etc. the aluminium framework is supported on side wall with the use of aluminium 1"X1" (25X25mm) angles, complete as per direction of Engineer-in-Charge & drawing	1 Sqm	1,350.00
372	TBSC-K.I-30	Supply and fixing of PVC false ceiling on MS/GI made skeleton framework. The frame shall be 24 X 48mm MS tube section fixed along with the wall. The entire frame work shall be concealed with PVC section having overall dimensions of 6 X 250 mm with a wall thickness of 1mm ± 0.3mm with tongue and groove system, provided with necessary arrangements for electrical connections, complete, for finished item of work.	1 Sqm	1,498.00
		15 mm - Micro Look Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 95% RH, Average NRC 0.90, Light Reflectance >88%, Thermal Conductivity $\lambda = 0.032$ w/mk, Fire Performance Class 0/Class 1 suitable for Green Building application, with Recycled content of 88% (FG)	1 Sqm	1,547.00
		16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.55, Light Reflectance >84%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	685.00
		Providing & Fixing of Lay-in-metal plain ceiling System consisting of 600 x 600mm Lay in GI tiles of pre coated galvanised steel in 0.5 mm thickness in white colour to be laid on grid systems with 15mm wide T - section flanges but excluding cost of Grid systems complete for finished item of work	1 Sqm	746.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
		Providing & Fixing of GI Lay in Standard Perforated(2.5mm diameter-16% open area) metal ceiling consisting of 600 x 600 mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color acoustical fleece hot pressed to the back of the perforated tile to be laid on grid systems with 0.5 mm thickness in white colour with 15mm wide T - section flanges but excluding cost of Grid systems and having rotary stitching on the Main Runner, 1200 mm & 600 mm Cross Tees and the tiles with NRC of 0.70, Fire Performance of Class A2-s1.d0 as per EN13501 standard in module size of 600 X 600 mm suitable for Green Building application, with Recycled content of 25% complete for finished item of work	1 Sqm	1,069.00
II	SUB-SECTION	FALSE CEILINGs - SECTIONS & ACCESSORIES		
373	TBSC-K.II-01	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	74.00
374	TBSC-K.II-02	G.I. Ceiling Section 51.5 mm x 26 mm x 10.5 mm x 0.55 mm thick	1 RM	85.00
375	TBSC-K.II-03	G.I. intermediate Section 45 mm x 15 mm x 15 mm x 0.9 mm	1 RM	84.00
376	TBSC-K.II-04	G.I. Perimeter Channel - 20 mm x 27 mm x 30 mm (web) of 0.55 mm thick	1 RM	74.00
377	TBSC-K.II-05	G.I.-Precoated Fine line Grid 25 mm x 25 mm x 0.7 mm	1 RM	41.00
378	TBSC-K.II-06	G.I.-Precoated Fine line Grid 15 mm x 25 mm x 0.7 mm	1 RM	37.00
379	TBSC-K.II-07	GI - Precoated - T-Sec- 24 mm x 38 mm x 0.7 mm thick	1 RM	54.00
380	TBSC-K.II-08	Hot dipped GI Angle - Precoated - Grid: 19 mm x 19 mm	1 RM	40.00
381	TBSC-K.II-09	Polyester painted GI - T Section - 24 x 32 mm	1 RM	50.00
382	TBSC-K.II-10	Polyester painted GI - T Section - 24 x 25 mm	1 RM	45.00
383	TBSC-K.II-11	Polyester painted GI - T Section - 24 mm x 27 mm	1 RM	46.00
384	TBSC-K.II-12	Aluminium Angle : 24 mm x 24 mm	1 RM	26.00
385	TBSC-K.II-13	Anodized Aluminium T Section : 24 x 24.5 x 2.4 mm	1 RM	34.00
386	TBSC-K.II-14	Connecting Clips	1 Each	2.00
387	TBSC-K.II-15	Rawl Plug	1 Each	2.00
388	TBSC-K.II-16	6 mm Nylon Rawl Plug	1 Each	3.00
389	TBSC-K.II-17	Soffit Cleats	1 Each	2.00
390	TBSC-K.II-18	Drywall Screws - 25 mm	1 Each	2.00
391	TBSC-K.II-19	Jointing Compound	1 Kgs	29.00
392	TBSC-K.II-20	Jointing Paper Tape	1 RM	5.00
393	TBSC-K.II-21	Drywall Top Coat	1 Liter	142.00
394	TBSC-K.II-22	Universal Holding Clips	1 Each	3.00
395	TBSC-K.II-23	4 mm Diameter GI Connecting Rod	1 RM	12.00
396	TBSC-K.II-24	2 mm Diameter GI Connecting Rod	1 RM	10.00
III	SUB-SECTION	WALL LINING & PANELLING		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
397	TBSC-K.III-01	Providing wooden paneling 12 mm thick prelaminated particle board fixed on wooden frame of BT wood size 50.8 mm x 25.4 mm (2"x1") at distance of 609.6mm (2'-0") intervals of both ways providing 3/4" x 1/2" (19.05 mm x 12.7 mm) size BT wood ornamental cover beading and necessary screws, synthetic glue complete for finished item of work.	1 Sqm	1,810.00
398	TBSC-K.III-02	Perforated wall panels channeled wood works sheets of width 128 mm, thickness of 16mm and length 2440 mm made of a high density particle board substrate with a laminated facing as per the approved shade/species & finish and a melamine balancing layer on the reverse side, with a special perforation pattern fluted perforation on the visible surface with a minimum sag resistance of RH90 and a fire rating class of 1 as per Part 7 of BS 476 with a "tongue-and-grooved" edges and the back of the perforated panel is with sound absorbing non-woven acoustical fleece	1 Sqm	3,495.00
399	TBSC-K.III-03	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: using 8mmthick Calcium silicate boards	1 Sqm	765.00
400	TBSC-K.III-04	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 10mm thick Calcium silicate boards	1 Sqm	843.00
401	TBSC-K.III-05	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 12mm thick Calcium silicate boards	1 Sqm	919.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
402	TBSC-K.III-06	Supply and fixing of cement board (conforming to IS:14862:2000) wall paneling with frame work made of GI stud profile of size 48 x 40 x 10 x 0.55 mm thick placed at every 610 mm C/C intervals fixed vertically in between floor and roof `U' track of size 50 x 30 x 0.6 mm thick duly fixed with self expansion screws and fixing with self tapping self embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap between two panels of width 2'-0". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 8 mm Cement Bonded Board	1 Sqm	921.00
403	TBSC-K.III-07	Supply and fixing of cement board (conforming to IS:14862:2000) wall paneling with frame work made of GI stud profile of size 48 x 40 x 10 x 0.55 mm thick placed at every 610 mm C/C intervals fixed vertically in between floor and roof `U' track of size 50 x 30 x 0.6 mm thick duly fixed with self expansion screws and fixing with self tapping self embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap between two panels of width 2'-0". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 10 mm Cement Bonded Board	1 Sqm	1,060.00
404	TBSC-K.III-08	Supply and fixing Cement Bonded Particle Board conforming to IS 14276 wall paneling using 10 mm Cement Bonded Particle Board conforming to IS 14276 with frame work made of GI stud section of size 48mm x 35mm x 0.55mm thick placed at every 610 mm C/C intervals vertically and at 1200mm internals horizontally fixed to the wall by means of self expansion screws and caps and Cement Bonded Particle Board conforming to IS 14276 is to be fixed to frame by means of self taping screws placed at every 300 mm intervals leaving 3mm gap between two panels. The cost inclusive of one coat of synthetic plastered primer and two coats of synthetic smooth finished putty and cost & conveyance of all materials, labor charges etc. complete as per the direction of Engineer in charge.	1 Sqm	1,658.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
405	TBSC-K.III-09	Supply and fixing of Cement Bonded Pre-laminated Particle Board wall paneling using 12 mm Cement Bonded Pre-laminated Particle with frame work made of G.I stud section of size 48mm x 35mm x 0.55mm thick placed at every 610mm intervals vertically and at 1200mm internals horizontally fixed to the wall by means of self expansion screws and caps. Cement Bonded Pre-laminated Particle is to be fixed to frame by means of self-taping screws placed at every 300mm intervals leaving 3mm gap between two panels. The cost inclusive of Conveyance of materials, Labor charges etc., complete as per the direction of Engineer in charge	1 Sqm	2,334.00
406	TBSC-K.III-10	Providing and fixing plain PVC rigid foam sheet wall paneling of thickness 5mm consisting of panels having size 1220mm X2440mm stuck on inner frame work of 25mm wide strips of 5mm thick PVC rigid foam sheet. The strips should have in their centre a groove of 6mm width and 2mm depth for sinking the head of the screw used to fix the strips to the wall and should be placed vertically at equal intervals of 405/407mm centre to centre. The PVC strips shall be fixed to the wall using 65mm long M.S. screws through the groove in the strip by using PVC fasteners. The distance between two screws shall not be more than 300mm. a groove of 2mm may be left at the joint of two panels for aesthetic looks. This framework is done for making existing wall surface in ensured level and for sticking the wall paneling sheet (panel) on it. The exact size of the panel and correspondingly of the grid May be varied depending on the size of the wall. However it must ensured that a strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck at the places where two panels are joined, using solvent cement. , complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 Sqm	2,076.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
407	TBSC-K.III-11	Providing and fixing INSULATED PVC WALL paneling shall consist of PVC insulated panels having wall thickness of 1mm /1.5mm/2mm PVC sheet and the desired thickness of EPS (dependent on the insulation required) screwed into the wall using screws of adequate length. The screws shall be placed at a distance of 150mm and shall be 25mm from the edge of the insulated panel on all from sides of the panel. The PVC strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck using solvent cement adhesive at the places where two panels are joined, so a to cover the screw of both the panels, using solvent cement. 90 heat bent strips of 5mm thick PVC sheets of width 75mm X75mm feathered at the edges shall be stuck at wall joints / pillars etc. , complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 Sqm	2,185.00
408	TBSC-K.III-12	Supply and fixing of wall paneling on the framework of wooded rippers of 24 X 24mm of required size. The entire framework shall be panelled with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm. The panels are joined with tongue and groove system. Necessary cut-outs for electrical connections to be provided at required places complete, for finished item of work.	1 Sqm	1,419.00
IV	SUB-SECTION	PARTITIONS		
409	TBSC-K.IV-01	Supply & fixing 75mm thick metal stud partition using 12.5 mm thick Gypboard conforming to IS 2095-1982 screw fixed to either side to 48 mm studs of 0.55 mm thick with the 50 mm floor and ceiling channel 0.55 mm and the joints duly finished with joint compound, paper tape and two coats Dry wall top coat as per specification.	1 Sqm	1,222.00
410	TBSC-K.IV-02	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work- using 8mm thick Calcium silicate boards	1 Sqm	1,290.00
411	TBSC-K.IV-03	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 10mm thick Calcium silicate boards	1 Sqm	1,444.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
412	TBSC-K.IV-04	Supply and Fixing 66mm thick metal stud partition screw fixed to either side of 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 12mm thick Calcium silicate boards	1 Sqm	1,597.00
413	TBSC-K.IV-05	Supply and Fixing 66mm thick metal stud partition using 2 layers of 12mm thick Calcium silicate boards screw fixed to either side to 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm. The boards joints are to be staggered to avoid through passage. Ceramic wool of 50mm thick, 64kg/m ³ density is to be placed in cavity of the partition. The joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification with out painting for finished item of work	1 Sqm	4,288.00
414	TBSC-K.IV-06	Supply and fixing double skin cement board (conforming to IS:14862:2000) partition with Frame work made of GI stud profile of size 48 x 40 x 10 x 0.55 mm thick placed at every 610 mm C/C intervals and 1220 mm horizontal intervals duly fixed with self expansion screws, the cement board of 8 mm thick cladded around with self tapping self embedding screws fixed at every 300 mm (centres) leaving 3 mm gap between two panels and the gap will be covered with decorative molding surface will be given a smooth finish over cement primer. The rate is inclusive of cost and conveyance of all materials and labour charges etc. complete.	1 Sqm	1,608.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
415	TBSC-K.IV-07	Providing and fixing of 50 mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 5 mm thick non-asbestos fibre reinforced cement sheets (conforming to IS:14862:2000) on either side of the lightweight concrete core composed of Portland cement binders with tongue and groove arrangement. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x52x31 mm fixed to the existing floor with 6x60mm nylon self expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31x52x31 mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 50mm SOLID WALL PANELS, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete	1 Sqm	1,660.00
416	TBSC-K.IV-08	Providing and fixing of 75mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 5 mm thick non-asbestos fibre reinforced cement sheets (conforming to IS:14862:2000) on either side of the lightweight concrete core composed of Portland cement binders with tongue and groove arrangement. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x77x31 mm fixed to the existing floor with 6x60mm nylon self expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.80 mm thick GI Channel of size 31x77x31 mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 75mm SOLID WALL PANEL panels, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete.	1 Sqm	1,982.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
417	TBSC-K.IV-09	Supply & fixing of 50 mm thick partition with composite panel comprise of two 5mm thick Boards (asbestos-free fibre reinforced cement sheets conforming to IS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. s with unique semi-circular Tongue & Groove Joining System provides better stability, rapid installation and better workability. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x52x31 mm fixed to the existing floor with 6x60mm nylon self-expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31 x 52 x 31 mm duly fixed to the existing ceiling with 6x60mm nylon self-expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the jointing compound in all the exposed joints. The rate includes cost of 50mm S, G.I. Floor and ceiling Channel.	1 Sqm	1,660.00
418	TBSC-K.IV-10	Supply & fixing of 75 mm thick partition with composite panel comprise of two 5mm thick Boards (asbestos-free fibre reinforced cement sheets conforming to IS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. s with unique semi-circular Tongue & Groove Joining System provides better stability, rapid installation and better workability. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x77x31 mm fixed to the existing floor with 6x60mm nylon self-expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31x77x31 mm duly fixed to the existing ceiling with 6x60mm nylon self-expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the jointing compound in all the exposed joints. The rate includes cost of 75mm S, G.I. Floor and ceiling Channel.	1 Sqm	1,982.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
419	TBSC-K.IV-11	Supply and fixing double skin partition using with 10 mm Cement Bonded Particle Board conforming to IS 14276 made out of G.I. track section of size 50mmx 35mm x 0.55 mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm intervals horizontally fixed to the wall by means of self expansion screws and caps to the wall and roof the panel is to be fixed both sides of frame work by using self taping screws fixed at every 300mm intervals to the frame work leaving 3 mm gap between two panels. The cost inclusive with one coat of synthetic primer and two coats of synthetic plaster smooth finish and cost and conveyance of all materials to site, labor charges etc., complete as per the direction of Engineer in charge.	1 Sqm	2,422.00
420	TBSC-K.IV-12	Supply and fixing of Cement Bonded Prelaminated Particle Board double skin partition using with 10 mm Cement Bonded Prelaminated Particle Board made out of G.I track section of size 50 mm x 35mm x 0.55mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm internals horizontally. The frame is fixed by means of self expansion screws and caps to the wall / roof. Cement Bonded Prelaminated Particle Board is to be fixed both sides of the frame work by using 2mm thick electro plated CR flat section leaving 3mm gap between two panels. The cost inclusive of cost and conveyance of all materials to sites, other materials incidentals and labour charges as per the direction of Engineer in charges.	1 Sqm	3,338.00
421	TBSC-K.IV-13	Supply and fixing of Cement Bonded Prelaminated Particle Board aluminum glazed partitions using 10MM Cement Bonded Prelaminated Particle Board and 5.00 mm thick plain glass to full height. Using with Cement Bonded Prelaminated Particle Board to a height of 0.91 meter at bottom panel and remaining height with glass and aluminum sections anodized to 12 to 15 microns and of sections of size 37mm x 62mm and 1.5mm thickness with one meter centre to centre duly fixed with clip beading on both sides including fixing the frame to pillars by M.S. flats, bolts and nuts including cost and conveyance of all materials etc., complete as directed during execution.	1 Sqm	3,849.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
422	TBSC-K.IV-14	Providing and fixing 50mm thick SEMI HEIGHT SOLID PVC PARTITION consisting of 49mm sandwich PVC panel made out of 36mm high density expanded polystyrene sheet(E.P.S.-Thermocol) stuck on both side with 2mm thick plain/printed /prelam PVC rigid foam sheets reinforced with frame work made from 35mmX5mm M.S. Angle. In between two M.S. Angles 5mm thick plain/printed/prelam heat molded "" PVC 'C' channel of size 50X100mm with feathered edges shall be fixed on the floor & 50X75mm with feathered edges plain/printed /prelam PVC 'C' channel. In between adjoining EPS sandwiched PVC partitions panel 5mm thickX75mm width plain/printed/prelam PVC sheet feathered at edges shall be stuck on front & back face using solvent cement etc. in places where two partitions meet to form an 'L' shape the panels are joined 5mm thick plain/printed/prelam heat molded "" PVC 'L' section of size 75mmX75mm with feathered edges shall be fixed on front & back side. This is done to maintain the symmetry of design. An additional 5mm thick PVC strip of 40mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive, complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 Sqm	2,950.00
423	TBSC-K.IV-15	Supply and fixing of PVC Double Skin Partition. The entire framework shall be carried out by mild steel section having overall dimensions of 24 X 48mm with a wall thickness of 1.2mm. The entire framework shall be concealed with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm both sides. Glass provision/Door provision can be provided along the partition wherever required. Partitions can be made full or half as per requirement complete, for finished item of work.	1 Sqm	2,490.00
424	TBSC-K.IV-16	Supply and fixing double skin cement based Board partition with Frame work made of GI stud profile of size 48x40x 10x 0.6 mm thick placed at every 610 mm C/C intervals and 915 mm horizontal intervals duly fixed with self expansion screws, the Cement Bonded Board of 8 mm thick cladded around with self tapping self embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap between two panels of width 2'-0"(610 mm). The Gap will be covered with a decorative molding surface will be given a smooth finish over cement primer. The rate Inclusive of cost and conveyance of all materials and labour charges etc., Complete. DOUBLE SKIN PARTITION	1 Sqm	1,392.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
425	TBSC-K.IV-17	Supply and fixing of partitions made of seccolor pre-painted steel (base steel as per IS 513 of 0.58 mm thick 'D' quality, galvanized as per IS 277 with Zinc of 120 GSM). Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick alkyd backer. Section for outer frame should be 46x52mm, section for shutter should be 46x46mm, section for mullion should be 46x70mm, section for beading should be 18x25mm and section for middle and bottom rail (Lock Rail and Kick Rail) of size should be 23x130mm. The partition should be paneled with 9mm pre-laminated particle board to a height of 0.91m from the bottom, and remaining height with 5mm thick plain glass With Ethyl Propylene Diametermine Monomer (EPDM) Gaskets. The sections are to be cut to length, mitre joined with corner bracket Centre mullions are to be fixed using mullion cap. Gaskets made of Ethyl Propylene Diametermine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphate. Mullion caps made of Glass filled nylon. The above frames should be fixed to the concrete/masonry wall by means of self expanding screws, and complete for finished item of work Fixed Partition: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm.	1 Sqm	4,925.00
426	TBSC-K.IV-18	Supply and fixing of partitions made of seccolor pre-painted steel (base steel as per IS 513 of 0.58 mm thick 'D' quality, galvanized as per IS 277 with Zinc of 120 GSM). Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick alkyd backer. Section for outer frame should be 46x52mm, section for shutter should be 46x46mm, section for mullion should be 46x70mm, section for beading should be 18x25mm and section for middle and bottom rail (Lock Rail and Kick Rail) of size should be 23x130mm. The partition should be paneled with 9mm pre-laminated particle board to a height of 0.91m from the bottom, and remaining height with 5mm thick plain glass With Ethyl Propylene Diametermine Monomer (EPDM) Gaskets. The sections are to be cut to length, mitre joined with corner bracket Centre mullions are to be fixed using mullion cap. Gaskets made of Ethyl Propylene Diametermine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphate. Mullion caps made of Glass filled nylon. The above frames should be fixed to the concrete/masonry wall by means of self expanding screws, and complete for finished item of work Fixed Partition with Door: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm, section for shutter should be of 46x46mm and section for middle & bottom should be of size 23x130mm	1 Sqm	5,616.00
L	SECTION	DOORS, SHUTTERS & FRAMES		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	DOOR FRAMES		
427	TBSC-L.I-01	Mild Steel Hallow single rebate general purpose door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile-B of size 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, phosphating with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 Rm	378.00
428	TBSC-L.I-02	Powder Coated Mild Steel Hallow single rebate door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile size of 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, Galvanized as per IS:277, zinc phosphating finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 60 – 65 microns(Dry film thickness)Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 RM	696.00
429	TBSC-L.I-03	Providing and fixing factory made polyvinyl chloride (PVC) Door Frame of the size 50 x 47mm with a wall thickness of 5mm, made out of extruded 10 mm rigid PVC foam sheet, mitre cut at two corners and joined with 2nos. of 150mm long brackets of 15x15mm M.S. square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 gauge. The door frame shall be fixed to the wall using 65/100mm long M.S. Screws through the frame by using PVC fasteners. A minimum of 4nos. of screws to be provided for each vertical member & minimum 2nos. for horizontal member etc. complete as per manufacturers specification and direction of Engineer-in-Charge for finished item of work	1 Rm	325.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
430	TBSC-L.I-04	SUPPLY & FIXING SINGLE SIDE PRELAM SOLID PANEL PVC DOOR FRAME (CHOUKHAT) Providing and fixing factory made Pac single side Prelam door frame of the size 50X47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid Pac single side prelam sheet, meter cut at two corners and joined with 2nos. of 150mm long brackets of 1515mm MS. Square tube. The two vertical door profiles are to be reinforced with 19X19mm MS. square tube of 19guage. The door frame shall be fixed to the wall using 65/100mm long MS. Screws through the frame by using Pac fasteners. a minimum of 4nos. of screws to be provided for each vertical member and minimum 2nos. for horizontal member etc. complete as per manufacture specification and direction of Engineer-in-charge.	1 Rm	340.00
431	TBSC-L.I-05	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 57mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metri-cut/ welded. PVC DOOR FRAME	1 RM	254.00
432	TBSC-L.I-06	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 46 mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be mitre cut/welded	1 RM	200.00
433	TBSC-L.I-07	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 60 mm	1RM	219.00
434	TBSC-L.I-08	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Double shutter 5'-0" x 7'-0" (1524 x 2133.6mm) outer frame section size of 50 x 60 mm	1 RM	219.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
435	TBSC-L.I-09	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 75 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	248.00
436	TBSC-L.I-10	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 75 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 5'-0" x 7'-0" (1524x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	248.00
437	TBSC-L.I-11	Providing and fixing door frames fabricated from sections made of galvanized steel powder coated (base steel as per IS 513, galvanized as per IS 277 with zinc of 120 grams / square metre), the factory made section are powder coated with pure polyester powder of 50-60 microns thick with total coated thickness of 1.25 mm, size of door frame section is of 105 x 60 mm with a rebate of 38 mm to accommodate 35 mm thick door shutter, with groove to insert gasket in the frame section, frame section filled with polyurethane foam, cut to length, and joined by way of welding, each frame provided with: a) 2mm thick MS powder coated butt hinges of 100 mm long – 3 Nos. for single shutter, 6 Nos. for double shutter. b) CRCA electroplates stiffeners of 6 Nos. – 3 in each vertical. c) 40 mm x 200 mm x 1.2 mm hold fasts screwed to stiffeners – 6 Nos. with split end tail. d) Nylon Aldrop Receiver – 1 No. for single shutter frame. e)Tie Rod – 1 No	1 RM	759.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
438	TBSC-L.I-12	<p>Providing and fixing of door frames factory made, internal door frames without threshold, fabricated from pre painted cold roll formed section 100 mm x 60 mm made of galvanized (base steel as per IS-513 'D' quality galvanized as per IS-277 with Zinc of 120 Gms/sqm) steel colour coated sections with total coated thickness of 1 mm primer coated with epoxy primer of 5-7 microns thick finish painted with polyester paint of 12-16 microns and back coated with alkyd backer of 5-7 microns, the frame section filled with polyurethane (PU Foam) of 40 kg/Cum and the sections cut to length and mitre joined by means of 1.25 mm thick CRCA electroplated corner brackets of size 75 x 75 mm and 1.25 mm thick electroplated stiffeners of size 150 mm for fixing hold fasts and hinges with MS Powder coated fittings a) 6 Nos M.S. Z Type hold fasts made of 30 mm x 3 mm MS flat of 230 mm long, 3 Nos each size expandable PVC covered screw type fasteners b) 2.5 mm x 300 mm long 'T' hinges /2.5 mm x 50 mm x 50 mm x 100 mm two way but hinges (3 Nos for single leaf or 2 Nos for Double leaf/leaf) c) 12 mm Diameter MS tie rod at bottom with necessary size of nuts on either side.</p>	1 RM	474.00
439	TBSC-L.I-14	<p>Supply and fixing of factory made Bathroom door frames without threshold, fabricated from pre-painted cold roll formed section 50mm x 50 mm made of galvanized steel as per IS - 513 'D' quality, galvanized as per IS-277 steel colour coated sections primer coated with epoxy primer finish painted with polyester paint the frame section filled with polyurethane (P.U. Foam) of 40 Kg/Cum; and the sections joined by means of 1.25mm thick CRCA electroplated corner brackets of size 75 x 75 mm and 1.25mm thick electroplated stiffeners of size 150mm for fixing hold fasts and hinges together with the following MS Power coated fitting (Supply and fixing) of approved make. a) 6 Nos M.S. Z. Type hold fasts made of 30mm x 3 mm MS flat of 230mm long, 3 Nos each side expandable PVC covered screw type fasteners b) 2.5 mm x 300 mm long 'T' hinges / 2.5mm x 50 mm x 100mm two way but hinges (3 Nos for single leaf or 2 Nos for Double leaf /leaf)c) 12 mm Diameter MS tie rod at bottom with necessary size of nuts on either side.</p>	1 RM	428.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
440	TBSC-L.I-16	Supply of factory made Precast Reinforced Cement concrete door frame of with overall dimension of 60 x 100 mm for single shutter door (+/-2mm) three nos, of 6mm dia steel bars are used for longitudinal reinforcement for each vertical and horizontal member and are held firmly by 3mm dia ties spaced at not more than 300mm c/c Polymer wonder blocks are provided in the frames for tower bolt and hinges provisions made in the frame for aldrops provisions are made in the vertical member for fixing of 3 nos. hold-fasts with 8 mm dia bolts and the frame surface shall be smooth without any voids and shall confirm to IS 6523 complete finished item including all taxes as per specifications & the directions of the Engineer-in-Charge.	1 RM	330.00
441	TBSC-L.I-18	Supply of factory made Precast Reinforced Cement concrete double door frame of the door frame shall have overall dimension of 60 x 125 for single shutter door(+/-2mm) four nos, of 6mm dia steel bars are used for longitudinal reinforcement for each vertical and horizontal member and are held firmly by 3mm dia ties spaced at not more than 300mm c/c Polymer wonder blocks for fixing of towerbolt and hinges with provision for aldrops and 3 nos. hold-fasts with 8mm dia bolts and the frame surface shall be smooth without any voids and shall confirm to IS 6523 complete finished item including all taxes as per specifications & the directions of the Engineer-in-Charge.	1 RM	430.00
442	TBSC-L.I-20	Fixing of precast RCC frames (Precast RCC framed members to be supplied at site) including assembling the members for door frames fixing to MS masonry or RCC wall face including providing and fixing Six no. hold-fasts of MS Flat 40x5mm and length 40cm per frame embedding in cement concrete blocks of size 30x10x15 cm of mix (1 cement:3 Coarse sand: 6 graded stone aggregate 20 mm nominal size) complete as per specification & the directions of the Engineer-in-Charge	1 RM	250.00
II	SUB-SECTION	DOOR SHUTTERS WITHOUT FRAMES		
443	TBSC-L.II-01	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 25 mm thick conforming to IS:2202	1 Sqm	1,909.00
444	TBSC-L.II-02	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 30 mm thick conforming to IS:2202	1 Sqm	2,003.00
445	TBSC-L.II-03	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 35 mm thick conforming to IS:2202	1 Sqm	2,188.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
446	TBSC-L.II-04	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 25 mm thick conforming to IS:2202	1 Sqm	1,088.00
447	TBSC-L.II-05	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 30 mm thick conforming to IS:2202	1 Sqm	1,314.00
448	TBSC-L.II-06	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 35 mm thick conforming to IS:2202	1 Sqm	1,488.00
449	TBSC-L.II-07	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 40 mm thick conforming to IS:2202	1 Sqm	1,685.00
450	TBSC-L.II-08	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 20 mm thick conforming to IS:2202	1 Sqm	2,097.00
451	TBSC-L.II-09	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 25 mm thick conforming to IS:2202	1 Sqm	2,038.00
452	TBSC-L.II-10	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 30 mm thick conforming to IS:2202	1 Sqm	2,256.00
453	TBSC-L.II-11	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 35 mm thick conforming to IS:2202	1 Sqm	2,461.00
454	TBSC-L.II-12	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 40 mm thick conforming to IS:2202	1 Sqm	2,812.00
455	TBSC-L.II-13	Supply and fixing of Cement Bonded Prelaminated Particle Board single door shutter using 16MM Cement Bonded Prelaminated Particle Board with all round section "U" size of mm thick galvanized pre-painted cold rolled steel profiles Cement Bonded Prelaminated Particle Board with necessary screws fixed at every 1'0" (304.8mm) intervals. The cost inclusive of MS Nickel coated 250mm long Aldrops 2 no's , MS powder coated 250mm long tower bolt 1 no's, 2no's MS powder coated 125mm long grip handle, 1 no's M.S.P.C. Door stopper. Including cost and conveyance of all materials at site labour charges etc., complete finished item of work.	1 Sqm	2,450.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
456	TBSC-L.II-14	Supply and fixing of Cement Bonded Prelaminated Particle Board double door shutter using 16MM Cement Bonded Prelaminated Particle Board with all round "U" section size of 20mm x 18mm x 20mm made from 0.6mm thick galvanized pre-painted cold rolled steel profiles with Cement Bonded Prelaminated Particle Board separating two shutter with 30mm x 20mm x 30mm stepped lipping with necessary screws fixed at every 1'0" (304.8mm) intervals. The cost inclusive of MS Nickel coated 250mm long Aldrops 2no's, MS powder coated 125mm long grip handle, 2 no's M.S.P.C. Door stopper. Including cost and conveyance of all materials at site labour charges etc., complete finished item of work.	1 Sqm	3,112.00
457	TBSC-L.II-15	Supply and fixing of Cement Bonded Prelaminated Particle Board door shutter made out of U sections of size 12x14x12 made from 0.6mm thick pps sections with 12MM Cement Bonded Prelaminated Particle Board with necessary screws fixed at every 1'.0"interwells. The hardware consists of 250mm long Aldrop - 2 Nos.150mm Handle- 1 No , 150 mm long ms powder coated tower bolt 1 no. nickel coated. The cost is inclusive of all incidentals, labor transportation charges.	1 Sqm	2,397.00
458	TBSC-L.II-16	Supply and fixing of Cement bonded Particle BOARD (conforming to IS 14862) door shutter with all-round style "U" lipping size 15 x 18 x 15 mm made from 0.8 mm thick powder coated cold rolled steel profiles with 16 mm thick Cement bonded Particle BOARD with necessary screws fixed at 1'-0" interval 250 mm long Aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1,650.00
459	TBSC-L.II-17	Supply and fixing of Cement bonded Particle BOARD (conforming to IS 14862) 12 mm thick door shutter of size 6'0" x 2'6" with all-round style "U" lipping size 15 x 14 x 15 mm made from 0.8 mm thick powder coated cold rolled steel profiles with necessary screws fixed at 1'-0" interval 250 mm long Aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1,413.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
460	TBSC-L.II-18	Supply and fixing door shutter with frame made out of PVC section and panels conforming to IS:10151-1982 having panel sizes of 100 mm x 30 mm with self extruded grooves at 40 mm x 50 mm grooves on front face and the infill panel dimension is 610 mm x 20 mm seamless hollow multi chambered PVC single panel for finished item of work.	1 Sqm	2,610.00
461	TBSC-L.II-19	Molded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick of Masonite or equivalent doors - 30 mm thick	1 Sqm	1,644.00
462	TBSC-L.II-20	Molded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick Masonite or equivalent doors - 35 mm thick	1 Sqm	1,797.00
463	TBSC-L.II-21	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 30 mm thick	1 Sqm	1,336.00
464	TBSC-L.II-22	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 35 mm thick	1 Sqm	1,478.00
465	TBSC-L.II-23	Providing and fixing 35mm thick FACTORY MADE MOULDED DOOR SHUTTER consisting of solid core single leaf flush door of 30mm thickness, lipped with 15mm (5mmX3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant molded Pac sheet with 2,4,6 raised panel design in different panel and / or prelam colours on one side after routing the molded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing	1 Sqm	2,900.00
466	TBSC-L.II-24	Supply & Fixing SOLID STEEL DOOR shutter made out of G I Precoated Sheet with an average wall thickness of 0.35 mm on both sides. MS Tube having dimensions of 19 x 19 mm is inserted along the hinge side of the door, core of the door shutter filled with High Density Polyurethane foam injected with the help of hydraulic injection method, four sides of the door covered with G I Precoated Sheet and the hardware locations reinforced with suitable wooden blocks as per drawing and stickers indicating location of the hardware pasted at appropriate places, etc complete	1 Sqm	1,480.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
467	TBSC-L.II-25	Providing of 35mm thick Facotry made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides.for each shutter and ISI make S.S round lock complete for finished item of work	1 Sqm	6,821.00
468	TBSC-L.II-26	Supply and fixing of Cement Bonded Prelaminated Particle Board door shutter conforming to IS-14276 made out of U sections of size 12 x 18 x 12 made from 0.6mm thick PPS sections with 16 mm Cement Bonded Prelaminated Particle Board with necessary screws fixed at every 1'.0"interwells. The hardware consists of 12 mm dia x 200mm long Aluminum Aldrop – 2 Nos. 125 mm long Handle- 2 Nos. 3 mm x 12 mm x 180 mm long 304 SS hinges- 3 Nos with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The cost is inclusive of all incidentals, labor transportation charges.	1 Sqm	2,626.00
III	SUB-SECTION	DOORS WITH SHUTTERS & FRAMES		
469	TBSC-L.III-01	Providing and fixing 30mm thick Solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, & 15mm x 15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame shall be covered with 5mm thick heat molded PVC 'C' channel of size 30 x 50mm forming stiles, and 5mm thick, 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side, and 10mm (5mm x 2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Paneling of 5mm thick PVC sheet to be fitted in the M.S. frame welded / sealed to the stiles & rails with 30mm wide x 5mm thick PVC sheet beading on either side, and joined together with solvent cement adhesive etc. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive. Complete as per direction of Engineer-in-charge, manufacturer's specification & drawing for finished item of work .	1 Sqm	2,362.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
470	TBSC-L.III-02	<p>Providing and fixing 30mm thick FACTORY MADE BOTHSIDE PRELAM SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of MS. Tubes of 19gauge thickness and size of 19mmX19mm for stiles, top and bottom rails. MS. Frame shall have a coat of steel primers of approved make and manufacture. MS. Frame covered with 5mm thick heat molded Prelam Pac 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 450 angle on either side forming stiles; and 5mm thick, 95mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered in 450 on the inner side to form top and bottom rail 115mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10mm (5mmX2) thick, 20mmwide cross Pac sheet shall be provided as gap insert for top and bottom rail. Paneling of 5mm thick both side Prelam Pac sheet to be fitted in the MS. Frame welded/ sealed to the stiles & rails with 7mm(5mm+2mm) thick X 15mm wide Pac sheet beading on inner side, and joined together with solvent cement adhesive etc. an additional 5mm thick Pac strip of 20mm width is to be stuck on the interior side of the 'C' channel using Pac solvent cement adhesive etc. complete as per direction of Engineer - in-charge, manufacture specification and drawing.</p>	1 Sqm	2,700.00
471	TBSC-L.III-03	<p>Providing and fixing 30mm thick FACTORY MADE SOLID SINGLE SIDE PRELAM PANEL PVC DOOR SHUTTER consisting of frame made out of MS. Tubes of 19gauge thickness and size of 19mmX19mm for stiles, and 15mmX15mm for top and bottom rails. The MS. Frame shall have a coat of steel primers of approved make and manufacture. MS. Frame covered with 5mm thick heat molded single side Prelam Pac 'C' channel of size 30mmX50mm to form stiles.5mm thick& 75mm wide single side prelim Pac sheets shall be for the top, bottom and lock rails. Paneling of 5mm thick one side Pac sheet to be fitted in the MS. Frame and sealed to the front (prelam side) stiles and rails (which should have a 5mm 45 bent portion as beading) and attached to the back(white/ivory) stiles and rails which should have a 10mm 90 bent portion as beading) using 2nos. 15mm wide X 5mm thick Pac sheet beading inside the 90 bent beading. All stiles, rails and beadings are to be joined to the panel using solvent cement etc. an additional 5mm thick Pac strip of 20mm width to be stuck on the interior side of the 'C' channel using Pac solvent cement adhesive and 10mm(5mmX2) thick, 20mm wide cross Pac sheet to be fitted as gap insert for top and bottom rail etc. complete as per direction of Engineer -in-Charge, manufacture specification and drawing.</p>	1 Sqm	2,450.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
472	TBSC-L.III-04	<p>MOULDED PVC DOOR – WOOD FREE Providing and fixing 30mm thick Brand factory made Molded door shutter- wood free consisting of frame made out of MS. tubes 19gauge thickness and size of 25mmX25mm for stiles, top and bottom rails. MS. Frame shall have a coat of steel primers. The inner panel shall consist of 25mm thick High density EPS conforming to IS 4671-1984 bounded with 2mm thick termite proof, water proof and fire resistant molded Pac sheet with 2,4,6 raised panel design in different plain and / or prelam colours after routing to the molded design on one side and 2mm plain and / or prelam Pac sheet on other side of the EPS. The edge of panel to be sealed with lipping of 10mm wide PVC sheet bottom (made by sticking 2 rigid foam sheet of 5mm thickness using Pac solvent cement) and stiles sides 25mm(5mmX5) thick and 30mm width Pac sheet fitted along Ms. Tube for lock provision for lock height 5mm thick Pac sheet of size 150mmX100mm fixed with upper and lower face of inner side of EPS Panel etc. Complete as per direction of Engineer – in-Charge, manufacture specification and drawing</p>	1 Sqm	2,475.00
473	TBSC-L.III-05	<p>Providing and fixing 30mm thick FACTORY MADE WIRE MESH SOLID PVC DOOR SHUTTER consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mmX19mm for stiles and 15mm for top, lock & bottom rails. MS. Frame shall have a coat of steel primers of approved make and manufacture. 19mmX19mm M.S. square tubes shall be covered with 5mm thick heat molded "" PVC 'C' channel of size 30mm thickness, 90mm width out of which 75mm shall be flat and 15mm shall be flat and 15mm shall be bent in 900 on the inner side to from top and bottom rail land 130mm wide PVC sheet out of which 100mm shall be flat and 154mm shall be bent in 900 on both side to from lock rail, 10mm(5mmX2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panel will be of G.I. wire mesh of 24gauge to be fitted in by 'C' channel of size 35mm X10mm on the either side in the stiles. The inner side 'C' channel is fixed by 19mmX19mm MS. Tube on both sides with screws. The wire mesh in top bottom & lock rail is sealed with15mm X 15mm tube with G.I. wire 10mm(5mmX2) thick PVC strip of 25mm width is to be stuck& nails on both side of G.I. wire mesh interior at the top, bottom & lock rail. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawings</p>	1 Sqm	2,200.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
474	TBSC-L.III-06	Providing and fixing door & shutter of which frame made from 1.2 mm powder coated cold rolled steel profiles of overall section size of 60 mm x 45 mm with 21 mm rebate for shutter with necessary stiffeners hinges and screws with Cement bonded Particle BOARD (IS 14862) shutter with all-round style "U" lipping of size 15 x 18 x 15 mm made from 0.8 mm thick CRCA powder coated steel profile with 16 mm thick Cement bonded Particle board with necessary screws fixed at every 1'-0" interval 250 mm long Aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts including cost and conveyance, one coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.	1 Sqm	1,943.00
475	TBSC-L.III-07	Doors Frames (Colour Coated Steel Sections) & Shutter using Cement Bonded Particle Board as per IS 14276 (Cement Bonded Particle Board conforming to IS 14276 or equivalent) : Providing and fixing of door frame made from cold roll formed sections made of galvanized (Base steel as per IS277 with zinc of 120 Gms/sqm) colour coated steel sections with total coated thickness of 1mm, primer coated with epoxy primer coat of 5-7 microns thick, finish paint with polyester paint of 12-16 microns. The Section for door frame is to be filled with polyurethane (P.U) form of 40kg/m3. Overall size of frame section should be of 50mm x 50mm. With necessary corner brackets, stiffeners, hinges, and screws. Cement Bonded particle board shutter (Cement Bonded Particle Board conforming to IS 14276 or equivalent) "Single Leaf" with all round styles "U" section of size 12m x 18m x 12mm made from 0.6 mm thick galvanized, colour coated cold rolled steel profiles with 16mm thick Cement Bonded particle Board (Cement Bonded Particle Board conforming to IS 14276 or equivalent) with necessary screws fixed at every 1'-0" (304.8mm) intervals. The cost inclusive of MS nickel coated Aldrop of size 250mm long 2nos. 200mm long tower bolt 1no., 125mm handles 2nos., cost and conveyance of all materials at site and applying one coat primer, one coat of luppum and two coats of synthetic enamel paint as per approved design for finished item of work	1 Sqm	3,845.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
476	TBSC-L.III-08	<p>Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding Doors duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of 60 mm x 45 mm x 2.20 mm with reinforcement of 1.2 mm thickness, super sash with overall size of 39 mm x 75 mm x 2.20 mm with for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.5 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Door shall be provided with standard hardware & multi point locking system of bent handle espagulate .the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.</p>	1 Sqm	6,252.00
477	TBSC-L.III-09	<p>Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding doors with mesh shutter provision - (2-glass shutters)- 95 -Series duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.20 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.20 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Door shall be provided with standard hardware & multi point locking system of Patio/Bent espagulate .the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.</p>	1 Sqm	7,033.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
478	TBSC-L.III-10	<p>Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding doors with mesh shutter – (2-glass shutters and 1-mesh shutter)- 95 - Series duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.20 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.20 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Mesh shutter shall be made of (48 mm x 30 mm)/(50 mm x 26.5 mm) x 2.0 mm uPVC profile section and fitted with Vinyl Coated Fiber mesh and rollers/pulley duly fixed with TPV Gaskets weathering seal resistant Door shall be provided with standard hardware & multi point locking system of Patio/Roto espagulate and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.</p>	1 Sqm	7,773.00
479	TBSC-L.III-11	<p>Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors three track - three glass shutters sliding - 112 -Series duly manufactured using UPVC reinforced profiles of 112.0 mm x 60 mm x 2.25 mm for outer frames, 66 mm x 42 mm x 2.25 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make and fixed with EPDM weathering seal resistant accessories like clipping locking system made of aluminium 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work</p>	1 Sqm	6,731.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
480	TBSC-L.III-12	<p>Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) openable doors with openable shutters duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO₂ and not more than 12 PHR of CaCo₃ for every 100 parts of PVC resin) of 60 mm x 55 mm x 2.40 mm for outer frames, 74 mm x 60 mm x 2.40 mm for mullion sections as per the need and 102 mm x 60 mm x 2.40 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gaskets for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall be provided with 4 no's of 3D Hinges for each shutter and multipoint locking with keys. with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.</p>	1 Sqm	8,810.00
481	TBSC-L.III-13	<p>Supplying and fixing door shutter, with shutter frame and infill panel made from PVC material conforming to IS: 10151-1982, the shutter frame made out of PVC extruded sections having overall dimension of 47 mm x 33 mm with wall thickness of 1.2mm + 0.3mm with usual process variation, the shutter frame with tapered shape to provide better grip to the infill panel end to drain out the water The Infill panel is made out of PVC Sections having Overall Dimensions of 200 mm x 20 mm with wall thickness of 1mm + 0.2mm, the shutter frames mitre cut and joined at the corner, by providing Polymeric " L" type corners to take hardware & fixtures fixed with 10-20mm counter sunk fully threaded parallel shank steel screws, all the hardware locations reinforced with special polymeric bars as per drawings, stickers showing locations of different hardware pasted on the shutter, the infill panels joined by tongue and groove method.</p>	1 Sqm	1,038.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
482	TBSC-L.III-14	Supply and fixing of door shutters made of rigid PVC extruded hollow section(Nandi or equivalent) of 20mm X 200 mm with the wall thickness of 1.0mm +/- 0.1mm equally divided into 4 no's with tongue and groove locking arrangements. The shutter frame is made of 30mm X 79mm with the wall thickness of 1.5mm +/-0.15mm section mitre-cut and joined at 4 corners with 125mm X 225mm plastic brackets. The shutter shall be horizontally reinforced with 2 no's of 8mm PVC rods. Teak wood batons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed onto the door shutter.	1 Sqm	1,923.00
483	TBSC-L.III-15	Providing & fixing 30 mm thick solid panel PVC door shutter consisting of frame made out of 19 gauge M.S tube of 19 x 19 mm for stiles, top & bottom rail, with a coat of primer of approved make. M.S. Frame covered with 5 mm thick heat molded PVC "C" channel of size of 30 x 50 mm forming stiles, 5 mm thick 75 mm wide PVC sheet for top, lock & bottom rail on either side 20 mm wide cross PVC sheet as gap insert for top & bottom rail, paneling of 10mm(+/-)(5mm+5mm)" thick PVC sheet fitted in the M.S. frame welded /sealed to the stiles, on either side joined together with solvent cement adhesive etc., additional 5 mm thick PVC strip of 20 mm width stuck on the interior side of the C channel using solvent cement, complete as per direction of Engineer-in-charge, manufacturers specification.	1 Sqm	3,030.00
484	TBSC-L.III-16	Supplying & fixing SINGLE PANEL 30 mm thick PVC DOOR, door shutters with shutter frame and Infill panel made from PVC material, the shutter frame made out of PVC extruded sections having overall dimensions of 60mm x 30 mm with wall thickness of 1.3 mm ± 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm ± 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric bars as per drawing including providing special PVC bracket on hinge side, etc complete	1 Sqm	2,604.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
485	TBSC-L.III-17	Providing & fixing internal prelamated PVC door frame of size 100 x 45 mm with a wall thickness of 5mm, made of extruded 5 mm Prelam PVC foam sheet, mitred cut at two corners and joined with two nos. of 150mm long brackets of 15 x 15 mm MS square tube, two vertical door profiles reinforced with 40 x 20 MS Tube of 19 gauge throughout the frame and the door frame fixed to the wall using 65/100mm long MS screws through the frame by using PVC fasteners with a minimum of 3 nos of screws provided for each vertical member and two nos. for horizontal, etc complete as per drawing and direction of Engineer in Charge	1 RM	601.00
486	TBSC-L.III-18	Supply & Fixing of Powder Coated Mild Steel doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to single rebate profile of size 100 mm X 58 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 - 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for industrial, commercial, residential, clean room applications	1 Sqm	11,139.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
487	TBSC-L.III-19	Providing & Fixing of Scientific Doors with metal door frames and door shutters made of galvanize steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM) coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required rigidity and effective acoustic insulation with 6" Tower bolt - 1 No., 6" D handles - 2 Nos., 10" Aldrop - 1 No., Butt Hinges - 3 Nos, Mortise Lock of approved quality - 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Single leaf Door	1 Sqm	10,283.00
488	TBSC-L.III-20	Providing & Fixing of Scientific Doors with metal door frames and door shutters made of galvanize steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM). coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required rigidity and effective acoustic insulation with 6" Tower bolt - 2 Nos., 6" D handles - 2 Nos., 10" Aldrop - 1 No., Butt Hinges - 6 Nos, Mortise Lock of approved quality - 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Double leaf Door	1 Sqm	10,968.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
489	TBSC-L.III-21	Supply & Fixing of Stainless steel doors, frames & shutters made of stainless steel grade 304 of hairline finish, frame with 1.2mm thick formed to single rebate profile of size 100 mm X 58 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for industrial, commercial, residential, clean room applications	1 Sqm	20,886.00
490	TBSC-L.III-22	Supply & Fixing of Powder Coated Fire Rated doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to double rebate profile of size 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 - 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	13,228.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
491	TBSC-L.III-23	Supply & Fixing of Powder Coated Fire Rated doors, frames & shutters made of Skin pass galvanized Iron sheet conforming to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr with powder coating of thickness 60-65 Microns, frame with 1.2mm thick Skin pass Galvanized Iron sheet formed to double rebate profile of size 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 - 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 60 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	12,532.00
492	TBSC-L.III-23	Supply & Fixing of Stainless steel Fire Rated doors, frames & shutters made of Stainless steel of 304 grade hairline finish, frame with 1.2mm thick Stainless steel of 304 grade hairline finish sheet formed to double rebate profile of size 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel of 304 grade hairline finish Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 - 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	20,886.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
493	TBSC-L.III-24	Supply & Fixing of Stainless steel Fire Rated doors, frames & shutters made of Stainless steel of 304 grade hairline finish, frame with 1.2mm thick Stainless steel of 304 grade hairline finish sheet formed to double rebate profile of size 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel of 304 grade hairline finish Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 60 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	18,209.00
494	TBSC-L.III-25	Supply & Fixing of Lead Lined Clean room doors frames and shutters made of Skin pass galvanized Iron sheet (Conform to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr).with powder coating of thickness 60-65 Microns, frame of 1.60mm thick galvanized steel sheet (Conform to IS 277) formed to Single/double rebate profile of size 100mm X 58mm/ 143x58mm, door frames with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick Galvanized Steel Sheet (Conform to IS 277) formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the lead sheets extend the full width and height of the door, Lead thickness is equal to the shielding in the adjacent wall, the door frames and door shutters are coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns, coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, hardware with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc complete for finished item	1 Sqm	14,995.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
495	TBSC-L.III-26	Supply & Fixing of Lead Lined Stainless steel Clean room door frames and shutters made of Stainless steel grade of 304 hairline finish, frame with 1.60mm (16SWG) thick hairline finish Stainless steel grade of 304 formed to Single/double rebate profile of size 100 mm x 58mm/ 143 x 58 mm, door frames with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick hairline finish Stainless steel grade of 304 formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level. The lead sheets extend the full width and height of the door. Lead thickness is to be equal to the shielding in the adjacent wall. Hardware can be provided with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc complete for finished item of work	1 Sqm	23,671.00
496	TBSC-L.III-27	Providing of Factory made prelaminate FPVC (Foamed Polyvinyl Chloride) Door frame of the size 105x40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 50mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 no's to be provided for each vertical member,GI stiffeners of ("U" chanel of size 29x9x1mm, 150mm long) -3 no's at hinge point,Frame reinforcement of("U" GI chanel of size 46x22x.06mm),Bottom tie rod of ("U" GI chanel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work. Maximum door frame size : 980 x 2070 including providing of 35mm thick Facotry made Prelaminated ABS (Acrolonitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminate ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos. for each shutter and ISI make S.S round lock completes for finished item of work. Maximum shutter size of : 910 x 2030 mm	1 Sqm	8,388.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
497	TBSC-L.III-28	Supply and fixing of toilet door shutter with frame made of M.S. door frame of 5 mm x 48 mm x 48 mm (L angel) as all-round frame the frame is coated with one coat of red oxide and two coats of enamel of approved color. For shutter and the shutter is made with 16mm Bison lam shutter with all-round 'U' Lipping of PPS section of 12 mm x 18 mm x 12 mm x 0.60mm, along hardware of 200m long and 12mm dia aluminum aldop 2 Nos, 2Nos of 125m m handle, 3 Nos of RT patte hinges IS 304gr SS 2mmX12mmX180mm long with a pole receiver of 10mmDia x 40mm by welded on 3mm x 40mm SS 304, plate it works as receiver for RT Patee hinges it is welded to M.S. angle . M.S. angle will be fixed to wall of self expandable screws and caps	1 Sqm	3,760.00
IV	SUB-SECTION	CUP-BOARD DOORS		
498	TBSC-L.IV-01	Supply and fixing of cup board frames and shutters and using 16mm Cement Bonded Particle Board conforming to IS 14276 duly painted both sides with one coat of primer and two coats of synthetic / enamel paint of approved shade and brand including fixing of hardware like M.S. powder coated Piano hinges of size 18mm x 18mm, brass ball catches, Aluminum tower bolts and handles , Godrej locks, synthetic glue, screws and nails including cost and conveyance of all materials, labor charges, all incidental and operational charges etc., complete for finished item of work at site as per the directions of Engineer in Charge.	1 Sqm	2,350.00
499	TBSC-L.IV-02	Supply and fixing of box type cup board using Cement Bonded Particle Board conforming to IS 14276 for making frame of size 100mm x 35mm using two sandwiched 16MM boards, one Cement Bonded Particle Board conforming to IS 14276 and one Cement Bonded Prelaminated Particle Board with plain 35mm wood lipping. The Shutters are made of 16MM thick Cement Bonded Prelaminated Particle Board (Pre-Laminated Cement Bonded Particle Board) of approved shade inclusive of hardware like M.S. powder coated Piano hinges of size ¾" x ¾" , Aluminum powder coated handles of size 4" (101.6mm), Aluminum tower bolt 4" (101.6mm) Godrej locks, screws, wood lipping and synthetic glue etc., complete finish item of work.	1 Sqm	3,862.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
500	TBSC-L.IV-03	Supply and fixing of PVC cupboards for kitchen and bedrooms shall be made out of multi chambered PVC sections having overall dimensions of 20 X 762mm with a wall thickness of 1.2mm ± 0.3mm. The cabinets shall be made as per the requirements of the room with groove system. The PVC section surface shall be plain and laminated finish to have good look, completed, for finished item of work for SINTEX OR equivalent PVC CABINETS	1 Sqm	4,338.00
501	TBSC-L.IV-04	Supply and fixing of cupboard shutter using teakwood scantling of size 50 mm x 50 mm teakwood as outer frame and 50 mm x 30 mm of size teakwood for shutter frames, 8mm thick Bison Lam as panel to each shutter consist of 2 Nos 75mm long tower bolt – 2 nos 75 mm big handle the and other shutter will have 1 no of cupboard lack , 1 No of 75 mm long handle and 75 mm x 10mm x 1mm thick SS hinges- 2 Nos for each shutter. The above frame will be fixed to the wall with screws, the rate inclusive of screws, handle, etc., complete at site of work	1 Sqm	4,331.00
M	SECTION	WINDOWS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	OPENABLE WINDOWS		
502	TBSC-M.I-01	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter for sizes 2'0 x 4'0 (609.6 x 1219.2 mm) 3'-0 x 4'-0 (914.4mm x 1219.2 mm) without mullion section	1 Sqm	6,316.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
503	TBSC-M.I-02	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter with mullion section for sizes 3'-0 x 4'-0 (914.4mm x 1219.2 mm) and 4'-0 x 4 '-0 (1219.2x1219.2mm)	1 Sqm	6,681.00
504	TBSC-M.I-03	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter 4'-0 x 4 '-0 (1219.2x12.19.2mm) without Mullion section	1 Sqm	6,498.00
505	TBSC-M.I-04	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter with Mullion section for sizes 4'-6 x 4 '-6 (1371.6x1371.6mm) 5'-0 x 4'-0 (1524x1219.2mm) and 6'-0 x 4'-0 (1828.8x1219.2mm) and 6'-0 x 4'-6 (1828.8x1371.6mm)	1 Sqm	5,952.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
506	TBSC-M.I-05	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete Single shutter Window without vertical mullion for size 2'0"x4'0" (609.6mm x 1219.2mm)	1 Sqm	5,770.00
507	TBSC-M.I-06	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete Double shutter Window with vertical mullion for sizes 3'0" x 4'0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	6,134.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
508	TBSC-M.I-07	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete Centre fixed both side open able shutter window for sizes 5'0"x4'0" (1524mm x1219.2mm) and 6'0"x4'0" (1828.8mm x1219.2mm)	1 Sqm	5,405.00
509	TBSC-M.I-08	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm)	1 Sqm	7,652.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
510	TBSC-M.I-09	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for Double shutter Window with vertical mullion of sizes 3'0" x 4'0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	8,017.00
511	TBSC-M.I-10	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for Centre fixed both side open able shutter window for a size 5'0"x4'0" (1524mm x1219.2mm).	1 Sqm	7,288.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
512	TBSC-M.I-11	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for a size 6'0"x4'0" (1828.8mm x1219.2mm)	1 Sqm	6,377.00
513	TBSC-M.I-12	Providing & Fixing of Mesh windows made of pre-painted steel (Base Steel as per IS 513 of 0.58mm thick galvanized as per IS 277 primer coated with epoxy primer finish painted with a polyester paint, section for outer frame of 47 x 36 mm, centre mullion of 60 x 36 mm, section mesh beading 18 x 6 mm and Fly mesh shutter section of 20 x 40 mm, the sections cut to length meter joined with corner bracket and centre mullions fixed with mullion cap, handles, latch, 2 Nos of heavy duty stainless steel pivot hinges per S.S. Mesh for fly mesh shutter (304 grade) including fixing the frames in the concrete/masonry wall by means of self expanding screws complete for finished item of work.	1 Sqm	4,766.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
514	TBSC-M.I-13	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for Single open able shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm)	1 Sqm	5,088.00
515	TBSC-M.I-14	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for Double open able shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	5,409.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
516	TBSC-M.I-15	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for 5'0 x 4'0 (1524 x 1219.2mm) and 6'0 x4'0 (1829.6 x 1219.2mm)	1 Sqm	4,766.00
517	TBSC-M.I-16	Providing and fixing of Open able / Casement Windows with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for 2' 0" x 4' 0" (609.6 x 1219.2mm)	1 Sqm	6,748.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
518	TBSC-M.I-17	Providing and fixing of Open able / Casement Windows with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for 3' 0" x 4' 0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	7,069.00
519	TBSC-M.I-18	Providing and fixing of Open able / Casement Windows with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for 5'0 x 4'0 (1524 x 1219.2mm) and 6'0 x4'0 (1829.6 x 1219.2mm)	1 Sqm	6,427.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
520	TBSC-M.I-19	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work including of all taxes - 1220 x 1372 or below size	1 Sqm	5,685.00
521	TBSC-M.I-20	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work including of all taxes - 1530 x 1372 or above size	1 Sqm	5,093.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
522	TBSC-M.I-21	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work including of all taxes - 1220 x 1372 or below size	1 Sqm	7,142.00
523	TBSC-M.I-22	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work including of all taxes - 1530 x 1372 or above size	1 Sqm	6,566.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
524	TBSC-M.I-23	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows open able shutters duly manufactured using UPVC reinforced profiles of (48 mm x 60 mm)/ (58 mm x 60 mm) x 2.0 mm for outer frames, (64 mm x 60 mm)/(72 mm x 60mm) x 2.0 mm for mullion sections for two or more open able shutters and (78 mm x 60 mm)/(72 mm x 42 mm) x 2.0 mm for outward open able shutter frame or (70 mm x 60 mm)/ (72 mmx 42 mm) x 2.0 mm for inward open able shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories for casement window - friction stay hinges of stainless steel grade 304- 2 Nos., per sash, handle with mazak alloy casting 1 No. per sash, locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	6,471.00
525	TBSC-M.I-24	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of 60 mm x 55 mm x 2.40 mm for outer frames, 74 mm x 60 mm x 2.40 mm for mullion sections for two or more openable shutters 75 mm x 60 mm x 2.40 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding.The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and accessories for casement window - friction hinges of stainless steel grade 304/430- 2 Nos., per sash, handle with zamak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,756.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
II	SUB-SECTION	SLIDING WINDOWS		
526	TBSC-M.II-01	Providing and Fixing Pre painted Steel Sliding Window 2 Track-2 Panel Sliding Window fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58mm. Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick. Section for external frame should be of 59x44mm, Section for shutter should be of 35x50mm. The windows should be paneled with 5mm thick plain float glass. Corner bracket for internal and external frame made of glass filled nylon. Gaskets are to be made of Ethyl Propylene Diamine Monomer (EPDM).The sections are to be cut to length, joined and assembled by means of corner bracket. The above frames should be fixed to the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all Taxes complete for finished item of work.	1 Sqm	6,783.00
527	TBSC-M.II-02	Providing and fixing of Two shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 with powder coated with Pure polyester powder up to 50-60 microns thick with total coated thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, the Outer Frame for Two Tracks without grill provision is of 75 mm x 50 mm and the Window Shutter section of 58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with Two Sliding Shutters and without Grill	1 Sqm	5,302.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
528	TBSC-M.II-03	Providing and fixing of Two shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 with powder coated with Pure polyester powder up to 50-60 microns thick with total coated thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, the Outer Frame for Two Tracks with Grill provision size of 90 mm x 50 mm and the Window Shutter section of 58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with Two Sliding Shutters and with Grill	1 Sqm	5,880.00
529	TBSC-M.II-04	Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.	1 Sqm	6,212.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
530	TBSC-M.II-05	<p>Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for ii) Center Shutter Sliding: center shutter frame made of section of size 20mm x 47mm should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick and iii) Center Fly mesh Shutter Sliding: Section for Fly mesh Shutter frame should be of size 20mm x 40mm of 0.58mm thick and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm and 29mm x 20mm of 0.58mm.</p>	1 Sqm	6,801.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
531	TBSC-M.II-06	<p>Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with 3 shutters (Center fixed shutter / Center sliding shutter / center Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.</p>	1 Sqm	5,570.00
532	TBSC-M.II-07	<p>Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with 3 shutters (Center fixed shutter / Center sliding shutter / center Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. ii) Center Shutter Sliding: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of</p>	1 Sqm	6,095.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
		0.58mm thick and 29mm x 20mm of 0.58mm thick.		
533	TBSC-M.II-08	<p>Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with 3 shutters (Center fixed shutter / Center sliding shutter / center Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. iii) Center Fly mesh Shutter Sliding: Section for Fly mesh shutter frame should be of size 20mm x 40mm and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.</p>	1 Sqm	6,095.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
534	TBSC-M.II-09	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding windows duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (62 mm x 60 mm)/(60 mm x 45 mm) x 2.20 mm for outer frames, (66 mm x 38 mm)/(58 mm x 39 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,030.00
535	TBSC-M.II-10	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding windows with mesh shutter provision - (only 2-glass shutters) duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (80 mm x 52 mm)/ (94 mm x 45 mm) x 2.20 mm for outer frames, (54 mm x 38 mm)/(39 mm x 58 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work	1 Sqm	6,595.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
536	TBSC-M.II-11	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding windows with mesh shutter - (2-glass shutters and 1-mesh shutter) duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (94 mm x 45 mm)/(80 mm x 52 mm) x 2.20 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make and mesh shutter frame shall be (42 mm x 25 mm)/(52 mm x 21.5 mm) x 2.0 mm fitted with Vinyl Coated Fiber mesh- on rollers/ pulley duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,341.00
537	TBSC-M.II-12	Providing and fixing COMPOSITE SLIDING WINDOW fabricated from roll formed sections made of Galvanized Steel colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams /Sq.Mtr.) with total coated thickness of 0.58 mm, powder coated with pure Polyester Powder up to 50-60 microns thick and the section for external frame bottom of 68 x 25mm (Aluminium), External frame sides & Top of 68 x 25 mm (Aluminium), section for shutter of 59 x 23mm and Lap Strip of 30 x 7.5mm (uPVC) cut to length and mitre joined with L-bracket and 5 mm plain float Glass with Ethyl Propylene Diametertermine Monomer (EPDM) gasket, the corner bracket for external frame made of Aluminium 'L'-Angle, Corner Bracket for internal frame made of Polypropylene, Crescent Latch, Rollers, & EPDM Gaskets for shutters, wool pile for lap strip, Bump Stop Base & Rubber for shutter stopper including fixing to brick/concrete masonry using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames and fixing 10mm square guard bars with 6" pitch centre to centre (152.4mm) and all taxes completed for finished item of work	1 Sqm	5,952.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
538	TBSC-M.II-13	Providing and Fixing Pre painted Steel Sliding Door 3 Track-3 Panel Sliding Door fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58mm. Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick. Section for external frame should be of 107x44mm, Section for shutter should be of 35x67mm. The windows should be paneled with 5mm thick plain float glass. Corner bracket for internal and external frame made of glass filled nylon. Gaskets are to be made of Ethyl Propylene Diamine Monomer (EPDM).The sections are to be cut to length, joined and assembled by means of corner bracket. The above frames should be fixed to the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all Taxes complete for finished item of work.	1 Sqm	7,500.00
III	SUB-SECTION	VENTILLATORS		
539	TBSC-M.III-01	Supply and fixing of pre-painted steel top hung and fixed louvered ventilators made of pre - painted steel as per IS 513 of -0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint & 4 mm pinhead glass for ventilators with EPDM Gasket with handle made of high grade aluminium powder coated and nylon receiver, corner brackets made of CRCA with Zinc Phosphate, Mullion caps made of glass filled nylon, frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars with 6 pitch complete for finished item of work for (i) Ventilators: Top Hung 2 '-0 x 2'-0 (609.6x609.6mm) outer frame section size of 46mm x 52 mm shutter frame section size of 46mm x 46 mm and (ii) Ventilators: Top Hung 4 '-0 x 2'-0 (1219.2x609.6mm) outer frame section size of 46 x 52 m shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm and (iii) Ventilators: Top Hung 4 '-0 x 3'-0 (1219.2x914.4mm) outer frame section size of 46 x 52m m shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6,924.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
540	TBSC-M.III-02	Supply and fixing of pre-painted steel top hung and fixed louvered ventilators made of pre - painted steel as per IS 513 of -0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint & 4 mm pinhead glass for ventilators with EPDM Gasket with handle made of high grade aluminium powder coated and nylon receiver, corner brackets made of CRCA with Zinc Phosphate, Mullion caps made of glass filled nylon, frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars with 6 pitch complete for finished item of work for (i) Ventilators: Fixed louvers 2'-0 x 2'-0 (609.6x609.6mm)(Box section) outer frame section size of 33 x 56 mm and (ii) Ventilators: Fixed louvers 4'-0 x 2'-0 (1219.2 x 609.6 mm) (Box section) outer frame section size of 33 x 56 mm Mullion section size of 33 x 56 mm and (iii) Ventilators: Fixed louvers 4'-0 x 3'-0 (1219.2 x 914.4 mm) (Box section) outer frame section size of 33 x 56 mm Mullion section size of 33 x 56 mm	1 Sqm	4,737.00
541	TBSC-M.III-03	Providing and fixing of top hung Ventilators made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with a polyester paint with 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single open able ventilator shutter size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick and (ii) Double open able ventilator shutter Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm and (iii) Double open able fix shutter size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size of 80 x 45mm , shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm	1 Sqm	6,105.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
542	TBSC-M.III-04	Providing and fixing of louvered Ventilators made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with a polyester paint with and fitted with 4 mm thick plain float glass including fixing the frames in concrete/masonry wall by means of self expanding screws, etc., complete for finished item of work for (i) Single fixed Louvers Ventilator size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 80 x 45mm and (ii) Double fixed Louvers ventilator Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 80 x 45mm, vertical mullion section size of 80 x 60 mm and (iii) Double fixed Louvers Ventilator size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size of 80 x 45mm , Vertical mullion section size of 80 x 60 mm	1 Sqm	4,177.00
543	TBSC-M.III-05	Providing and fixing of top hung Ventilator with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc, finish painted with a polyester paint, section for fly-shutter of 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single open able ventilator shutter window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 100 x 45mm, Glazed and fly mesh shutter frame section size of 52 x 25mm thick and (ii) Double open able ventilator shutter window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 100 x 45mm, Glazed and fly mesh shutter frame section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm and (iii) Double open able fix shutter window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size 100 x 45mm , Glazed and fly mesh shutter frame section size 52 x 25 mm ,Vertical mullion section size of 100 x 60 mm	1 Sqm	7,551.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
544	TBSC-M.III-06	<p>Providing and fixing of top hung Ventilator with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc, finish painted with a polyester paint, section for fly-shutter of 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single fixed Louvers Ventilator window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 100 x 45mm, fly mesh shutter frame section size 52 x 25 mm and (ii) Double fixed Louvers ventilator window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 100 x 45mm, fly mesh shutter frame section size 52 x 25 mm, vertical mullion section size of 100 x 60 mm and (iii) Double fixed Louvers Ventilator window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size 100 x 45mm , fly mesh shutter frame section size 52 x 25 mm Vertical mullion section size of 100 x 60 mm</p>	1 Sqm	5,088.00
545	TBSC-M.III-07	<p>Providing, supplying & fixing of Fixed Louvered Ventilator made out of multi chambered uPVC sections with Glazing bead shall be co-extruded with Grey colour soft PVC. having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having an overall size of 60 mm x 55 mm x 2.40 with reinforcement of 1 mm thickness and Mullion with overall size of 74 mm x 60 mm x 2.40 mm with reinforcement of 1 mm thickness. (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin).Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware. Wall thickness of frame & Mullion shall be 2.4 mm.,including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.</p>	1 Sqm	6,606.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
546	TBSC-M.III-08	Providing, supplying & fixing of Top hung Ventilator With Exhaust Fan Provision made out of multi chambered uPVC sections with TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and reinforced with Galvanized Iron profiles throughout the window. The outer frame having a overall size of 60mm x 55 mm x 2.40 mm with reinforcement of 1 mm thickness, Mullion with overall size of 74 mm x 60 mm x 2.40 mm with reinforcement of 1 mm thickness and Sash with overall size of 75 mm x 60 mm x 2.40 mm with reinforcement of 1.0/1.2 mm thickness. (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin).Glazing bead for fixing of glass shall be of size 34 x 20 mm coextruded with soft PVC gasket. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, single point locking using cockspur handle and friction stays. Wall thickness of frame, mullion and sash shall be 2.4 mm.,including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	9,295.00
N	SECTION	STRUCTURAL GLAZING & CURTAIN WALLING		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	FIXED GLAZING		
547	TBSC-N.I-01	Supplying and fixing of curtain Glazing made of pre painted steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 Primer coated with epoxy, finish painted with a polyester paint using the section for outer frame of 46 x 52 mm, section for mullion of 46 x 70 mm and section for beading of 18 x 25 mm and the glazing with 5 mm thick plain float glass fitted with EPDM gaskets including handle made of high grade Aluminium powder coated and nylon receiver, corner brackets made of CRCA with zinc phosphating, mullion caps made of Glass filled nylon including fixing the frames in the concrete / masonry wall with self expanding screws, etc., complete for finished item.- Fixed Glazing 2'-0 x 2'-0 (609.6x609.6mm) and Fixed Glazing 2'-0 x 3'-0 (609.6x914.4mm)	1 Sqm	6,013.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
548	TBSC-N.I-02	Supplying and fixing of curtain Glazing made of pre painted steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 Primer coated with epoxy, finish painted with a polyester paint using the section for outer frame of 46 x 52 mm, section for mullion of 46 x 70 mm and section for beading of 18 x 25 mm and the glazing with 5 mm thick plain float glass fitted with EPDM gaskets including handle made of high grade Aluminium powder coated and nylon receiver, corner brackets made of CRCA with zinc phosphating, mullion caps made of Glass filled nylon including fixing the frames in the concrete / masonry wall with self expanding screws, etc., complete for finished item.- Fixed Glazing 3'-0 x 3'-0 (914.4x914.4mm) and Fixed Glazing 3'-0 x 4'-0 (914.4x1219.2mm)	1 Sqm	5,102.00
549	TBSC-N.I-03	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing - 48 series duly manufactured using UPVC reinforced profiles of 60 mm x 48 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 76 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	3,240.00
550	TBSC-N.I-04	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing - 56 series duly manufactured using UPVC reinforced profiles of 60 mm x 56 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 70 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	3,872.00
II	SUB-SECTION	STRUCTURAL GLAZING		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
551	TBSC-N.II-01	Providing and fixing Structural Glazing fabricated from Roll formed sections made of Pre-painted Steel / Powder coated base steel as per IS 513 of 'D' quality, galvanized as per IS 277 and the glass holding section made of 304 grade stainless steel of 0.58 mm thick galvanized steel section as stiffeners inside the colour coated steel powder coated sections as per the design requirement & calculations to suit wind pressures as given in IS: 875, the primer coat with epoxy primer, finish painted with a polyester paint or powder coated with pure polyester powder and the vertical section of 50 mm x 99 mm x 0.72 mm, 33 mm x 56 mm x 0.72 mm for frame horizontal section, stiffener section of 47 mm x 97 mm x 1 mm, cover profiles sections of 20 mm x 58 mm x 0.58 mm, glass holding section of 37 mm x 37 mm & 37 mm x 18 mm including fixing 5mm thick Ocean Blue reflective glass, brackets made of CRCA powder coated/Electroplated to connect vertical to horizontal, vertical to slab, to fix verticals at top & bottom as per site requirement and EPDM gasket, U.V. resistant silicon sealant including fixing in concrete/masonry wall with self-expanding cap & screws inclusive of cost and conveyance of all materials to site, all labour charges, incidental charges, cost of all consumables etc. and fixing charges excluding scaffolding complete for finished item of work.	1 Sqm	7,288.00
552	TBSC-N.II-02	Providing and fixing Top Hung shutters in Structural Glazing fabricated from Roll formed sections made of Pre-painted Steel / Powder coated base steel as per IS 513 of 'D' quality, galvanized as per IS 277 and the glass holding section made of 304 grade stainless steel of 0.58 mm thick, duly providing stiffeners inside the colour coated steel/powder coated sections as per the design requirement, calculations to suit wind pressures as given in IS 875 and primer coat with epoxy primer and powder coated with pure polyester powder up to 50-60 microns thick and the outer frame of 20 mm x 58 mm x 0.58 mm, shutter sections of 57 mm x 33 mm x 0.72 mm, stiffener sections of 55 mm x 31 mm x 1mm, hinges - 2 Nos for each shutter and aluminium Stays - 2 Nos. for each shutter, aluminium Handle - 1 no. for each shutter including cost and conveyance of all materials to site, all labour charges, incidental charges, cost of all consumables etc. and fixing charges etc excluding scaffolding complete for finished item of work	1 Sqm	5,891.00
III	SUB-SECTION	CURTAIN WALLING		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
553	TBSC-N.III-01	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Curtain Walling systems duly manufactured using UPVC reinforced profiles of 60 mm x 56 mm x 2.5 mm for outer frames, 60 mm x 70 mm x 2.5 mm for casement shutter frames and the mullion sections are of 60 mm x 70 mm x 2.5 mm or 60 mm x 62 mm x 2.5 mm for sliding shutter outer frames and 77 mm x 38 mm x 2.5 mm for sliding shutter frames structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant and accessories for casement window - friction stay hinges of stainless steel grade 304- 2 Nos., per sash, handle with mazak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation for sliding window - clipping locking system 1 No. made of aluminium including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing excluding scaffolding complete for finished item of work	1 Sqm	6,903.00
P	SECTION	FIXTURES FOR DOORS & WINDOWS		
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TOWER BOLTS		
554	TBSC-P.I-01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	177.00
555	TBSC-P.I-02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	260.00
556	TBSC-P.I-03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	347.00
557	TBSC-P.I-04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	431.00
558	TBSC-P.I-05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	530.00
559	TBSC-P.I-06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	77.00
560	TBSC-P.I-07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	95.00
561	TBSC-P.I-08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	114.00
562	TBSC-P.I-09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	141.00
563	TBSC-P.I-10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	170.00
564	TBSC-P.I-11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	198.00
565	TBSC-P.I-12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	534.00
566	TBSC-P.I-13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	676.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
567	TBSC-P.I-14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	26.00
568	TBSC-P.I-15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	38.00
569	TBSC-P.I-16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	56.00
570	TBSC-P.I-17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	75.00
571	TBSC-P.I-18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	93.00
II	SUB-SECTION	HINGES		
572	TBSC-P.II-01	Brass Butt hinges (IS:205)- 75 mm Long	Each	73.00
573	TBSC-P.II-02	Brass Butt hinges (IS:205)- 100 mm Long	Each	240.00
574	TBSC-P.II-03	Brass Butt hinges (IS:205)- 125 mm Long	Each	290.00
575	TBSC-P.II-04	Brass Butt hinges (IS:205)- 150 mm Long	Each	383.00
576	TBSC-P.II-05	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	111.00
577	TBSC-P.II-06	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	132.00
578	TBSC-P.II-07	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	159.00
579	TBSC-P.II-08	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	165.00
580	TBSC-P.II-09	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	12.00
581	TBSC-P.II-10	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	23.00
582	TBSC-P.II-11	MS-Powder Coated Butt hinges (IS:205)- 125 mm Long	Each	34.00
583	TBSC-P.II-12	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	44.00
584	TBSC-P.II-13	Deluxe window stay Aluminium	Each	144.00
585	TBSC-P.II-14	Brass Windows Stay	Each	224.00
586	TBSC-P.II-15	GI Powder Coated Friction stay hinges of 10" Long for windows	Each	235.00
587	TBSC-P.II-16	Continuous Piano Hinges Powder coated Mild steel as per IS-3818 : 1992 of nominal size 25 mm (B) of thickness 0.8 to 1.0 mm	1 RM	35.00
588	TBSC-P.II-17	Box hinges for cup boards	1 Each	45.00
589	TBSC-P.II-18	GI Powder Coated Friction stay hinges of 14" Long for windows	1 Each	330.00
III	SUB-SECTION	DOOR HANDLES		
590	TBSC-P.III-01	Aluminium Door Handles (IS:208) 75 mm Long	Each	75.00
591	TBSC-P.III-02	Aluminium Door Handles (IS:208) 100 mm Long	Each	84.00
592	TBSC-P.III-03	Aluminium Door Handles (IS:208) 125 mm Long	Each	126.00
593	TBSC-P.III-04	Aluminium Door Handles (IS:208) 150 mm Long	Each	140.00
594	TBSC-P.III-05	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	34.00
595	TBSC-P.III-06	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	50.00
596	TBSC-P.III-07	Brass fancy handles 150 mm	Each	335.00
597	TBSC-P.III-08	Brass fancy handles 200 mm	Each	454.00
598	TBSC-P.III-09	Brass fancy handles 250 mm	Each	819.00
599	TBSC-P.III-10	Brass fancy handles 300 mm	Each	1,045.00
600	TBSC-P.III-11	Brass fancy handles 450 mm	Each	1,635.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
601	TBSC-P.III-12	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	348.00
602	TBSC-P.III-13	Keyless lock set for toilet doors with brass knob handles	Each	921.00
603	TBSC-P.III-14	Hard Nylon Window Handle	Each	70.00
IV	SUB-SECTION	ALDROPS		
604	TBSC-P.IV-01	Brass Aldrop (IS:2681) 300 mm long	Each	1,284.00
605	TBSC-P.IV-02	Brass Aldrop (IS:2681) 350 mm long	Each	2,473.00
606	TBSC-P.IV-03	Brass Aldrop (IS:2681) 450 mm long	Each	3,522.00
607	TBSC-P.IV-04	Aluminium Aldrop (IS:2681) 200 mm long	Each	329.00
608	TBSC-P.IV-05	Aluminium Aldrop (IS:2681) 250 mm long	Each	391.00
609	TBSC-P.IV-06	Aluminium Aldrop (IS:2681) 300 mm long	Each	425.00
610	TBSC-P.IV-07	MS-Powder Coated Aldrop (IS:2681) 200 mm long	Each	115.00
611	TBSC-P.IV-08	MS-Powder Coated Aldrop (IS:2681) 250 mm long	Each	151.00
612	TBSC-P.IV-09	MS-Powder Coated Aldrop (IS:2681) 300 mm long	Each	181.00
V	SUB-SECTION	LATCHES		
613	TBSC-P.V-01	Brass latch heavy 300 mm	Each	644.00
614	TBSC-P.V-02	Brass latch heavy 350 mm	Each	740.00
615	TBSC-P.V-03	Brass latch heavy 450 mm	Each	976.00
616	TBSC-P.V-04	Aluminium Flat Latches: 200 mm long	Each	159.00
617	TBSC-P.V-05	Aluminium Flat Latches: 250 mm long	Each	179.00
618	TBSC-P.V-06	Aluminium Flat Latches: 300 mm long	Each	188.00
619	TBSC-P.V-07	MS-Powder Coated Flat Latches: 250 mm long	Each	58.00
620	TBSC-P.V-08	MS-Powder Coated Flat Latches: 300 mm long	Each	73.00
VI	SUB-SECTION	DOOR CLOSURES		
621	TBSC-P.VI-01	Providing and fixing Cast Iron Body Bottle Type Hydraulic Door Closer (IS: 3564) with double speed adjustment, with necessary accessories and screws etc. complete	Each	1,035.00
622	TBSC-P.VI-02	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-1: for width of doors up to 700 mm)	Each	1,198.00
623	TBSC-P.VI-03	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-2: for width of doors 701 to 850 mm)	Each	1,282.00
624	TBSC-P.VI-04	Providing and fixing Aluminium Extruded Section Body Tubular Type Hydraulic Door Closer (IS: 3564) with double speed adjustment with necessary accessories and screws etc. complete (Type-3: for width of doors 851 to 1000 mm)	Each	1,345.00
VII	SUB-SECTION	FLOOR SPRINGS		
625	TBSC-P.VII-01	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1,912.00
626	TBSC-P.VII-02	Double action Brass cover plate and cast brass body floor spring (IS 6315- Table-1)	Each	4,536.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
627	TBSC-P.VII-03	Providing and fixing double action brass cast hydraulic floor spring (IS:6315-Table 1) for doors including cost of cutting floors as required, embedding in floors and S.S./ Brass cover plates with brass pivot and single piece M.S. Sheet outer box with slide plate etc. complete (door weight capacity up to 130 Kgs)	Each	3,788.00
628	TBSC-P.VII-04	Providing and fixing double action brass cast hydraulic floor spring (IS:6315-Table 1) for doors including cost of cutting floors as required, embedding in floors and S.S. cover plates with brass pivot and single piece M.S. Sheet outer box with slide plate etc. complete (door weight capacity up to 80 Kgs)	Each	2,816.00
629	TBSC-P.VII-05	Providing of brass cast body Floor Spring IS: 6315 sleek in size with the S.S. / Brass Cover plates of Length 320 mm x Breadth 130 mm size along with the Top Patch, Bottom Patch, Door Lock and Pivot with Double Cylinder etc. complete for Heavy duty Glass doors.	Each	12,513.00
VIII	SUB-SECTION	MORTICE LOCKS		
630	TBSC-P.VIII-01	Heavy duty mortice lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	935.00
631	TBSC-P.VIII-02	Heavy duty mortice lock 6/7 levers (IS:2209) with brass heavy handles	Each	2,405.00
IX	SUB-SECTION	OTHER ACCESSORIES		
632	TBSC-P.IX-01	Brass Door Stoppers	Each	198.00
633	TBSC-P.IX-02	MS-Powder Coated - Door Stoppers	Each	50.00
634	TBSC-P.IX-03	Heavy duty Aluminium Door stopper	Each	63.00
635	TBSC-P.IX-04	Rubber/ Nylon door stop bushes	1 Each	10.00
636	TBSC-P.IX-05	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	128.00
637	TBSC-P.IX-06	Supply & fixing drapery bracket - brass powder coated	pair	451.00
638	TBSC-P.IX-07	Nylon rollers for sliding glasses/ aluminium windows	1 Each	15.00
639	TBSC-P.IX-08	MS Z Hold fasts - 300 mm long of 40 x 40 x 5 mm ISA	1 Each	35.00
640	TBSC-P.IX-09	Magnetic Catchers	1 Each	15.00
Q	SECTION	CONSTRUCTION CHEMICALS & ADMIXTURES		
		Approved brands, area of application, dosage etc have been appended to this SoR for the guidance for preparation of estimates only. However, literature for usage/ application of construction/ water proofing materials, epoxies etc, may be obtained from the manufacturers, while in execution.		
I	SUB-SECTION	PLASTICIZERS		
641	TBSC-Q.I-01	Concrete Plasticizers and Water reducing admixture Conforming to IS:9103-1999	1 Ltr	200.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
642	TBSC-Q.I-02	Early High Strength, High water retention, polycarboxylic plasticizers Conforming to IS:9103-1999	1 Kg	140.00
643	TBSC-Q.I-03	High performance super plasticizer and water reducing admixture Conforming to IS: 9103-1999	1 Kg	95.00
644	TBSC-Q.I-04	Super plasticizer for high range water reducing admixture Conforming to IS: 9103-1999	1 Kg	105.00
645	TBSC-Q.I-05	Super plasticizer, high range water reducing and retarding admixture complying with IS: 9103-1999	1 Kg	115.00
646	TBSC-Q.I-06	Plasticizer for accelerator for sprayed concrete Conforming to IS: 9103-1999.	1Kg	85.00
II	SUB-SECTION	WATER PROOFING COMPOUNDS		
647	TBSC-Q.II-01	Integral Cement Waterproofing Liquid Conforming to IS: 2645-2003	1 Ltr	210.00
648	TBSC-Q.II-02	High durable cementitious acrylic based waterproofing systems	1 Kg	134.00
649	TBSC-Q.II-03	Acrylic Polymer Elastomeric Cementitious Waterproof Coatings	1 Ltr	350.00
650	TBSC-Q.II-04	Single component, elastomeric waterproof membrane coating	1 Ltr	425.00
651	TBSC-Q.II-05	Quick setting, rapid hardening and water proofing compound Conforming to IS: I.S. 2645-2003	1 Ltr	80.00
652	TBSC-Q.II-06	Highly Flexible Waterproof Acrylic Elastomeric bituminous Blended Coatings	1 Ltr	300.00
III	SUB-SECTION	BONDING AGENTS		
653	TBSC-Q.III-01	Acrylic based Bonding adhesive	1 Ltr	150.00
654	TBSC-Q.III-02	Styrene butadiene rubber based bonding agent	1 Kg	450.00
655	TBSC-Q.III-03	Two Parts system of Epoxy Bonding adhesive Conforming to ASTM-C 881	1 Kg	870.00
IV	SUB-SECTION	ANTI-CORROSIVE AGENTS		
656	TBSC-Q.IV-01	Acrylic based Anti corrosive coating	1 Ltr	350.00
657	TBSC-Q.IV-02	Rust converter –rust encapsulating coating for steel	1 Ltr	480.00
658	TBSC-Q.IV-03	High range of reinforcement / steel protector against corrosion zinc rich epoxy resin primer	1 Kg	750.00
659	TBSC-Q.IV-04	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture	1 Lit	345.00
V	SUB-SECTION	GROUTS		
660	TBSC-Q.V-01	High Power Polyester Resin Anchor Grout Conforming to ASTM-827	1 Kg	300.00
661	TBSC-Q.V-02	Non-shrink Free flow high strength precision grout Conforming to BS 1881 Part 1161983.	1 Kg	34.00
662	TBSC-Q.V-03	Low viscosity Epoxy resin injection grout	1 Kg	800.00
663	TBSC-Q.V-04	Three component epoxy grout Conforming to IS: ASTM 827 (Three components)	1 Kg	160.00
VI	SUB-SECTION	MISCELLANEOUS CHEMICALS		
664	TBSC-Q.VI-01	Mould / Shutter releasing oil	1 Ltr	145.00
665	TBSC-Q.VI-02	Non oxidizing, heavy duty metallic Floor Hardeners	1 Kg	37.00
666	TBSC-Q.VI-03	Non-metallic Floor Hardeners	1 Kg	30.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
667	TBSC-Q.VI-04	High Strength, Non shrink Micro Concrete for structural repair product.	1 Kg	36.00
668	TBSC-Q.VI-05	Structural graded polymer modified reinstatement concrete / mortar (Two Part System)	1 Kg	85.00
669	TBSC-Q.VI-06	Three Component high performance elastomeric mortar.	1 Kg	950.00
670	TBSC-Q.VI-07	Surface treatment crystalline product.	1 Kg	360.00
671	TBSC-Q.VI-08	Polyurethane Sealant. 600 ml tube	1 No	730.00
672	TBSC-Q.VI-09	Polysulphide Sealant.	1 Kg	450.00
673	TBSC-Q.VI-10	Acrylic Latex caulking compound.	1 Kg	335.00
674	TBSC-Q.VI-11	Fast setting cement based plugging compound	1 Kg	85.00
675	TBSC-Q.VI-12	Highly Flexible High Range Polyurethane surface coatings	1 Ltr	650.00
676	TBSC-Q.VI-13	Coal Tar Epoxy	1 Kg	350.00
677	TBSC-Q.VI-14	Water Based Acrylic Blended High power curing compound	1 Kg	100.00
678	TBSC-Q.VI-15	Bituminous hot sealing compound	1 Kg	120.00
679	TBSC-Q.VI-16	Bitumen solution primer coating.	1 Kg	85.00
680	TBSC-Q.VI-17	Air Entraining Agent Conforming to IS: 9103-99	1 Ltr	120.00
681	TBSC-Q.VI-18	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1 Liter	228.00
VII	SUB-SECTION	REPAIRING & TREATMENT WORKS		
682	TBSC-Q.VII-01	Providing Tar Felting roof repair with approved brand Tar Felt duly applying one coat of appropriate grade of bitumen in hot condition @ 0.2 Kg/1 Sqm of roof area, fixing tar felt (Conforming to IS 1322-1972 specification), applying second coat of appropriate grade of hot bitumen at 1.20 Kg / 1 Sqm of roof area and spreading course aggregate (sand) at 0.063 Cum per 1 Sqm of roof area finished item.	1 Sqm	260.00
683	TBSC-Q.VII-02	Providing waterproofing treatment by supplying and fixing synthetic membrane felt of 1.50 mm thickness, 2.25 Kg per Sq. Mtr. duly applying one coat of Bituminous Emulsion, first coat of bituminous grade 85/25, fix waterproofing membrane, applying second coat of bitumen grade 90/15 after sealing all the joints and abutments with a Gas torch and applying one coat of bituminous aluminum paint for heat resistance for finished item.	1 Sqm	360.00
684	TBSC-Q.VII-03	Providing and laying of 3mm thick app modified bitumen membrane treatment to the terrace duly [1]removing of existing tar felt. [2]cleaning of the surface from dirt, dust and other contaminations. [3]application of one coat of Bitumen primer [4]providing and laying of 3mm thick APP Modified Bitumen Membrane with 100 mm overlap fixing with butane torch.	1 Sqm	490.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
685	TBSC-Q.VII-04	Providing specialized high performance acrylic polymer modified elastomeric cementitious waterproof coating to the terrace / walls / internal portion of the bathroom & toilets / internal portion of the water tanks duly cleaning of the surface from dirt, dust and other contaminations, providing and application of Two coats of High performance Acrylic polymer modified Elastomeric cementitious waterproof coating (1.8 Sq. Mtr. / Kg /Each Coat)	1 Sqm	390.00
686	TBSC-Q.VII-05	Providing specialized high build, elastomeric acrylic bituminous blended coating to the terrace / internal portion of the bathroom / toilets / basements / roofing duly a). Cleaning of the surface. b). Applying primer coat of High Build, Elastomeric Acrylic Bituminous Blended Coating c). Application of Two coats of High Build, Elastomeric Acrylic Bituminous Blended Coating	1 Sqm	360.00
687	TBSC-Q.VII-06	Providing specialized high solid, cold applied, acrylic elastomeric liquid membrane coating treatment to the terrace / roofing with fiber mesh / geo fabric duly a. Cleaning of the surface from dirt, dust and other contaminations. b. Applying one coat of High solid, Cold applied, Acrylic Elastomeric Liquid Membrane coating c. immediately, Application of one coat of High solid, Cold applied, Acrylic Elastomeric Liquid Membrane coating e. Laying of fiber mesh 40 GSM / Geo fabric 40 GSM on the surface. f. Over the Fiber mesh, Application of two coats of High solid, cold applied, Acrylic Elastomeric Liquid Membrane Coating	1 Sqm	570.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
688	TBSC-Q.VII-07	Providing specialized polysulphide sealant treatment to the expansion joints (Size : 25mm x 12mm) duly a]. Chipping and removing of existing covering on expansion joints b]. Cleaning of the surface from dirt, dust and other contaminations c].Application of one coat of - High performance specially designed SBR latex polymer based bonding agent d]. Providing and application of Acrylic Polymer modified reinstatement concrete /mortar to the damaged edges of joint and making the groove. e]. Providing and fixing of masking tape on top of the joint both sides f]. Providing and fixing of Back up support material of Backer rod to leave the depth of 12mm on the joint g]. Providing and application of one coat of polysulphide primer on inner edges of Joint. h]. Providing and application of Two part Polysulphide sealant to a width of 25mm and 12mm depth with putty knife and neat finish i]. Removing of masking tape and providing and application of two coats of Acrylic elastomeric cementitious coating	1 RM	650.00
689	TBSC-Q.VII-08	Pressure grouting the drilled holes with neat cement slurry or with approved grout admixture using pump - excluding cost of drilling holes	1 Each	50.00
VIII	SUB-SECTION	EXPANSION JOINTS		
690	TBSC-Q.VIII-01	Supply of high performance expansion joint filler board conforming to IS: 1838 - 18 mm THICK	1 Sqm	804.00
691	TBSC-Q.VIII-02	Supply of high performance expansion joint filler board conforming to IS: 1838 - 20 mm THICK	1 Sqm	902.00
692	TBSC-Q.VIII-03	Supply of high performance expansion joint filler board conforming to IS: 1838 - 25 mm THICK	1 Sqm	1,127.00
693	TBSC-Q.VIII-04	Supply of expansion joint filler board conforming to IS: 1838 for buildings, columns, beams and slabs 20 mm THICK	1 Sqm	322.00
694	TBSC-Q.VIII-05	Supply of expansion joint filler board conforming to IS: 1838 for buildings, columns, beams and slabs 25 mm THICK	1 Sqm	403.00
695	TBSC-Q.VIII-06	Supply of expansion joint filler board conforming to IS: 1838 for buildings, columns, beams and slabs 50 mm THICK	1 Sqm	804.00
696	TBSC-Q.VIII-07	Supply of back up to cold applied gun-grade polysulphide sealant conforming to IS:11433 (Part-1) in construction and longitudinal joint - 10 mm OD	1 RM	13.00
697	TBSC-Q.VIII-08	Supply of back up to cold applied gun-grade polysulphide sealant conforming to IS:11433 (Part-1) in construction and longitudinal joint - 12 mm OD	1 RM	15.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
698	TBSC-Q.VIII-09	Supply of back up to cold applied gun-grade polysulphide sealant conforming to IS:11433 (Part-1) in construction and longitudinal joint - 15 mm OD	1 RM	18.00
699	TBSC-Q.VIII-10	Supply of back up to cold applied gun-grade polysulphide sealant conforming to IS:11433 (Part-1) in construction and longitudinal joint - 20 mm OD	1 RM	26.00
700	TBSC-Q.VIII-11	Supply of back up to cold applied gun-grade polysulphide sealant conforming to IS:11433 (Part-1) in construction and longitudinal joint - 25 mm OD	1 RM	32.00
R	SECTION	MISCELLANEOUS ITEMS		
701	TBSC-R.I-01	Supply of White Cement conforming to IS:8042-1989	1 Kg	31.00
702	TBSC-R.I-02	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	670.00
703	TBSC-R.I-03	Supply of Aluminium anodized Sections for Doors, partitions, windows, Ventilators (including anodization cost) conforming to IS: 11857 - 1986	1 Kg	321.00
704	TBSC-R.I-04	Providing Powder coating as per IS:13871-1993 or colour anodization as per IS:7088-1973 - on any aluminium or mild steel section	1 Kg	32.00
705	TBSC-R.I-05	Providing hot dip galvanizing to any steel section as per IS:2629-1985	1 Kg	20.00
706	TBSC-R.I-06	Supply of Clear Silicone Sealant (Glass Glue Sealant) of Gun Applicator grade	1 Kg	233.00
707	TBSC-R.I-07	Supply of Sun Control film to the glazed windows partition including labour charges.	1 Sqm	329.00
708	TBSC-R.I-08	Supply of Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 Sqm	838.00
709	TBSC-R.I-09	Supply of Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 Sqm	798.00
710	TBSC-R.I-10	Supply of Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 Sqm	1,355.00
711	TBSC-R.I-11	Supply of Rubber Beading for glass fixing	1 RM	2.00
712	TBSC-R.I-12	Supply of Soft Brush for painting, varnishing etc	Each	148.00
713	TBSC-R.I-13	Supply of Wire Brush for scraping	Each	33.00
714	TBSC-R.I-14	Providing and fixing PVC door cladding to the flush doors shutters, for the new doors it shall be pasted with synthetic glue or nailed to the old doors. complete as per direction of Engineer -in - charge, manufacturers specification and drawing - 1 mm thick	1 Sqm	388.00
715	TBSC-R.I-15	Providing and fixing PVC door cladding to the flush doors shutters, for the new doors it shall be pasted with Synthetic glue SSR 998 or nailed to the old doors. complete as per direction of Engineer -in - charge, manufacturers specification and drawing - 1.5 mm thick	1 Sqm	443.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
716	TBSC-R.I-16	Providing and fixing PVC door cladding to the flush doors shutters, for the new doors it shall be pasted with Synthetic glue SSR 998 or nailed to the old doors. complete as per direction of Engineer -in -charge, manufacturers specification and drawing - 2.0 mm thick	1 Sqm	500.00
717	TBSC-R.I-17	Supplying and fixing aluminium composite cladding with skin material 0.25 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, scaffolding charges, if any, ACP Cladding - 3 mm thick	1 Sqm	2,586.00
718	TBSC-R.I-18	Supplying and fixing aluminium composite cladding with skin material 0.25 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, scaffolding charges, if any, ACP Cladding - 4 mm thick	1 Sqm	2,820.00
719	TBSC-R.I-19	Supplying and fixing aluminium composite cladding with skin material 0.5 mm thick aluminium sheet cover material natural polyethylene aluminium cladding panel fixed with extruded aluminium basis frame (50x25x1.5mm) angle cleats, weather sealants, rivets, GI brackets all as approved, using suitable bolts on structural steel work including necessary accessories complete in all respects including all labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, scaffolding charges, if any, ACP Cladding - 4 mm thick	1 Sqm	3,163.00
720	TBSC-R.I-20	S&F of pre-cast RCC Grills of any design of 25 mm thick manufactured with M-30 grade of concrete using vibro-compaction process using joint less FRP moulds to achieve shuttering finish and adequately reinforced for long use and to prevent damage during handling, transportation & erection etc.,	1 Sqm	378.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
721	TBSC-R.I-21	S&F of pre-cast RCC Grills of any design of 40 mm thick manufactured with M-30 grade of concrete using vibro-compaction process using joint less FRP moulds to achieve shuttering finish and adequately reinforced for long use and to prevent damage during handling, transportation & erection etc.,	1 Sqm	527.00
722	TBSC-R.I-22	S&F of pre-cast RCC Grills of any design of 50 mm thick manufactured with M-30 grade of concrete using vibro-compaction process using joint less FRP moulds to achieve shuttering finish and adequately reinforced for long use and to prevent damage during handling, transportation & erection etc.,	1 Sqm	620.00
723	TBSC-R.I-23	Supply of Aluminium sheet 24 Gauge	1 Sqm	302.00
724	TBSC-R.I-24	Supply of 7.5mm thick Aluminium Grill (as approved by the department) 3.58 Kg/1 Sqm	1 Sqm	1,112.00
725	TBSC-R.I-25	Design, fabrication & supply of light weight pre engineered buildings for a maximum span of 9 meters with 50 x 50 x 2.8 mm M.S hollow square tubes for columns, trusses & purlins walls with sandwich panels made up of 2 Nos 10mm thick cement bonded particle/ fibre boards with 25mm thick 12 kg/cum density expanded polystyrene in between encased in 1.25 mm thick 24x7x26 mm 'W' tracks in bottom & top and 'H' section for sides with doors, windows & ventilators, roofing with 26 gauge pre painted profiled sheets fixed with self tapping/ drilling screws, painting with enamel paint for steel items, OBD for interiors and ace for exteriors & providing base plates, templates & anchor bolts along with civil foundation designs & drawings for the finished item of work		
726	TBSC-R.I-26	Steel Structure: - Structure is made up of 50x50x2.8 m/33x66x2.8mm thick hollow M.S. sections for Trusses, columns, and purlins. - Columns	1 RM	415.00
727	TBSC-R.I-27	Sandwich panels: Sandwich panels of 50 mm thick with 25 mm thermocol of 12 kg / cum, fixed in between 2 Nos 10 mm cement bonded wood particle / fibre boards properly fixed together with 30 mmx30mmx30mm wood pieces along width & length wherever necessary	1 Sqm	1,501.00
728	TBSC-R.I-28	U' Tracks & 'H' Section:- Bottom & Top 'U' Tracks are made of 1.25 mm thick 120 GSM G.I. Sheet of size 24x51x26 mm size.	1 RM	162.00
729	TBSC-R.I-29	Fabricated 'H' sections are made up of 2 Nos 1.25 mm thick C.R. Of 40 mm width for flanges and 1 Nos of 2 mm thick C.R. of 50 mm width plate for web. will be used	1 RM	236.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
730	TBSC-R.I-30	Sandwich Panel joinery is made up of couplers or equivalent made from 0.6 mm G.I. roll formed section to hold 2 Nos of 10 mm board on both sides with 25 mm thermocol in between.	1RM	253.00
731	TBSC-R.I-31	Window:- windows are made up of 51 x51 mm step 'U' section made from 1.25 thick MS Cold rolled Steel Sheet and Windows Shutters & Grill are made of 48x25mm mm size pre painted section with 4 mm glass complete with necessary hardware. Grills are made from 8 mm square rod at 100 mm spacing.	1 Sqm	4,591.00
732	TBSC-R.I-32	Door Frames :-51 X 51 Stepped 'U' section made from 1.25 mm thick C.R. section with a 32 mm rebate for 30 mm flush door and Door Shutters with 30 mm thick block board / flush doors with boiling water proof plywood complete with necessary Hard ware.	1 Sqm	4,394.00
733	TBSC-R.I-33	Ventilators:- Ventilators are made of 51x51 mm step 'U' section made From 1.25 mm thick C.R. sheet with fixed louvers and glass.	1 Sqm	4,917.00
734	TBSC-R.I-34	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	124.00
735	TBSC-R.I-35	2) Exterior walls are painted with one coast of primer and 2 coats of exterior emulsion paint .	1 Sqm	111.00
736	TBSC-R.I-36	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	97.00
737	TBSC-R.I-37	Toilets: - Toilets are provided as per plan with a provision for fixing the wash basin, W.C. etc only is made with M.S. steel section secured to the walls with toilet bracket provision excluding cost of WC/ Wash basin etc	Each	1,050.00
738	TBSC-R.I-38	Sun shades: - Sun shades will be provided wherever necessary with 300 mm more than the width of window. 25x25 mm angle frame to cover 450 mm in the front and the sides. 10mm cement bonded particle board will be fixed on the frame work and sealed with green paste or equivalent.	Each	3,541.00
739	TBSC-R.I-39	Roofing: - Roofing will be provided with 0.5mm thick galvanized / pre painted G.I. profiled sheets fixed to the purlins with 14 size self drilling screws with neoprene washer. Side laps are stitched with self tapping / drilling screws. End laps are to be sealed with 25x3 mm Butyl tape. The sheets are provided with anti capillary grove.	1 Sqm	799.00
740	TBSC-R.I-40	Preparing gabions with jungle wood	Each	3.00
741	TBSC-R.I-41	Planting plants	Each	2.00
742	TBSC-R.I-42	Pruning plants	Each	2.00
743	TBSC-R.I-43	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	6.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
744	TBSC-R.I-44	Maintaining avenues including fencing, weeding, mulching, watering etc per plant When scattered in hot weather with extra conveyance from March to June	Each	7.00
745	TBSC-R.I-45	Hoisting or lowering of slab	1 cum	105.00
746	TBSC-R.I-46	Drilling holes in hard rock surfaces up to 18mm Diameter	1 RM	247.00
747	TBSC-R.I-47	Drilling holes in hard rock above 18mm Diameter	1 RM	344.00
748	TBSC-R.I-48	Making holes up to 18mm Diameter in RCC/ any stones up to 50 mm thick	1 Each	41.00
749	TBSC-R.I-49	Making holes above 18mm Diameter in RCC/ any stones above 50 mm thick	1 Each	57.00
750	TBSC-R.I-50	Supplying EPDM Gasket for windows panes to the PPS shutter	1 RM	35.00
751	TBSC-R.I-51	Supplying SS 304 Grade Heavy Duty Pivot Hinges for windows	1 Each	85.00
S	SECTION	MACHINERY & OTHER HIRE CHARGES		
752	TBSC-S.I-01	Machine charges of rubbing/ polishing floor	1 Hr	268.00
753	TBSC-S.I-02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	125.00
754	TBSC-S.I-03	Power Drill - Hand Operated - Hire Charges	1 Hr	116.00
755	TBSC-S.I-04	Grinding Mortar (Special Grinding)	1 Hr	134.00
756	TBSC-S.I-05	Casuarinas Balli Props - 3" to 4" Diameter - 12'-0" Height	Each	73.00
757	TBSC-S.I-06	Casuarinas Balli Props - 4" to 8" Diameter - 20'-0" Height	Each	121.00
758	TBSC-S.I-07	Wall Plate Brackets / beam bottom supports	Each	212.00
759	TBSC-S.I-08	Wedge Plate fixture	Each	10.00
760	TBSC-S.I-09	Runner beams of approximately 4" x 4" size	RM	425.00
761	TBSC-S.I-10	Steel Plates for form works	1 Sqm	1,609.00
762	TBSC-S.I-11	Scaffolding Pipes & Centering accessories	1 Kg	121.00
763	TBSC-S.I-12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	130.00
764	TBSC-S.I-13	Hire charges for stationary Concrete pump conforming to IS 21573 Part-1: 2006 to deliver the fresh green concrete	1 Hr	342.00
765	TBSC-S.I-14	Concrete delivery pipes conforming to IS 15947 Part I: 2012 to be connected to the pump to delivery point (150 mm Diameter) hire charges per 10 RM	1 Hr	4.00
T	SECTION	LABOUR CHARGES		
766	TBSC-T.I-01	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 0.0 M to 1.0 M	1 cum	240.00
767	TBSC-T.I-02	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 1.0 M to 2.0 M	1 cum	284.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
768	TBSC-T.I-03	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 2.0 M to 3.0 M	1 cum	331.00
769	TBSC-T.I-04	Bailing out water for earth work excavation / for concrete foundation below water level. (For building items only) Sandy soil - 0.0 M to 1.0 M	1 cum	381.00
770	TBSC-T.I-05	Bailing out water for earth work excavation /for concrete foundation below water level. (For building items only) Sandy soil - 1.0 M to 2.0 M	1 cum	592.00
771	TBSC-T.I-06	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) Sandy soil - 2.0 M to 3.0 M	1 cum	715.00
772	TBSC-T.I-07	Labour charges for making, fabricating office racks, cup-board shutters etc with ply-wood/ MDF sheets, decolam/ veneer laminations including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, pasting sheets/ laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings	1 Sqm	600.00
773	TBSC-T.I-08	Labour charges for making, fabricating kitchen furniture, cup-boards with shutters, box cup-boards, box racks, work-station furniture etc with ply-wood/ MDF sheets, decolam/ veneer laminations including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, pasting sheets/ laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings	1 Sqm	917.00
774	TBSC-T.I-09	Labour charges for making, fabricating any aluminium door/ window/ glazing including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, fixing in position with necessary screws excluding cost of materials, accessories, fittings excluding cost of annodization	1 Sqm	467.00
775	TBSC-T.I-10	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	1 Rm	104.00
776	TBSC-T.I-11	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	315.00
777	TBSC-T.I-12	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	408.00
778	TBSC-T.I-13	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	1 RM	16.00
779	TBSC-T.I-14	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	1 Rm	49.00
780	TBSC-T.I-15	Grooves 2-3 mm	1 Rm	55.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
781	TBSC-T.I-16	Labour charges for fabricating steel works like Window Grills, Compound Wall Grills, Iron Doors, Windows including cost of welding rods, power charges, excluding cost of fixing in position	1 Kg	26.00
782	TBSC-T.I-17	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	1 Kg	4.00
783	TBSC-T.I-18	Labour charges for fabricating all structural steel works like heavy steel works like Trusses, Stanchions, Heavy Beams and Girders including cost of welding rods, power charges, etc excluding cost of fixing in position	1 Kg	23.00
784	TBSC-T.I-19	Labour charges for erecting & fixing all structural steel works like heavy iron grills, Trusses, Stanchions, Heavy Beams and Girders erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position	1 Kg	21.00
785	TBSC-T.I-20	Labour charges for Fabrication of stainless steel railing works using stainless steel welding rods including buffing, polishing, lacquer finishing, to present seamless finish	1 Kg	130.00
786	TBSC-T.I-21	Labour charges for Fabrication of stainless steel sheet cladding works using stainless steel welding rods including buffing, polishing, lacquer finishing, to present seamless finish	1 Sqm	1,742.00
787	TBSC-T.I-22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	948.00
788	TBSC-T.I-23	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Reverse Etching work	1 Sqm	1,172.00
789	TBSC-T.I-24	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1,465.00
790	TBSC-T.I-25	Labour charges for fixing Flush door shutters of any thickness to the existing door frame including fixing the fixtures to the door shutter excluding cost of shutter	1 Sqm	380.00
791	TBSC-T.I-26	Labour charges for fixing glass panes of any thickness to the existing door / window panes including fixing the beading excluding cost of beading	1 Sqm	284.00
792	TBSC-T.I-27	Labour charges for wrought and put up including fixing in position for Teak wood Fully panelled doors external or internal including frame	1 Sqm	1633.00
793	TBSC-T.I-28	Labour charges for wrought and put up including fixing in position for Teak wood Glazed and panelled doors including fixing glass including frame	1 Sqm	1516.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
794	TBSC-T.I-29	Labour charges for wrought and put up including fixing in position for Teak wood Framed and planked doors including frame	1 Sqm	1354.00
795	TBSC-T.I-30	Labour charges for wrought and put up including fixing in position for Teak wood Ledged, braced and planked doors including frame	1 Sqm	1059.00
796	TBSC-T.I-31	Labour charges for wrought and put up including fixing in position for Teak wood Flush type door shutter including frame	1 Sqm	765.00
797	TBSC-T.I-32	Labour charges for wrought and put up including fixing in position for Teak wood Windows glazed including outer frame and shutter frame	1 Sqm	1023.00
798	TBSC-T.I-33	Labour charges for wrought and put up including fixing in position for Teak wood Windows panelled including outer frame and shutter frame	1 Sqm	1575.00
799	TBSC-T.I-34	Labour charges for wrought and put up including fixing in position for Teak wood Windows ledged, braced and planked including outer frame	1 Sqm	1077.00
800	TBSC-T.I-35	Labour charges for wrought and put up including fixing in position for Teak wood Windows framed and planked including outer frame and shutter frame	1 Sqm	1286.00
801	TBSC-T.I-36	Labour charges for wrought and put up including fixing in position for Teak wood Ventilators glazed, fixed with double frame with wire netting including frame	1 Sqm	796.00
802	TBSC-T.I-37	Labour charges for wrought and put up including fixing in position for Teak wood Swing ventilators glazed including outer frame and shutter frame	1 Sqm	1025.00
803	TBSC-T.I-38	Labour charges for wrought and put up including fixing in position for Teak wood Weld mesh doors and windows including outer frame and shutter frame	1 Sqm	547.00
804	TBSC-T.I-39	Labour charges for wrought and put up including fixing in position for Teak wood G.I or .AC sheet door & windows including outer frame and shutter frame	1 Sqm	626.00
805	TBSC-T.I-40	Labour charges for wrought and put up including fixing in position for Other than teakwood Fully panelled doors external or internal including frame	1 Sqm	1446.00
806	TBSC-T.I-41	Labour charges for wrought and put up including fixing in position for Other than teakwood Glazed and panelled doors including fixing glass including frame	1 Sqm	1364.00
807	TBSC-T.I-42	Labour charges for wrought and put up including fixing in position for Other than teakwood Framed and planked doors including frame	1 Sqm	1199.00
808	TBSC-T.I-43	Labour charges for wrought and put up including fixing in position for Other than teakwood Ledged, braced and planked doors including frame	1 Sqm	938.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
809	TBSC-T.I-44	Labour charges for wrought and put up including fixing in position for Other than teakwood Flush type door shutter including frame	1 Sqm	717.00
810	TBSC-T.I-45	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows glazed including outer frame and shutter frame	1 Sqm	922.00
811	TBSC-T.I-46	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows panelled including outer frame and shutter frame	1 Sqm	1395.00
812	TBSC-T.I-47	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows ledged, braced and planked including outer frame	1 Sqm	953.00
813	TBSC-T.I-48	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows framed and planked including outer frame and shutter frame	1 Sqm	1139.00
814	TBSC-T.I-49	Labour charges for wrought and put up including fixing in position for Other than teakwood Ventilators glazed, fixed with double frame with wire netting including frame	1 Sqm	760.00
815	TBSC-T.I-50	Labour charges for wrought and put up including fixing in position for Other than teakwood Swing ventilators glazed including outer frame and shutter frame	1 Sqm	962.00
816	TBSC-T.I-51	Labour charges for wrought and put up including fixing in position for Other than teakwood Weld mesh doors and windows including outer frame and shutter frame	1 Sqm	511.00
817	TBSC-T.I-52	Labour charges for wrought and put up including fixing in position for Other than teakwood G.I or .AC sheet door & windows including outer frame and shutter frame	1 Sqm	598.00
818	TBSC-T.I-53	Dressing faces of granite stone (double line dressing)	1 Sqm	174.00
819	TBSC-T.I-54	Dressing faces of other than granite stone(double line dressing)	1 Sqm	108.00
820	TBSC-T.I-55	Labour charges for removing and refixing with complete servicing of the MS Windows	1 Sqm	370.00
U	SECTION	DISMANTLING		
821	TBSC-U.I-01	Stone masonry in cement mortar	1 Cum	394.00
822	TBSC-U.I-02	Terracing work in roofs or floors	1 Sqm	16.00
823	TBSC-U.I-03	Flat stones in roof or floors including lifting	1Sqm	14.00
824	TBSC-U.I-04	Pan tiled or Mangalore tiled roof without roof timbers.	1Sqm	12.00
825	TBSC-U.I-05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	1Sqm	14.00
826	TBSC-U.I-06	Wrought and framed timber in roofs or floors	1 Cum	205.00
827	TBSC-U.I-07	Old lime mortar plaster	1Sqm	4.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
828	TBSC-U.I-08	Old cement mortar plaster	1Sqm	5.00
829	TBSC-U.I-09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	65.00
830	TBSC-U.I-10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	48.00
831	TBSC-U.I-11	Kadapa slabs or Shahabad stone slabs flooring on sand bed	1Sqm	7.00
832	TBSC-U.I-12	Through scraping of old plastered surface	1Sqm	4.00
833	TBSC-U.I-13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	1Sqm	1.00
834	TBSC-U.I-14	Clean removal of lime plaster from walls and raking out joints 20 mm deep or from terraced roof and raking out joints up to 50 mm deep	1Sqm	4.00
835	TBSC-U.I-15	Clean removal of cement plaster from walls and raking out joints 20 mm deep or from terraced roof and raking out joints from 50 mm to 100 mm deep	1Sqm	5.00
1	All the items to be used on the works are of first quality & ISI and as approved by the Engineer-In-charge of the work.			
2	Supply Rates for all the materials are based on market rates plus Sales Tax/ Material VAT.			
3	Works Contract VAT for General/ Composition Scheme on finished items may be allowed in the estimates as applicable.			
4	SSR Rates for Building items are purely for the guidance of the officers in preparation of estimates vide para.113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in para.45 of APPWD code.			

LEGEND

"TBSC" -A.I-01
"TBSC" -R.I-22
"TBSC" -S.III-14
TBS - Denotes Telangana Buildings SoR
A.I/ R.IV - Denotes the Section & Sub-section
01/22 - Denotes the serial number of the item

Sl	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labour charges	Centring Charges for 2016-17	Unit of Measurement
1	2	3	4	5	6

HIRE CHARGES FOR CENTERING & SCAFFOLDING

A	FOOTINGS	Rs.	277.00	Rs.	532.00	Rs.	809.00	per 1 cum
B	BED BLOCKS, BANDS	Rs.	61.00	Rs.	274.00	Rs.	335.00	per 1 cum
C	PEDESTALS	Rs.	315.00	Rs.	845.00	Rs.	1160.00	per 1 cum
D	PLINTH BEAMS	Rs.	1335.00	Rs.	1281.00	Rs.	2616.00	per 1 cum

**HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M
Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates,etc.,**

E	LINTELS	Rs.	1133.00	Rs.	1360.00	Rs.	2493.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	224.00	Rs.	209.00	Rs.	433.00	per 1 sqm
G	COLUMNS	Rs.	341.00	Rs.	1909.00	Rs.	2250.00	per 1 cum
H	BEAMS	Rs.	2002.00	Rs.	1601.00	Rs.	3603.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	227.00	Rs.	182.00	Rs.	409.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	233.00	Rs.	187.00	Rs.	420.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	244.00	Rs.	195.00	Rs.	439.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	824.00	Rs.	659.00	Rs.	1483.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	578.00	Rs.	462.00	Rs.	1040.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	2276.00	Rs.	1820.00	Rs.	4096.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	2308.00	Rs.	1846.00	Rs.	4154.00	per 1 cum
P	DOME SLABS	Rs.	3681.00	Rs.	2944.00	Rs.	6625.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	280.00	Rs.	224.00	Rs.	504.00	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	Rs.	1160.00	Rs.	1390.00	Rs.	2550.00	per 1 sqm

**HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M
Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc.,**

E	LINTELS	Rs.	760.00	Rs.	1062.00	Rs.	1822.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	150.00	Rs.	163.00	Rs.	313.00	per 1 sqm
G	COLUMNS	Rs.	229.00	Rs.	1491.00	Rs.	1720.00	per 1 cum
H	BEAMS	Rs.	1342.00	Rs.	1251.00	Rs.	2593.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	152.00	Rs.	142.00	Rs.	294.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	156.00	Rs.	146.00	Rs.	302.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	164.00	Rs.	152.00	Rs.	316.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	553.00	Rs.	515.00	Rs.	1068.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	387.00	Rs.	361.00	Rs.	748.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	1526.00	Rs.	1422.00	Rs.	2948.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	1547.00	Rs.	1442.00	Rs.	2989.00	per 1 cum
P	DOME SLABS	Rs.	2467.00	Rs.	2299.00	Rs.	4766.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	188.00	Rs.	175.00	Rs.	363.00	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	DELETED						

Note: - Centering & scaffolding charges for steel scaffolding with pipes, jack props, steel centring plates for unsupported heights of every 610 mm height above 3.66 M may be allowed at 16.666% more than the basic material hire charges and relevant labour charges of the applicable floor and item

Sl	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labour charges	Centring Charges for 2016-17	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for BRICK MASONRY/ STONE MASONRY - 1 sqm (Wall Area)					
A	1st - Floor	Rs. 9.93	Rs. 67.94	Rs. 77.87	per 1 sqm
B	2nd - Floor	Rs. 9.93	Rs. 96.94	Rs. 106.87	per 1 sqm
C	3rd - Floor	Rs. 9.93	Rs. 125.95	Rs. 135.87	per 1 sqm
D	4th - Floor	Rs. 9.93	Rs. 154.95	Rs. 164.88	per 1 sqm
E	5th - Floor	Rs. 9.93	Rs. 183.96	Rs. 193.88	per 1 sqm
F	6th - Floor	Rs. 9.93	Rs. 212.96	Rs. 222.89	per 1 sqm
G	7th - Floor	Rs. 9.93	Rs. 241.97	Rs. 251.89	per 1 sqm
H	8th - Floor	Rs. 9.93	Rs. 270.97	Rs. 280.90	per 1 sqm
I	9th - Floor	Rs. 9.93	Rs. 299.97	Rs. 309.90	per 1 sqm
J	10th - Floor	Rs. 9.93	Rs. 328.98	Rs. 338.91	per 1 sqm
K	11th - Floor	Rs. 9.93	Rs. 357.98	Rs. 367.91	per 1 sqm
L	12th - Floor	Rs. 9.93	Rs. 386.99	Rs. 396.92	per 1 sqm
M	13th - Floor	Rs. 9.93	Rs. 415.99	Rs. 425.92	per 1 sqm
N	14th - Floor	Rs. 9.93	Rs. 445.00	Rs. 454.93	per 1 sqm
O	15th - Floor	Rs. 9.93	Rs. 474.00	Rs. 483.93	per 1 sqm
HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for PLASTERING to WALLS - 1 sqm					
A	1st - Floor	Rs. 0.99	Rs. 6.79	Rs. 7.79	per 1 sqm
B	2nd - Floor	Rs. 0.99	Rs. 9.69	Rs. 10.69	per 1 sqm
C	3rd - Floor	Rs. 0.99	Rs. 12.59	Rs. 13.59	per 1 sqm
D	4th - Floor	Rs. 0.99	Rs. 15.50	Rs. 16.49	per 1 sqm
E	5th - Floor	Rs. 0.99	Rs. 18.40	Rs. 19.39	per 1 sqm
F	6th - Floor	Rs. 0.99	Rs. 21.30	Rs. 22.29	per 1 sqm
G	7th - Floor	Rs. 0.99	Rs. 24.20	Rs. 25.19	per 1 sqm
H	8th - Floor	Rs. 0.99	Rs. 27.10	Rs. 28.09	per 1 sqm
I	9th - Floor	Rs. 0.99	Rs. 30.00	Rs. 30.99	per 1 sqm
J	10th - Floor	Rs. 0.99	Rs. 32.90	Rs. 33.89	per 1 sqm
K	11th - Floor	Rs. 0.99	Rs. 35.80	Rs. 36.79	per 1 sqm
L	12th - Floor	Rs. 0.99	Rs. 38.70	Rs. 39.69	per 1 sqm
M	13th - Floor	Rs. 0.99	Rs. 41.60	Rs. 42.59	per 1 sqm
N	14th - Floor	Rs. 0.99	Rs. 44.50	Rs. 45.49	per 1 sqm
O	15th - Floor	Rs. 0.99	Rs. 47.40	Rs. 48.39	per 1 sqm
HIRE CHARGES FOR STAGE SCAFFOLDING - upto 3.66 M using Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for CEILING PLASTERING - 1 sqm					
A	1st - Floor	Rs. 2.37	Rs. 13.70	Rs. 16.07	per 1 sqm
B	2nd - Floor	Rs. 2.37	Rs. 19.37	Rs. 21.74	per 1 sqm
C	3rd - Floor	Rs. 2.37	Rs. 25.04	Rs. 27.41	per 1 sqm
D	4th - Floor	Rs. 2.37	Rs. 30.71	Rs. 33.07	per 1 sqm
E	5th - Floor	Rs. 2.37	Rs. 36.37	Rs. 38.74	per 1 sqm
F	6th - Floor	Rs. 2.37	Rs. 42.04	Rs. 44.41	per 1 sqm
G	7th - Floor	Rs. 2.37	Rs. 47.71	Rs. 50.08	per 1 sqm
H	8th - Floor	Rs. 2.37	Rs. 53.38	Rs. 55.74	per 1 sqm
I	9th - Floor	Rs. 2.37	Rs. 59.04	Rs. 61.41	per 1 sqm
J	10th - Floor	Rs. 2.37	Rs. 64.71	Rs. 67.08	per 1 sqm
K	11th - Floor	Rs. 2.37	Rs. 70.38	Rs. 72.75	per 1 sqm
L	12th - Floor	Rs. 2.37	Rs. 76.05	Rs. 78.41	per 1 sqm
M	13th - Floor	Rs. 2.37	Rs. 81.71	Rs. 84.08	per 1 sqm
N	14th - Floor	Rs. 2.37	Rs. 87.38	Rs. 89.75	per 1 sqm
O	15th - Floor	Rs. 2.37	Rs. 93.05	Rs. 95.42	per 1 sqm

CENTERING & SCAFFOLDING CHARGES- FLOOR WISE RATES for Steel scaffolding pipes, jack Props, Steel Centring Plates, etc., for unsupported height 3.66 M

FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5 M Span	ARCH BEAMS - above 1.5 M Span	DOME SLABS	HELICAL STAIRCASES	SHEAR WALLS, RCC WALLS, WATER TANK WALLS
Material Hire for any Floor	H	1133.00	224.00	341.00	2002.00	227.00	233.00	244.00	824.00	578.00	2276.00	2308.00	3681.00	280.00	1160.00
Labour Charges for 1st Floor	L	1360.00	209.00	1909.00	1601.00	182.00	187.00	195.00	659.00	462.00	1820.00	1846.00	2944.00	224.00	1390.00
Total Hire Charges (H+L)	T	2493.00	433.00	2250.00	3603.00	409.00	420.00	439.00	1483.00	1040.00	4096.00	4154.00	6625.00	504.00	2550.00

1st - Floor	L	1360.00	209.00	1909.00	1601.00	182.00	187.00	195.00	659.00	462.00	1820.00	1846.00	2944.00	224.00	1390.00
2nd - Floor	L	1496.00	230.00	2100.00	1761.00	200.00	206.00	215.00	725.00	508.00	2002.00	2031.00	3238.00	246.00	1529.00
3rd - Floor	L	1632.00	251.00	2291.00	1921.00	218.00	224.00	234.00	791.00	554.00	2184.00	2215.00	3533.00	269.00	1668.00
4th - Floor	L	1768.00	272.00	2482.00	2081.00	237.00	243.00	254.00	857.00	601.00	2366.00	2400.00	3827.00	291.00	1807.00
5th - Floor	L	1904.00	293.00	2673.00	2241.00	255.00	262.00	273.00	923.00	647.00	2548.00	2584.00	4122.00	314.00	1946.00
6th - Floor	L	2040.00	314.00	2864.00	2402.00	273.00	281.00	293.00	989.00	693.00	2730.00	2769.00	4416.00	336.00	2085.00
7th - Floor	L	2176.00	334.00	3054.00	2562.00	291.00	299.00	312.00	1054.00	739.00	2912.00	2954.00	4710.00	358.00	2224.00
8th - Floor	L	2312.00	355.00	3245.00	2722.00	309.00	318.00	332.00	1120.00	785.00	3094.00	3138.00	5005.00	381.00	2363.00
9th - Floor	L	2448.00	376.00	3436.00	2882.00	328.00	337.00	351.00	1186.00	832.00	3276.00	3323.00	5299.00	403.00	2502.00
10th - Floor	L	2584.00	397.00	3627.00	3042.00	346.00	355.00	371.00	1252.00	878.00	3458.00	3507.00	5594.00	426.00	2641.00
11th - Floor	L	2720.00	418.00	3818.00	3202.00	364.00	374.00	390.00	1318.00	924.00	3640.00	3692.00	5888.00	448.00	2780.00
12th - Floor	L	2856.00	439.00	4009.00	3362.00	382.00	393.00	410.00	1384.00	970.00	3822.00	3877.00	6182.00	470.00	2919.00
13th - Floor	L	2992.00	460.00	4200.00	3522.00	400.00	411.00	429.00	1450.00	1016.00	4004.00	4061.00	6477.00	493.00	3058.00
14th - Floor	L	3128.00	481.00	4391.00	3682.00	419.00	430.00	449.00	1516.00	1063.00	4186.00	4246.00	6771.00	515.00	3197.00
15th - Floor	L	3264.00	502.00	4582.00	3842.00	437.00	449.00	468.00	1582.00	1109.00	4368.00	4430.00	7066.00	538.00	3336.00

Note: - Centering & scaffolding charges for steel scaffolding with pipes, jack props, steel centring plates for unsupported heights of every 610 mm height or part thereof over and above 3.66 M may be allowed at 16.666% more than the basic material hire charges and relevant labour charges of the applicable floor and item

CENTERING & SCAFFOLDING CHARGES- FLOOR WISE RATES for Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates, Steel Centring Plates etc., for unsupported height 3.66 M

FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5 M Span	ARCH BEAMS - above 1.5 M Span	DOVE SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	760.00	150.00	229.00	1342.00	152.00	156.00	164.00	553.00	387.00	1526.00	1547.00	2467.00	188.00
Labour Charges for 1st Floor	L	1062.00	163.00	1491.00	1251.00	142.00	146.00	152.00	515.00	361.00	1422.00	1442.00	2299.00	175.00
Total Hire Charges (H+L)	T	1822.00	313.00	1720.00	2593.00	294.00	302.00	316.00	1068.00	748.00	2948.00	2989.00	4766.00	363.00
1st - Floor	L	1062.00	163.00	1491.00	1251.00	142.00	146.00	152.00	515.00	361.00	1422.00	1442.00	2299.00	175.00
2nd - Floor	L	1168.00	179.00	1640.00	1376.00	156.00	161.00	167.00	567.00	397.00	1564.00	1586.00	2529.00	193.00
3rd - Floor	L	1274.00	196.00	1789.00	1501.00	170.00	175.00	182.00	618.00	433.00	1706.00	1730.00	2759.00	210.00
4th - Floor	L	1381.00	212.00	1938.00	1626.00	185.00	190.00	198.00	670.00	469.00	1849.00	1875.00	2989.00	228.00
5th - Floor	L	1487.00	228.00	2087.00	1751.00	199.00	204.00	213.00	721.00	505.00	1991.00	2019.00	3219.00	245.00
6th - Floor	L	1593.00	245.00	2237.00	1877.00	213.00	219.00	228.00	773.00	542.00	2133.00	2163.00	3449.00	263.00
7th - Floor	L	1699.00	261.00	2386.00	2002.00	227.00	234.00	243.00	824.00	578.00	2275.00	2307.00	3678.00	280.00
8th - Floor	L	1805.00	277.00	2535.00	2127.00	241.00	248.00	258.00	876.00	614.00	2417.00	2451.00	3908.00	298.00
9th - Floor	L	1912.00	293.00	2684.00	2252.00	256.00	263.00	274.00	927.00	650.00	2560.00	2596.00	4138.00	315.00
10th - Floor	L	2018.00	310.00	2833.00	2377.00	270.00	277.00	289.00	979.00	686.00	2702.00	2740.00	4368.00	333.00
11th - Floor	L	2124.00	326.00	2982.00	2502.00	284.00	292.00	304.00	1030.00	722.00	2844.00	2884.00	4598.00	350.00
12th - Floor	L	2230.00	342.00	3131.00	2627.00	298.00	307.00	319.00	1082.00	758.00	2986.00	3028.00	4828.00	368.00
13th - Floor	L	2336.00	359.00	3280.00	2752.00	312.00	321.00	334.00	1133.00	794.00	3128.00	3172.00	5058.00	385.00
14th - Floor	L	2443.00	375.00	3429.00	2877.00	327.00	336.00	350.00	1185.00	830.00	3271.00	3317.00	5288.00	403.00
15th - Floor	L	2549.00	391.00	3578.00	3002.00	341.00	350.00	365.00	1236.00	866.00	3413.00	3461.00	5518.00	420.00

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
A	SECTION	BRICKS & BUILDING BLOCKS
III	SUB-SECTION	Aerocon, Siporex, Nucon, NCL
C	SECTION	WALL & FLOOR TILES
		(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)
I	SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES - Somany, H & R Johnson, Naveen Ceramics, Kajaria, Nitco, Sphinx, Orient Bell, AGL, Hindware
II	SUB-SECTION	PORCELAIN VITRIFIED FLOOR TILES - H & R Johnson, H & R Johnson Marbonite, H & R Johnson Endura, H & R Johnson GPS, Naveen Ceramics, Kajaria, Nitco, Orient Bell, Hindware, AGL
III	SUB-SECTION	CERAMIC WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, AGL, Hindware
IV	SUB-SECTION	PORCELAIN WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware
V	SUB-SECTION	GLASS MOSAIC TILES - Bisazza,
VI	SUB-SECTION	WALL CLADDING TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware
VII	SUB-SECTION	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx
VIII	SUB-SECTION	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx
IX	SUB-SECTION	PRE-CAST CONCRETE BLOCKS FOR PAVING - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx
X	SUB-SECTION	VINYL FLOORING - Marblex, Amstrong,
		TILE ADHESIVE – MYK LATICRETE, JK Super Grip
F	SECTION	GLASS MATERIALS - Modifloat, Asahi, Saintgobain, Binani, HNG,
G	SECTION	PAINTS & POLISHES - Asian, Berger, Nerolac, British Paints, JK Cements, Saicoat, Indocem, ESSAR, Sheenlac, Suryacem, Neon, Wallz, Walrus – SYNTHETIC PLASTER - NCL Alltek, MYK LATICRETE, Multichem, Essar, J.K. White Cement, J.K.Wall Putty (White cement based), JK Primaxx(White Cement Based Primer), Smoothtek
H	SECTION	PARTICLE BOARDS - NCL Bison, Ramco-Hilux, Ramco-Hicem, Everest-board, Visakha-board, Rajshri, Innsula, Aerocon, Aerolite, Novopan, Bhutan-board
J	SECTION	PLYWOODS, LAMINATES & VENEERS - Kitply, Century Ply, National Ply, Bhutan Ply, Samrat, Gurjan ply, Aamoda, Mayur, Amul Boards
K	SECTION	CEILINGS, WALL PARTITIONS & WALL LININGS - Ramco-Hilux, Everest-board, Visakha-board, Rajshri, Innsula, Gypsum India, Saintgobain, Armstrong, Daikin, NCL-Seccolor, NCL Bison,
L	SECTION	DOORS, SHUTTERS & FRAMES - NCL-Seccolor, Anand, Raavila, Kutty, Standard, Shubhdwar, ITP, Rajshri, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG, Masonite, Everest, Vishaka, Ambience, Aamoda
M	SECTION	WINDOWS - NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, NCL-Wintech, Fenesta, LG, Ahlada
N	SECTION	STRUCTURAL GLAZING & CURTAIN WALLING - NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG
P	SECTION	FIXTURES FOR DOORS & WINDOWS - Jyoti, Classic, Hardwyn
Q	SECTION	CONSTRUCTION CHEMICALS & ADMIXTURES
		MAKE, APPLICATION METHOD, AREA AND DOSAGE
I	SUB-SECTION	PLASTICIZERS
	TBSC-Q-I-01	* Consplax of Armstrong Chemicals Pvt Ltd, Bengaluru * Conplast of Fosroc Chemicals India Pvt Ltd, Bengaluru (200ml /50Kgs Cement)* Zoriplax of Protect More Construction chemicals, Hyderabad. (Dosage 20ml per 50 Kgs cement). for M 20 + grade concrete works in slabs /canal lining works/ roads works

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	TBSC-Q.I-02	* Roofplast HS 100 of Armstrong Chemicals Pvt Ltd, Bengaluru * Structuro100 of Fosroc Chemicals India Pvt Ltd, Bengaluru * Zoriplast HS of Protect More Construction Chemicals,
	TBSC-Q.I-03	*Roofplast SP 35of Armstrong Chemicals Pvt Ltd. Bengaluru *Conplast SP 337 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriplast SP 350 of Protect More Construction chemicals. * Rheomac 707 of BASF *Conflow (Dosage: 200ml to 500ml per bag of 50 Kgs Cement) . for M30+ grade concrete works like road projects / Canal linings / Dams / Reservoirs / Building's concrete works * Power35 of ESSAR (Dosage : 300 ml to 500 ml Per Bag of 50 Kgs Cement)
	TBSC-Q.I-04	*Roofplast SP 45 of Armstrong Chemicals Pvt Ltd, Bengaluru*Consplast SP 430 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriplast SP 450 of Protect More Construction Chemicals (Dosage: 200ml to 500ml per bag of 50 Kgs Cement) for high early strength and high range water reducing admixture for M40+ grade concrete works like road projects / Canal linings / Dams / Reservoirs / Building's concrete works *Power45 of ESSAR (Dosage : 300 ml to 500 ml Per Bag of 50 Kgs Cement)
	TBSC-Q.I-05	*Roofplast SR 45 of Armstrong Chemicals Pvt Ltd, Bengaluru*Conplast RP264 of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoriplast SRT 5 of Protect More Construction Chemicals (Dosage : 300ml to 400ml per bag of 50 Kgs Cement).For delaying of initial setting time and M 40+ Grade concrete works * Power SR 45 of ESSAR (Dosage: 200 ml to 500 ml per bag of 50 Kgs Cement)
	TBSC-Q.I-06	*Roofplast SCA of Armstrong Chemicals Pvt Ltd, Bengaluru*Conplast NC of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoriset of Protect More Construction Chemicals (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required).For shotcrete / Guniting / Emergency concrete works * Power-200 of ESSAR or Equivalent (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required)
II	SUB-SECTION	WATER PROOFING COMPOUNDS
	TBSC-Q.II-01	*Rainproof No.1 of Armstrong Chemicals Pvt Ltd Bengaluru *Conplast 421 of Fosroc Chemicals India Pvt Ltd Bengaluru (125ml Per 50 Kgs Cement) *Zoriproof No.1 of Protect More construction Chemicals. : (Dosage : 100ml Per Bag of 50 Kgs Cement)
	TBSC-Q.II-02	*Roofbond RFX of Armstrong Chemicals Pvt Ltd, Bengaluru. *Brushbond RFX of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoricoat RX of Protect More Construction Chemicals.*Masreseat 550 Grey of Base. (12-14 m2 in two coats to achieve 1mm thickness). Terrace, Water Tanks, Walls Waterproof Coatings : of Two Part System: *Essar - Power RFX
	TBSC-Q.II-03	* Roofcoat of Armstrong Chemicals Pvt Ltd, Bengaluru * Brushbond of Fosroc Chemicals India Pvt Ltd, Bengaluru * Zoricoat of Protect More Construction Chemicals Terrace, Water Tanks, Walls, Reservoirs Waterproofing Coatings : Surface treatments* Asian Paints
	TBSC-Q.II-04	*Rainseal of Armstrong Chemicals Pvt Ltd, Bengaluru *Proofex SM of Fosroc Chemicals India Pvt Ltd, Bengaluru, *Zoricoat XL of Protect More Construction Chemicals. , wherever highly flexible, crack bridging ,waterproofing required(Coverage : 50 to 60 SFT Per/Ltr/Coat) (for brush / spray application add 20% water per Ltr)Terrace, Walls Highly Flexible Waterproof Liquid Membrane pure Acrylic Coatings :
	TBSC-Q.II-05	*Rapidstrong QS of Armstrong Chemicals Pvt Ltd Bengaluru *Patchro C of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zorirapidr of Protect More Construction Chemicals * Conflow (Dosage : 1 to 3 Ltrs per bag of 50 Kgs Cement depending on the setting time required). * Concure Plus (200 -250 ml per Bag of cement)For emergency works/Anti wash and under water concreting:

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	TBSC-Q.II-06	*Rainseal Flexi Coat B30 of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru. *Zoricoat BL of Protect More Construction Chemicals. : wherever highly flexible, crack bridging, Sewage treatment plants, pipe lines, Reservoirs and waterproofing required.
III	SUB-SECTION	BONDING AGENTS
	TBSC-Q.III-01	*Roofbond PB of Armstrong Chemicals Pvt Ltd Bengaluru *Nitobond AR of Fosroc Chemical India Pvt Ltd Bengaluru *Zoribond PB of Protect More Construction Chemicals. (Mix: 1:1 ratio of cement)50 SFT / Ltr /coat depending on the substrate) On terrace old concrete to new mortar / screed :
	TBSC-Q.III-02	*Roofbond SBR of Armstrong Chemicals Pvt Ltd Bengaluru *Nitobond SBR of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoribond SBR of Protect More Construction Chemicals. (50 SFT / Ltr /coat depending on the substrate) For ceiling / concrete repairs and bonding : mortar/concrete
	TBSC-Q.III-03	*Roofbond EP of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitobond EP of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoribond EP of Protect More Construction Chemicals. (Coverage : 20 – 25 SFT / Kg /Coat) For Structural concrete repairs / bonding : Old concrete to new concrete epoxy bonding :
IV	SUB-SECTION	ANTI-CORROSIVE AGENTS
	TBSC-Q.IV-01	*Roofguard AC of Armstrong Chemicals Pvt Ltd Bengaluru *Fosroc Chemicals India Pvt Ltd Bengaluru*Zoriguard AC of Protect More Construction Chemicals.(40 SFT Per Ltr / Coat) * Concare-XL (200 ml to 250 ml per Bag of Cement To protect the exposed reinforcement / steel structures against corrosion :
	TBSC-Q.IV-02	*Roofguard RC of Armstrong Chemicals Pvt Ltd Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriguard RC of Protect More Construction Chemicals Hyderabad. (50 SFT Per Ltr / Coat) During repairs to protect, to convert the rust of reinforcement / steel :
	TBSC-Q.IV-03	*Roofguard ZP of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoprime Zinc Rich of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriguard ZP of Protect More Construction Chemicals, Hyderabad. (Coverage : 4 Sq.Mtr. /Ltr / Coat)
	TBSC-Q.IV-04	Supply of anti-corrosion admixture inhibitor liquid as per Central Electro Chemical Research Institute developed specification and licensee of Concure or Concure Plus or Equivalent (300 ml to 500 ml per Bag of 50 Kgs Cement)
V	SUB-SECTION	GROUTS
	TBSC-Q.V-01	*Rapidstrong Grout AG of Armstrong Chemicals Pvt Ltd, Bengaluru*Lockfix of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zorifix of Protect More Construction Chemicals (Yield 0.5 Ltrs / 1 Kg Pack) Anchoring / fix the steel bars into the rocks, concrete for foundations, extension of concrete : *Essar Power Anchor grout . (Yield 0.5 Ltrs / 1 Kg Pack)
	TBSC-Q.V-02	*Rapidstrong Grout GP2 of Armstrong Chemicals Pvt Ltd, Bengaluru*Conbextra GP2 of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zorigrout GP 2 of Protect More Construction Chemicals For machinery / thin sections of concrete joints Filling : *Essar Power GP2 Grout (Yield 13.5 Ltrs Per 25 Kgs Bag).
	TBSC-Q.V-03	*Rapidstrong Grout EP of Armstrong Chemicals Pvt Ltd , Bengaluru*Conbextra EP10 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zorigrout EP of Protect More Construction Chemicals. (Two parts system).(Density 1.07 Kg Per Ltr)For Structural strengthening, filling of honey comb / voids in the concrete : *Essar Power EPL Grout
	TBSC-Q.V-04	*Rapidstrong Grout EP3 of Armstrong Chemicals Pvt Ltd, Bengaluru *Conbextra EP300 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zorigrout EP3 of Protect More Construction Chemicals. Concrete strengthening and filling concrete repairs *Essar Power EP Grout
VI	SUB-SECTION	MISCELLANEOUS CHEMICALS

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	TBSC-Q.VI-01	*Roofcare MRA of Armstrong Chemicals Pvt Ltd, Bengaluru *Reebol of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zorislip of Protect More Construction Chemicals (Coverage: 1 Ltr will cover approx 20 to 30m2 on method and material of the form)
	TBSC-Q.VI-02	*Rapidstrong FM of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd. Bengaluru. *Zorifloor NH of Protect More Construction Chemicals. :(Coverage : May be applied at rate 3.5 Kgs /m2 over green concrete for normal traffic & 6-12 Kg / M2 for heavy traffic. Higher application rates yield better abrasion resistance)* Essar PowerHard M-100
	TBSC-Q.VI-03	* Rapidstrong NH of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoflor Hardtop/Hard Standard of Fosroc Chemicals India Pvt Ltd, Bengaluru. * Zorifloor DH of Protect More Construction Chemicals* Mastertof 100 Grey of BASF :(Coverage : May be applied at rate 3.5 Kgs /m2 over green concrete for normal traffic & 6-12 Kg / M2 for heavy traffic. Higher application rates yield better abrasion resistance) *Essar PowerHard NM-100. (Coverage: May be applied at rate 3.5 Kgs /m2 over green concrete for normal traffic & 6-12 Kg / M2 for heavy traffic)
	TBSC-Q.VI-04	*Roofcrete MC of Armstrong Chemicals Pvt Ltd, Bengaluru / *Rendroc RG of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoricrete MC of Protect More Construction Chemicals.
	TBSC-Q.VI-05	*Roofcrete AR of Armstrong Chemicals Pvt Ltd, Bengaluru *Cemtop 400 SD of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoricrete CMG of Protect More Construction Chemicals. To achieve High Strength Concreting / Structural rehabilitation / concrete repairs :
	TBSC-Q.VI-06	*Roofcrete EM of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoricrete ERM of Protect More Construction Chemicals.For wherever repeated failures takes place, resistance to chemicals. Repairing of Detoriated concrete with High Strength Flexural / Compressive Strength with High Standard Bonding:
	TBSC-Q.VI-07	*Roofex of Armstrong Chemicals Pvt Ltd, Bengaluru *Brushbond Tap of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoripex of Protect More Construction Chemicals. For Negative Water Pressure Treatments like Cellar / Ceiling areas etc., :
	TBSC-Q.VI-08	*Roofseal PU of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoseal PU 280 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriseal PU of Protect More Construction Chemicals. For Expansion Joints / Terrace Cracks / Wall & Beam junction cracks ; Runway Joints etc., :
	TBSC-Q.VI-09	* Roofseal PS of Armstrong Chemicals Pvt Ltd, Bengaluru * Thioflex 600 of Fosroc Chemicals India Pvt Ltd, Bengaluru * Zoriseal PS of Protect More Construction Chemicals. For Expansion Joints / Terrace Cracks :
	TBSC-Q.VI-10	*Wonderseal XL of Armstrong Chemicals Pvt Ltd, Bengaluru *Decofil of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriseal XL of Protect More Construction Chemicals. External / Internal Wall Cracks Sealing
	TBSC-Q.VI-11	*Wonderseal Plug of Armstrong Chemicals Pvt Ltd, Bengaluru *Renderroc Plug of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriseal Plug of Protect More Construction Chemicals.
	TBSC-Q.VI-12	*Roofcoat PU400 of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitocote UR 512 of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoricoat PU of Protect More Construction Chemicals. for floorings / Walls.
	TBSC-Q.VI-13	*Roofguard CTE of Armstrong Chemicals Pvt Ltd, Bengaluru*Nitocote ET 550 of Fosroc Chemicals India Pvt Ltd, Bengaluru/ *Zoriguard CTE of Protect More Construction Chemical. : tar based epoxy coating for sewage treatment plants, pipe lines protective coating for steel reinforcement.

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	TBSC-Q.VI-14	*Roofexure WB of Armstrong Chemicals Pvt Ltd, Bengaluru *Concure WB of Fosroc Chemicals Pvt Ltd, Bengaluru *Zoricure WB of Protect More Construction Chemicals. (Coverage : 4 Sq. Mtrs / Ltr / Coat)
	TBSC-Q.VI-15	*Rainseal BS of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru. *Zoriseal BS Grade 'A' of Protect More Construction Chemicals. for construction joints of roads / bridges.
	TBSC-Q.VI-16	*Rainseal BT Primer of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoproof 100 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriprime BT of Protect More Construction Chemicals.
	TBSC-Q.VI-17	*Roofplast AEA of Armstrong Chemicals Pvt Ltd Bengaluru*Conplast AEA of Fosroc Chemicals India Pvt Ltd, Bengaluru (Dosage : 200ml Per 50 Kgs Cement)*Zoriplast AEA of Protect More Construction Chemicals. (Dosage : 15ml to 20ml per bag of 50 Kgs Cement) For entrainment of air, recommended for canal lining works, mass concreting etc : *Essar Power AEA Plasticizer (Dosage : 15ml per Bag of 50 Kgs Cement)
VII	SUB-SECTION	REPAIRING & TREATMENT WORKS
	TBSC-Q.VII-1	RAINSEAL FELT of Armstrong / Fosroc / ZORIFELT BT of PMCC
	TBSC-Q.VII-2	RAINSEAL HDP 1500 of Armstrong / Fosroc / ZORISHIELD 1500 of PMCC / Roof shield
	TBSC-Q.VII-3	RAINSEAL BT PRIMER of Armstorng / Fosroc / /STP/PMCC/ Asian
	TBSC-Q.VII-4	ROOFBOND RFX of Armstrong /BRUSHBOND RFX of Fosroc / ZORIBOND RFX of PMCC.
	TBSC-Q.VII-5	RAINSEAL FLEXICOAT B 300 of Armstrong / NITOPROOF 120 of Fosroc /ZORICOAT BL of PMCC (Coverage : 1Ltr /100 SFT/ Each Coat) diluting with water at 1:1 ratio as a primer coat. RAINSEAL FLEXICOAT B 300 of Armstrong / NITOPROOF 120 of Fosroc /ZORICOAT BL of PMCC top coat diluting with 20% of water (Coverage : 1Ltr /5 Sqm /Each Coat)
	TBSC-Q.VII-6	RAINSEAL of Armstrong /PROOFEX SM of Fosroc / ZORICOAT XL of SMCC(1 Ltr/10 Sq.Mtr./Each Coat) diluting with water at 1:1 ratio as a primer coat , Next coat with with -RAINSEAL of Armstrong / PROOFEX SM of Fosroc / ZORICOAT XL of PMCC mixing with 20 % of Water. (1 Ltr/5 Sq.Mtr/Each Coat) final coat with--RAINSEAL of Armstrong /PROOFEX SM of Fosroc / ZORICOAT XL of PMCC (1 Ltr/2 Sq.Mtr/Each Coat)diluting with 20% of water.
	TBSC-Q.VII-7	Polymer bonding agent: - ROOFBOND SBR of Armstrong / NITOBOND SBR of Fosroc / ZORIBOND SBR of PMCC (Coverage : 1 Ltr /5 Sqm / Each Coat), next with - Acrylic Polymer modified reinstatement concrete /mortar ROOFCRETE AR of Armstrong / CEMTOP 400 SD of Fosroc/ZORICRETE CMG of PMCC to finish and polysulphide sealant with ROOFSEAL PS of Armstrong / THIOFLEX 600 of Fosroc / ZORISEAL PS of PMCC (Coveragae : 1 Kg Per 1.8 RMT) finally with - ROOFCOAT of Armstrong / BRUSHBOND of Fosroc /ZORICOAT of PMCC mixing with Cement at 1: 2 ratio. (Coverage : 1 Ltr / 2.5 Sqm /Coat)
	TBSC-Q.VIII-01-11	Silseal, Silflex, Armour, Shalitex
R	SECTION	MISCELLANEOUS ITEMS
		(a) Sintex for PVC tanks(b) Centurywells for Galvalume sheets (c) Elixir for PEB structures (d) Alluminium Sections - Hindalco, Nalco, Jindal (e) ACP Sheets - Alucopanel, alucobonel, Reynobond, Lennox Durabuid, Alstrong legame, Alpolic, Alcomat, Alshine, Viva

INDEX FOR PLUMBING ITEMS OF TELANGANA BUILDINGS SoR: 2015-16

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
A	SECTION		S.W.G. PIPES & FITTINGS		
			(Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
I	SUB-SECTION	TBSP-A.I-01-09	SUPPLY & LAYING OF SWG PIPES		
II	SUB-SECTION	TBSP-A.II-01-59	S.W.G. FITTINGS		
III	SUB-SECTION	TBSP-A.III-01-05	LABOUR CHARGES FOR SWG WORKS		
B	SECTION		MANHOLES & INSPECTION CHAMBERS		
I	SUB-SECTION	TBSP-B.I-01-04	MANHOLES		
II	SUB-SECTION	TBSP-B.II-01-13	INSPECTION CHAMBERS		
III	SUB-SECTION	TBSP-B.III-01-01	LABOUR CHARGES FOR IC WORKS		
C	SECTION		CENTRIFUGAL CI PIPES & FITTINGS - IS : 1729		
I	SUB-SECTION	TBSP-C.I-01-06	SUPPLY & LAYING OF CAST IRON PIPES		
II	SUB-SECTION	TBSP-C.II-01-33	SUPPLYING & LAYING OF C.I. FITTINGS		
III	SUB-SECTION	TBSP-C.III-01-08	LABOUR CHARGES FOR CI PIPE WORKS		
D	SECTION		CENTRIFUGAL CI PIPES & FITTINGS - IS : 3989		
I	SUB-SECTION	TBSP-D.I-01-13	SUPPLY OF CENTRIFUGAL CI PIPES		
II	SUB-SECTION	TBSP-D.II-01-95	SUPPLY OF C.I. SPUN FITTINGS		
E	SECTION		VITREOUS CHINAWARE - SANITARY APPLIANCES		
I	SUB-SECTION	TBSP-E.I-01-07	INDIAN WATER CLOSETS		
II	SUB-SECTION	TBSP-E.II-01-06	FLOOR MOUNTED EWC		
III	SUB-SECTION	TBSP-E.III-01-03	WALL MOUNTED EWC		
IV	SUB-SECTION	TBSP-E.IV-01-03	CISTERNS FOR WATER CLOSETS		
V	SUB-SECTION	TBSP-E.V-01-02	PLASTIC SEATS FOR WATER CLOSETS		
VI	SUB-SECTION	TBSP-E.VI-01-16	WASH HAND BASINS		
VII	SUB-SECTION	TBSP-E.VII-01-04	URINALS		
VIII	SUB-SECTION	TBSP-E.VIII-01-12	LABOUR CHARGES FOR SANITARY WARE		
F	SECTION		CP FITTINGS - TAPS, FAUCETS & ACCESSORIES		
I	SUB-SECTION	TBSP-F.I-01-08	TAPS & FAUCETS - BIB TAPS		
II	SUB-SECTION	TBSP-F.II-01-09	TAPS & FAUCETS - PILLAR TAPS		
III	SUB-SECTION	TBSP-F.III-01-07	TAPS & FAUCETS - OTHER TAPS & SPOUTS		
IV	SUB-SECTION	TBSP-F.IV-01-07	STOP & ANGLE VALVES		
V	SUB-SECTION	TBSP-F.V-01-09	COMBINATION FAUCETS		
VI	SUB-SECTION	TBSP-F.VI-01-08	SHOWER ROSES & FITTINGS		
VII	SUB-SECTION	TBSP-F.VII-01-41	MISCELLANEOUS CP FITTINGS		
VIII	SUB-SECTION	TBSP-F.VIII-01-05	LABOUR CHARGES		
G	SECTION		G.I. PIPES & FITTINGS		
I	SUB-SECTION	TBSP-G.I-01-13	G.I. PIPES		

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
II	SUB-SECTION	TBSP-G.II-01-24	G.I. FITTINGS		
III	SUB-SECTION	TBSP-G.III-01-27	BRONZE (COPPER ALLOY) VALVES		
IV	SUB-SECTION	TBSP-G.IV-01-03	LABOUR CHARGES FOR G.I PLUMBING		
H	SECTION		PVC PIPES & FITTINGS		
I	SUB-SECTION	TBSP-H.I-01-44	PVC PIPES		
II	SUB-SECTION	TBSP-H.II-01-96	PVC FITTINGS		
III	SUB-SECTION	TBSP-H.III-01-10	PVC PLUMBING ACCESSORIES		
IV	SUB-SECTION	TBSP-H.IV-01-03	LABOUR CHARGES FOR PVC PLUMBING		
J	SECTION		MISCELLANEOUS ITEMS		
I	SUB-SECTION	TBSP-J.I-01-40	MISCELLANEOUS PLUMBING WORK ITEMS		
II	SUB-SECTION	TBSP-J.II-01-17	POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES		
III	SUB-SECTION	TBSP-J.III-01-195	OTHER VARIETIES OF PIPES		

PLUMBING ITEMS

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
		Note: All the prices of the materials are landing costs, including material VAT, loading, cost of conveyance, unloading & stacking at site.		
A	SECTION	S.W.G. PIPES & FITTINGS		
I	SUB-SECTION	SUPPLY & LAYING OF S.W.G. PIPES		
1	TBSP-A.I-01	Supplying, laying, jointing and testing 101.6 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. Including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 1524 mm(5'0") depth and refilling with watering and tamping.	1 RM	497.00
2	TBSP-A.I-02	Supplying, laying, jointing and testing 101.6 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1:5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 914.4 mm (3'0") depth and refilling with watering and tamping.	1 RM	427.00
3	TBSP-A.I-03	Supplying, laying, jointing and testing 152.4 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 1524 mm(5'0") depth and refilling with watering and tamping.	1 RM	715.00
4	TBSP-A.I-04	Supplying, laying, jointing and testing 152.4 mm SWG SP-1 pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in CM 1.5:1 prop. including excavation of trenches and socket pits in any soil (except rock requiring blasting) up to 914.4 mm (3'0")) depth and refilling with watering and tamping.	1 RM	636.00
5	TBSP-A.I-05	Providing 152.4 mm CC bed 1:2:4 Prop: using 19.05 mm gauge graded granite metal chips and cradling 101.6 mm SWG pipe line all round to have 75 mm nominal size thick cover over the sockets.	1 RM	132.00
6	TBSP-A.I-06	Providing 152.4 mm CC bed 1:2:4 Prop: using 19.05 mm gauge graded granite metal chips and cradling 152.4 mm SWG pipe line all round to have 75 mm nominal size thick cover over the sockets.	1 RM	228.00
7	TBSP-A.I-07	Supplying & Laying 101.6 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	91.00
8	TBSP-A.I-08	Supplying & Laying 152.4 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	171.00
9	TBSP-A.I-09	Supplying & fixing 150 mm x 100 mm SWG gully traps conforming to ISI 651 & 4127 with C.I Grating & Cost. Brick masonry in CM 1:6 prop. Intermediate chamber and fitted with 304.8 mm x 288.6mm (12"x9") C.I Frame and hinged cover	Each	596.00
II	SUB-SECTION	S.W.G. PIPES & FITTINGS		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
10	TBSP-A.II-01	Supply of SWG SP-1 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	181.00
11	TBSP-A.II-02	Supply of SWG SP-1 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	314.00
12	TBSP-A.II-03	Supply of SWG SP-1 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	485.00
13	TBSP-A.II-04	Supply of SWG SP-1 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	888.00
14	TBSP-A.II-05	Supply of SWG SP-1 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	1,280.00
15	TBSP-A.II-06	Supply of SWG SP-1 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	1,742.00
16	TBSP-A.II-07	Supply of SWG SP-2 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	223.00
17	TBSP-A.II-08	Supply of SWG SP-2 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	332.00
18	TBSP-A.II-09	Supply of SWG SP-2 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	599.00
19	TBSP-A.II-10	Supply of SWG SP-2 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	941.00
20	TBSP-A.II-11	Supply of SWG SP-2 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	1,446.00
21	TBSP-A.II-12	Supply of SWG SP-2 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	1,875.00
22	TBSP-A.II-13	Supply of SWG SP-2 pipe conforming to ISI 651 - 16" dia (400 mm)	1 RM	2,159.00
23	TBSP-A.II-14	Supply of SWG SP-2 pipe conforming to ISI 651 - 18" dia (450 mm)	1 RM	2,756.00
24	TBSP-A.II-15	Supply of SWG SP-3 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	285.00
25	TBSP-A.II-16	Supply of SWG SP-3 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	415.00
26	TBSP-A.II-17	Supply of SWG SP-3 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	734.00
27	TBSP-A.II-18	Supply of SWG SP-3 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	1,115.00
28	TBSP-A.II-19	Supply of SWG SP-3 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	1,558.00
29	TBSP-A.II-20	Supply of SWG SP-3 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	1,979.00
30	TBSP-A.II-21	Supply of SWG SP-2 pipe conforming to ISI 651 - 16" dia (400 mm)	1 RM	2,278.00
31	TBSP-A.II-22	Supply of SWG SP-3 pipe conforming to ISI 651 - 18" dia (450 mm)	1 RM	3,099.00
32	TBSP-A.II-23	Supply of SWG Bends conforming to IS standards -100 mm dia	Each	91.00
33	TBSP-A.II-24	Supply of SWG Bends conforming to IS standards -150 mm dia	Each	168.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
34	TBSP-A.II-25	Supply of SWG Bends conforming to IS standards -200 mm dia	Each	317.00
35	TBSP-A.II-26	Supply of SWG Bends conforming to IS standards -250 mm dia	Each	643.00
36	TBSP-A.II-27	Supply of SWG Bends conforming to IS standards -300 mm dia	Each	816.00
37	TBSP-A.II-28	Supply of SWG Bends conforming to IS standards -350 mm dia	Each	1,020.00
38	TBSP-A.II-29	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 100 x 100	Each	175.00
39	TBSP-A.II-30	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 100	Each	258.00
40	TBSP-A.II-31	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 150	Each	281.00
41	TBSP-A.II-32	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 100	Each	400.00
42	TBSP-A.II-33	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 150	Each	468.00
43	TBSP-A.II-34	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 200	Each	537.00
44	TBSP-A.II-35	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 100	Each	631.00
45	TBSP-A.II-36	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 150	Each	833.00
46	TBSP-A.II-37	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 200	Each	1,031.00
47	TBSP-A.II-38	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 250	Each	1,234.00
48	TBSP-A.II-39	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 100	Each	900.00
49	TBSP-A.II-40	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 150	Each	1,153.00
50	TBSP-A.II-41	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 200	Each	1,405.00
51	TBSP-A.II-42	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 250	Each	1,659.00
52	TBSP-A.II-43	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 300	Each	1,911.00
53	TBSP-A.II-44	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 100	Each	1,123.00
54	TBSP-A.II-45	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 150	Each	1,440.00
55	TBSP-A.II-46	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 200	Each	1,756.00
56	TBSP-A.II-47	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 250	Each	2,070.00
57	TBSP-A.II-48	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 300	Each	2,387.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
58	TBSP-A.II-49	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 350	Each	2,701.00
59	TBSP-A.II-50	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	33.00
60	TBSP-A.II-51	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	63.00
61	TBSP-A.II-52	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	120.00
62	TBSP-A.II-53	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	208.00
63	TBSP-A.II-54	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	329.00
64	TBSP-A.II-55	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	413.00
65	TBSP-A.II-56	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	254.00
66	TBSP-A.II-57	Supply of SWG Saddles conforming to IS standards 150 x 100 mm	Each	184.00
67	TBSP-A.II-58	Supply of SWG Saddles conforming to IS standards 200 x 100 mm	Each	317.00
68	TBSP-A.II-59	Supply of SWG Saddles conforming to IS standards 250 x 100 mm	Each	513.00
III	SUB-SECTION	LABOUR CHARGES FOR SWG WORKS		
69	TBSP-A.III-01	Labour charges only for laying, jointing and testing SWG pipes of any dia with airtight cement joints including excavation of trenches and socket pits in any soil up to 914.4 mm (3'0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	236.00
70	TBSP-A.III-02	Labour charges only for laying, jointing and testing SWG pipes of any dia with airtight cement joints including excavation of trenches and socket pits in any soil up to 1524 mm (5'-0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	293.00
71	TBSP-A.III-03	Labour charges only for laying 101.6 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	37.00
72	TBSP-A.III-04	Labour charges only for laying 152.4 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	51.00
73	TBSP-A.III-05	Labour charges only for fixing and laying the SWG Junctions/ Plugs/ Bends of any dia with airtight cement joints as per standard practice	Each	31.00
B	SECTION	MANHOLES & INSPECTION CHAMBERS - AS PER - IS 4111 : Part 1 : 1986		-
I	SUB-SECTION	MANHOLES		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
74	TBSP-B.I-01	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	6,846.00
75	TBSP-B.I-02	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	10,795.00
76	TBSP-B.I-03	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	6,748.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
77	TBSP-B.I-04	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	10,599.00
II	SUB-SECTION	INSPECTION CHAMBERS & COVERS		
78	TBSP-B.II-01	Constructing 914.4 mm x 457.2 mm (3'0"x1'6") brick in CM 1:6 prop. Masonry Inspection chamber up to 914.4 mm (3'0") and fitted with light weight 914.4 mm x 457.2 mm (3'0"x1'6") C.I frame and cover of 40 Kg.	Each	6,091.00
79	TBSP-B.II-02	Constructing 457.2 mm x 457.2 mm (1'6"x1'6") brick in CM 1:6 prop. Masonry. Inspection chamber up to 914.4 mm (3'0") and fitted with light weight 457.2 mm x 457.2 mm (1'6"x1'6") C.I frame and cover of 20 Kg.	Each	3,672.00
80	TBSP-B.II-03	Constructing Brick masonry chamber over the gully trap or peet valve and fitted with 304.8 x 228.6 m size CI frame and hinged cover.	Each	455.00
81	TBSP-B.II-04	Constructing Brick masonry support for G.I pipe with C.M 304.8 x 228.6 x228.6 mm size including plastering and finishing etc. complete.	Each	73.00
82	TBSP-B.II-05	Supply & fixing RCC cover 22" dia with nominal reinforcement 3 " thick and hooks for lifting	Each	705.00
83	TBSP-B.II-06	Supplying & fixing 304.8 x 228.6 mm CI frame & cover over gully taps	Each	119.00
84	TBSP-B.II-07	Supplying & fixing CI Nahany trap grating	Each	19.00
85	TBSP-B.II-08	Supplying & fixing CI gully trap grating	Each	48.00
86	TBSP-B.II-09	Supplying & fixing 914.4 x 457.2 mm CI man hole frame and cover (light weight) 30 Kgs	Each	1,939.00
87	TBSP-B.II-10	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	2,887.00
88	TBSP-B.II-11	Supplying & fixing CI steps for septic tank.	Each	62.00
89	TBSP-B.II-12	Supplying & fixing 50.8 cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber (20 Kgs - Light weight)	Each	1,247.00
90	TBSP-B.II-13	Supplying & fixing 50.8 cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber (Medium weight) as per IS:1726 - 40 Kgs	Each	2,575.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
III	SUB-SECTION	LABOUR CHARGES FOR IC WORKS		
91	TBSP-B.III-01	Making drainage connection from a drainage line in to an existing inspection chamber/ manhole including making a hole in to the chambers, placing necessary pipes in the connection and making good the junction in and out of the chambers including cost of necessary cement, sand and aggregate etc.,	Each	128.00
C	SECTION	C.I. PIPES & FITTINGS - AS PER - IS 1729:1979 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
I	SUB-SECTION	SUPPLYING & LAYING OF C.I. PIPES		
92	TBSP-C.I-01	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 3" dia (75 mm nominal size) Single Socket	1 RM	760.00
93	TBSP-C.I-02	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 4" dia (101.6mm) Single Socket	1 RM	998.00
94	TBSP-C.I-03	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 6" dia (152.4mm) Single Socket	1 RM	1,598.00
95	TBSP-C.I-04	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 3" dia (75 mm nominal size) Double Socket	1 RM	831.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
96	TBSP-C.I-05	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 4" dia (101.6mm) Double Socket	1 RM	1,109.00
97	TBSP-C.I-06	Supplying and fixing of C.I. soil pipes ISI marked conforming to IS:1729-1979 of approved make with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1) including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete for 6" dia (152.4mm) Double Socket	1 RM	1,841.00
II	SUB-SECTION	SUPPLYING & LAYING OF C.I. FITTINGS		
98	TBSP-C.II-01	Supplying & fixing CI Plain bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 3" dia (75 mm nominal size)	Each	296.00
99	TBSP-C.II-02	Supplying & fixing CI Plain bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 4" dia (101.6 mm)	Each	376.00
100	TBSP-C.II-03	Supplying & fixing CI Plain bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 6" dia (152.4 mm)	Each	624.00
101	TBSP-C.II-04	Supplying & fixing CI Plug (Door) bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 3" dia (75 mm nominal size)	Each	367.00
102	TBSP-C.II-05	Supplying & fixing CI Plug (Door) bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 4" dia (101.6 mm)	Each	455.00
103	TBSP-C.II-06	Supplying & fixing CI Plug (Door) bends Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 6" dia (152.4 mm)	Each	994.00
104	TBSP-C.II-07	Supplying and fixing of 75 mm nominal size (3") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	462.00
105	TBSP-C.II-08	Supplying and fixing of 101.6 mm (4") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	723.00
106	TBSP-C.II-09	Supplying and fixing of 152.4 mm (6") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1,714.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
107	TBSP-C.II-10	Supplying and fixing of 75 mm nominal size (3") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	388.00
108	TBSP-C.II-11	Supplying and fixing of 101.6 mm (4") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	531.00
109	TBSP-C.II-12	Supplying and fixing of 152.4 mm (6") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1,276.00
110	TBSP-C.II-13	Supplying and Fixing of 75 mm nominal size (3") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	704.00
111	TBSP-C.II-14	Supplying and Fixing of 101.6 mm (4") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	855.00
112	TBSP-C.II-15	Supplying and Fixing of 152.4 mm (6") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1,999.00
113	TBSP-C.II-16	Supplying and Fixing of 75 mm nominal size (3") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	608.00
114	TBSP-C.II-17	Supplying and Fixing of 101.6 mm (4") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	799.00
115	TBSP-C.II-18	Supplying and Fixing of 152.4 mm (6") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	1,872.00
116	TBSP-C.II-19	Supplying and Fixing of 75mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing -for 76.20 mm (3") C.I. Pipe	Each	298.00
117	TBSP-C.II-20	Supplying and Fixing of 75mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing -for 101.6 mm (4") C.I. Pipe	Each	417.00
118	TBSP-C.II-21	Supplying and Fixing of 75mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing -for 152.4 mm (6") C.I. Pipe	Each	909.00
119	TBSP-C.II-22	Supplying and Fixing of 115 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing - for 76.20 mm (3") C.I. Pipe	Each	355.00
120	TBSP-C.II-23	Supplying and Fixing of 115 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing - for 101.6 mm (4") C.I. Pipe	Each	472.00
121	TBSP-C.II-24	Supplying and Fixing of 115 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing - for 152.4 mm (6") C.I. Pipe	Each	931.00
122	TBSP-C.II-25	Supplying and Fixing of 150 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing for 76.20 mm (3") C.I. Pipe	Each	410.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
123	TBSP-C.II-26	Supplying and Fixing of 150 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing for 101.6 mm (4") C.I. Pipe	Each	531.00
124	TBSP-C.II-27	Supplying and Fixing of 150 mm C.I. Offsets Ist quality conforming to IS:1729-1979 with cement caulked joints and fixing for 152.4 mm (6") C.I. Pipe	Each	1,082.00
125	TBSP-C.II-28	Supplying & fixing CI floor traps 1st quality ISI marked conforming to IS:1729-1979 with C.P. Grating fixing with white cement as per site requirements with standard practice for nominal dia 75 mm (3") and grating size 165 mm dia of weight not less than 5.5 Kgs	Each	539.00
126	TBSP-C.II-29	Supplying & fixing CI floor traps 1st quality ISI marked with C.P. Grating fixing with white cement as per site requirements with standard practice for nominal dia 100 mm (4") and grating size 100 mm dia of weight not less than 6 Kgs	Each	660.00
127	TBSP-C.II-30	Supplying & fixing CI floor traps 1st quality ISI marked conforming to IS:1729-1979 with C.P. Grating fixing with white cement as per site requirements with standard practice for nominal dia 75 mm (3") and grating size 100 mm dia of weight not less than 4.0 Kgs	Each	329.00
128	TBSP-C.II-31	Supplying & fixing CI Collars (double socket) Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 76.20 mm (3") C.I. Pipe	Each	181.00
129	TBSP-C.II-32	Supplying & fixing CI Collars (double socket) Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 101.6 mm (4") C.I. Pipe	Each	227.00
130	TBSP-C.II-33	Supplying & fixing CI Collars (double socket) Ist quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 152.4 mm (6") C.I. Pipe	Each	652.00
III	SUB-SECTION	LABOUR CHARGES FOR CI PIPE WORKS		
131	TBSP-C.III-01	Labour charges only for fixing of C.I. Single/ Double Socket soil pipes of any dia with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar and including fixing of M.S. clamps if necessary with required nails	1 RM	230.00
132	TBSP-C.III-02	Labour charges only for fixing CI Plain/ Plug (Door) bends with cement caulked joints and fixing as per site requirements with standard practice	Each	73.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
133	TBSP-C.III-03	Labour charges only fixing CI soil single junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	92.00
134	TBSP-C.III-04	Labour charges only fixing CI soil Double junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	99.00
135	TBSP-C.III-05	Labour charges only fixing CI soil Collars, Bends, Offsets etc., with cement caulked joints and fixing as per site requirements with standard practice	Each	46.00
136	TBSP-C.III-06	Labour charges only for fixing CI Nahany/ Floor traps with C.P. Grating fixing with white cement as per site requirements with standard practice	Each	60.00
137	TBSP-C.III-07	Boxing of Nahany traps in RCC floors	Each	194.00
138	TBSP-C.III-08	Boxing of W.C Traps in R.C.C floors	Each	389.00
D	SECTION	CENTRIFUGAL CAST IRON PIPES & FITTINGS AS PER IS: 3989 - 1984		
I	SUB-SECTION	SUPPLY OF CENTRIFUGAL CI PIPES		
139	TBSP-D.I-01	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1,500.00
140	TBSP-D.I-02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1,997.00
141	TBSP-D.I-03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	3,661.00
142	TBSP-D.I-04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1,665.00
143	TBSP-D.I-05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	2,247.00
144	TBSP-D.I-06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1,349.00
145	TBSP-D.I-07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1,802.00
146	TBSP-D.I-08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1,207.00
147	TBSP-D.I-09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1,604.00
148	TBSP-D.I-10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	982.00
149	TBSP-D.I-11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1,281.00
150	TBSP-D.I-12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1,032.00
151	TBSP-D.I-13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1,281.00
II	SUB-SECTION	SUPPLY OF C.I. SPUN FITTINGS		
152	TBSP-D.II-01	75 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	358.00
153	TBSP-D.II-02	100 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	411.00
154	TBSP-D.II-03	75 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	513.00
155	TBSP-D.II-04	100 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	589.00
156	TBSP-D.II-05	150 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	1,125.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
157	TBSP-D.II-06	75 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	707.00
158	TBSP-D.II-07	100 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	781.00
159	TBSP-D.II-08	150 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	1,409.00
160	TBSP-D.II-09	75 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1,084.00
161	TBSP-D.II-10	100 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1,463.00
162	TBSP-D.II-11	75 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1,193.00
163	TBSP-D.II-12	100 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1,785.00
164	TBSP-D.II-13	75 mm dia Plain Bend - CI (Spun) fittings	Each	368.00
165	TBSP-D.II-14	100 mm dia Plain Bend - CI (Spun) fittings	Each	433.00
166	TBSP-D.II-15	150 mm dia Plain Bend - CI (Spun) fittings	Each	1,033.00
167	TBSP-D.II-16	75 mm dia Door Bend - CI (Spun) fittings	Each	381.00
168	TBSP-D.II-17	100 mm dia Door Bend - CI (Spun) fittings	Each	494.00
169	TBSP-D.II-18	150 mm dia Door Bend - CI (Spun) fittings	Each	1,130.00
170	TBSP-D.II-19	75 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	368.00
171	TBSP-D.II-20	100 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	433.00
172	TBSP-D.II-21	150 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	1,033.00
173	TBSP-D.II-22	75 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	381.00
174	TBSP-D.II-23	100 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	494.00
175	TBSP-D.II-24	150 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	1,130.00
176	TBSP-D.II-25	Horn Bend Plain 101.6 x 50 mm nominal size (4" x 2") 100 mm dia - CI (Spun) fittings	Each	750.00
177	TBSP-D.II-26	Horn Bend door 101.6 x 50 mm nominal size (4" x 2") 100 mm dia - CI (Spun) fittings	Each	875.00
178	TBSP-D.II-27	75 mm dia Heel Rest Bend - CI (Spun) fittings	Each	392.00
179	TBSP-D.II-28	100 mm dia Heel Rest Bend - CI (Spun) fittings	Each	501.00
180	TBSP-D.II-29	150 mm dia Heel Rest Bend - CI (Spun) fittings	Each	1,065.00
181	TBSP-D.II-30	75 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	494.00
182	TBSP-D.II-31	100 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	666.00
183	TBSP-D.II-32	150 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	1,375.00
184	TBSP-D.II-33	75 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	582.00
185	TBSP-D.II-34	100 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	773.00
186	TBSP-D.II-35	150 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	1,452.00
187	TBSP-D.II-36	75 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	582.00
188	TBSP-D.II-37	100 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	773.00
189	TBSP-D.II-38	150 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	1,704.00
190	TBSP-D.II-39	75 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	638.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
191	TBSP-D.II-40	100 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	853.00
192	TBSP-D.II-41	150 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	1,836.00
193	TBSP-D.II-42	75 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	675.00
194	TBSP-D.II-43	100 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	908.00
195	TBSP-D.II-44	75 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	752.00
196	TBSP-D.II-45	100 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	947.00
197	TBSP-D.II-46	75 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	752.00
198	TBSP-D.II-47	100 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	947.00
199	TBSP-D.II-48	75 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	793.00
200	TBSP-D.II-49	100 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	1,028.00
201	TBSP-D.II-50	75 mm dia Shoe Bend - CI (Spun) fittings	Each	465.00
202	TBSP-D.II-51	100 mm dia Shoe Bend - CI (Spun) fittings	Each	544.00
203	TBSP-D.II-52	150 mm dia Shoe Bend - CI (Spun) fittings	Each	1,105.00
204	TBSP-D.II-53	75 mm dia Collar - CI (Spun) fittings	Each	318.00
205	TBSP-D.II-54	100 mm dia Collar - CI (Spun) fittings	Each	386.00
206	TBSP-D.II-55	150 mm dia Collar - CI (Spun) fittings	Each	793.00
207	TBSP-D.II-56	75 mm dia Cowl - CI (Spun) fittings	Each	281.00
208	TBSP-D.II-57	100 mm dia Cowl - CI (Spun) fittings	Each	318.00
209	TBSP-D.II-58	150 mm dia Cowl - CI (Spun) fittings	Each	714.00
210	TBSP-D.II-59	75 mm dia Offset 3" (75 mm nominal size) projection - CI (Spun) fittings	Each	407.00
211	TBSP-D.II-60	100 mm dia Offset 3" (75 mm nominal size) projection - CI (Spun) fittings	Each	494.00
212	TBSP-D.II-61	150 mm dia Offset 3" (75 mm nominal size) projection - CI (Spun) fittings	Each	997.00
213	TBSP-D.II-62	75 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	445.00
214	TBSP-D.II-63	100 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	582.00
215	TBSP-D.II-64	150 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	1,161.00
216	TBSP-D.II-65	75 mm dia Long Door Bend - CI (Spun) fittings	Each	936.00
217	TBSP-D.II-66	100 mm dia Long Door Bend - CI (Spun) fittings	Each	1,007.00
218	TBSP-D.II-67	75 mm dia Hand Hole pipe (Inspection pipe)	Each	538.00
219	TBSP-D.II-68	100 mm dia Hand Hole pipe (Inspection pipe)	Each	732.00
220	TBSP-D.II-69	150 mm dia Hand Hole pipe (Inspection pipe)	Each	975.00
221	TBSP-D.II-70	75 mm dia P Traps - CI (Spun) fittings	Each	582.00
222	TBSP-D.II-71	100 mm dia P Traps - CI (Spun) fittings	Each	798.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
223	TBSP-D.II-72	4" x 3" (101.6 mm x 76.2mm) P. Traps 100 mm dia - CI (Spun) fittings	Each	915.00
224	TBSP-D.II-73	4" x 3" (101.6 mm x 76.2mm) Vent Traps 100 mm dia - CI (Spun) fittings	Each	915.00
225	TBSP-D.II-74	4" x 3" (101.6 mm x 76.2mm) Reducer 75 mm dia - CI (Spun) fittings	Each	568.00
226	TBSP-D.II-75	6" x 4" (152.4 mm x101.6 mm) Reducer 75 mm dia - CI (Spun) fittings	Each	778.00
227	TBSP-D.II-76	3" x 2" (75 mm nominal size x 50 mm nominal size) plain T 75 mm dia - CI (Spun) fittings	Each	486.00
228	TBSP-D.II-77	3" x 2" (75 mm nominal size x 50 mm nominal size) Door T 75 mm dia - CI (Spun) fittings	Each	758.00
229	TBSP-D.II-78	3" x 2" (75 mm nominal size x 50 mm nominal size) Plain Y 75 mm dia - CI (Spun) fittings	Each	758.00
230	TBSP-D.II-79	3" x 2" (75 mm nominal size x 50 mm nominal size) Door Y 75 mm dia - CI (Spun) fittings	Each	758.00
231	TBSP-D.II-80	4" x 3" (101.6 mm x 76.2mm) Plain T 75 mm dia - CI (Spun) fittings	Each	758.00
232	TBSP-D.II-81	4" x 3" (101.6 mm x 76.2mm) Door T 75 mm dia - CI (Spun) fittings	Each	803.00
233	TBSP-D.II-82	4" x 3" (101.6 mm x 76.2mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	803.00
234	TBSP-D.II-83	4" x 3" (101.6 mm x 76.2mm) Door Y 75 mm dia - CI (Spun) fittings	Each	857.00
235	TBSP-D.II-84	6" x 4" (152.4 mm x101.6 mm) Plain T 75 mm dia - CI (Spun) fittings	Each	1,122.00
236	TBSP-D.II-85	6" x 4" (152.4 mm x101.6 mm) Door T 75 mm dia - CI (Spun) fittings	Each	1,216.00
237	TBSP-D.II-86	6" x 4" (152.4 mm x101.6 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	1,286.00
238	TBSP-D.II-87	6" x 4" (152.4 mm x101.6 mm) Door Y 75 mm dia - CI (Spun) fittings	Each	1,572.00
239	TBSP-D.II-88	75 mm dia Plain " T" 27 " (685.8 mm) Special Types of Long Fittings	Each	1,629.00
240	TBSP-D.II-89	100 mm dia - Plain " T" 27 " (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,288.00
241	TBSP-D.II-90	75 mm dia Door "T" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1,819.00
242	TBSP-D.II-91	100mm dia Door "T" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,514.00
243	TBSP-D.II-92	75 mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1,819.00
244	TBSP-D.II-93	100mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,514.00
245	TBSP-D.II-94	75 mm dia Door " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,028.00
246	TBSP-D.II-95	100mm dia Door " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,760.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
E	SECTION	VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 - 2004 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
I	SUB-SECTION	INDIAN WATER CLOSETS		
247	TBSP-E.I-01	Supplying & fixing approved make Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-2004 with "P" or "S" trap: 580 mm Long	Each	953.00
248	TBSP-E.I-02	Supplying & fixing approved make Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-2004 with "P" or "S" trap: 630 mm Long	Each	953.00
249	TBSP-E.I-03	Supplying & fixing approved make Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-2004 with "P" or "S" trap: 580 mm x 440 mm	Each	1,440.00
250	TBSP-E.I-04	Supplying & fixing approved make Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-2004 with "P" or "S" trap: 630 mm x 450 mm	Each	1,514.00
251	TBSP-E.I-05	Supplying & fixing approved make porcelain foot rest for squatting I.W.C. (Rectangular pair) of sizes 250 mm x 125 mm x 15 mm thick each foot rest 1st quality ISI marked conforming to IS:2556-Part-10:1974	Pair	231.00
252	TBSP-E.I-06	Providing Brick masonry seat for Orissa pan/ Indian W.C. using traditional common burnt clay bricks as per standard practice	Each	298.00
253	TBSP-E.I-07	Providing Cement Concrete Squatting plate for Orissa pan/ Indian W.C. in P.C.C. 1:2:4 as per standard practice	Each	89.00
II	SUB-SECTION	FLOOR MOUNTED EWC		
254	TBSP-E.II-01	Supplying and fixing approved make wash down European Water Closet of 1st quality conforming to IS:2556-Part-2-2004 of white glazed with 'P' trap	Each	1,691.00
255	TBSP-E.II-02	Supplying and fixing approved make wash down European Water Closet of 1st quality conforming to IS:2556-Part-2-2004 of white glazed with 'S' trap	Each	1,785.00
256	TBSP-E.II-03	Supply, Installation and commissioning approved make floor mounted anglo indian wash down EWC conforming to IS:2556 (Part 8)-2004 suit with 'P' or 'S' trap with dual flush porcelain cistern fixed on wash down EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap & 15 mm angle stop cock & 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: White Colour	Each	6,000.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
257	TBSP-E.II-04	Supply, Installation and commissioning approved make floor mounted Close Coupled wash down EWC conforming to IS:2556 (Part 8)-2004 suit with 'P' or 'S' trap with dual flush porcelain cistern fixed on wash down EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap & 15 mm angle stop cock & 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: White Colour	Each	8,808.00
258	TBSP-E.II-05	Supply, Installation and commissioning approved make floor mounted Close Coupled wash down EWC conforming to IS:2556 (Part 8)-2004 suit with 'P' or 'S' trap with dual flush porcelain cistern fixed on wash down EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap & 15 mm angle stop cock & 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: Coloured - Grade - I/ Grade - II	Each	12,872.00
259	TBSP-E.II-06	Supply, Installation and commissioning approved make floor mounted Close Coupled wash down EWC conforming to IS:2556 (Part 8)-2004 with 'P' or 'S' trap with dual flush porcelain cistern fixed on wash down EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap & 15 mm angle stop cock & 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: Special Colour - Grade - III	Each	16,395.00
III	SUB-SECTION	WALL MOUNTED EWC		
260	TBSP-E.III-01	Supply, Installation and commissioning approved make wash down wall mounted EWC conforming to IS:2556 (Part 16)-2002 with 'P' or 'S' trap with concealed flush cistern fixed in wall with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap all of approved make etc. complete for finished item of work in all respects: White colour	Each	9,350.00
261	TBSP-E.III-02	Supply, Installation and commissioning approved make wash down wall mounted EWC conforming to IS:2556 (Part 16)-2002 with 'P' or 'S' trap with concealed flush cistern fixed in wall with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap all of approved make etc. complete for finished item of work in all respects: Coloured Grade-I & II	Each	12,520.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
262	TBSP-E.III-03	Supply, Installation and commissioning approved make wash down wall mounted EWC conforming to IS:2556 (Part 16)-2002 with 'P' or 'S' trap with concealed flush cistern fixed in wall with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap all of approved make etc. complete for finished item of work in all respects: Special Coloured Grade-III	Each	14,770.00
IV	SUB-SECTION	CISTERNs FOR WATER CLOSETS		
263	TBSP-E.IV-01	Supplying & Fixing low down porcelain flushing tank with lid 10 Lit Capacity with internal components	Each	2,304.00
264	TBSP-E.IV-02	Supplying & Fixing internal cistern fittings for dual flush cisterns	Each	1,590.00
265	TBSP-E.IV-03	Supplying & Fixing ultra slim concealed flushing cistern of HDPE body and of size 460 x 450 x 80 mm with internal component for wall mounted Wash down WC	Each	3,580.00
V	SUB-SECTION	PLASTIC SEATS FOR WATER CLOSETS		
266	TBSP-E.V-01	Supplying and Fixing best Indian make plastic seat and lid for European water closets with rubber or plastic Buffers as per IS 2548-1996	Each	810.00
267	TBSP-E.V-02	Supplying and Fixing best Indian make plastic soft closing seat and lid for European water closets with rubber or plastic Buffers as per IS 2548-1996	Each	1,610.00
VI	SUB-SECTION	WASH HAND BASINS		
268	TBSP-E.VI-01	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 660 x 460 mm - Single C.P. Pillar cock	Each	2,466.00
269	TBSP-E.VI-02	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Single C.P. Pillar cock	Each	2,184.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
270	TBSP-E.VI-03	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Double C.P. Pillar cock	Each	2,677.00
271	TBSP-E.VI-04	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Single C.P. Pillar cock	Each	1,620.00
272	TBSP-E.VI-05	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Double C.P. Pillar cock	Each	1,972.00
273	TBSP-E.VI-06	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock	Each	1,409.00
274	TBSP-E.VI-07	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Double C.P. Pillar cock	Each	1,832.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
275	TBSP-E.VI-08	Supplying & Fixing Indian make below counter Wash Hand Basin 1st quality with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block with single CP pillar cock	Each	3,850.00
276	TBSP-E.VI-09	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 600 x 400 x 250	Each	4,508.00
277	TBSP-E.VI-10	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 750 x 450 x 250	Each	5,072.00
278	TBSP-E.VI-11	Supplying & fixing oval shape basin white (520x410mm) parry or equivalent	Each	2,481.00
279	TBSP-E.VI-12	Supplying and Fixing Pedestal for Wash Hand Basin	Each	1,142.00
280	TBSP-E.VI-13	Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	6,865.00
281	TBSP-E.VI-14	Supplying & fixing SINGLE BOWL stainless steel sink size 24"x18"x8 " (609.6 x 457.2 x 203.2mm) 1 mm thick with accessories	Each	5,412.00
282	TBSP-E.VI-15	Supplying & fixing stainless steel sink size 20" x18" x 8 " (508x457.2x203.2mm) 1 mm thick with accessories	Each	4,905.00
283	TBSP-E.VI-16	S & F 609.6 x 457.2 x 254 mm RCC terrazzo finished sink (or constructed at site with 50.8mm thick) brass plug and chain including CI cantilever brackets	Each	719.00
VII	SUB-SECTION	URINALS		
284	TBSP-E.VII-01	Supplying & Fixing white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995	Each	845.00
285	TBSP-E.VII-02	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader fixed with screws complete Indian make : 410 x 265 x 305 mm	Each	2,536.00
286	TBSP-E.VII-03	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader fixed with screws complete Indian make : 590 x 375 x 390 mm	Each	2,818.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
287	TBSP-E.VII-04	Supplying & fixing 4 " x 24 " (101.6x609.6mm) white glazed porcelain channel fixed in brick masonry white cement pointing.	Each	495.00
VIII	SUB-SECTION	LABOUR CHARGES FOR SANITARY WARE		
288	TBSP-E.VIII-01	Labour charges only for fixing Indian pattern W.C with "P" or "S" trap	Each	307.00
289	TBSP-E.VIII-02	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	383.00
290	TBSP-E.VIII-03	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	70.00
291	TBSP-E.VIII-04	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	536.00
292	TBSP-E.VIII-05	Labour charges only for fixing internal cistern fittings of any flushing tank	Each	267.00
293	TBSP-E.VIII-06	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	269.00
294	TBSP-E.VIII-07	Labour charges only for fixing plastic seat and lid for European water closet	Each	78.00
295	TBSP-E.VIII-08	Labour charges only for fixing Indian make Flat Back Wash Hand Basin with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting Pillar Taps complete with standard CI brackets including wooden block	Each	383.00
296	TBSP-E.VIII-09	Labour charges only for fixing pedestal for wash hand basin	Each	139.00
297	TBSP-E.VIII-10	Labour charges only for fixing bottle trap to the wash hand basin	Each	53.00
298	TBSP-E.VIII-11	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	153.00
299	TBSP-E.VIII-12	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	383.00
F	SECTION	CP FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
I	SUB-SECTION	TAPS & FAUCETS - BIB TAPS		
300	TBSP-F.I-01	S&F of 15 mm brass body CP finish bib tap of not less than 300 grams weight screw type (full turn) with internal / external threaded conenction conforming to IS 8931	Each	245.00
301	TBSP-F.I-02	S&F of 15 mm brass body CP finish bib tap of not less than 300 grams weight with quarter turn spindle with either internal or external threaded conenction conforming to IS 8931	Each	599.00
302	TBSP-F.I-03	S&F of 15 mm brass body premium variety Chromium Plated finish bib tap with wall flange of not less than 500 grams weight with quarter turn spindle with either internal or external threaded conenction conforming to IS 8931 and with 10 years warranty	Each	850.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
303	TBSP-F.I-04	S&F of 15 mm brass body premium variety Chromium Plated finish bib tap angular shape with wall flange of not less than 500 grams weight with quarter turn spindle with either internal or external threaded connection conforming to IS 8931 and with 10 years warranty	Each	1,200.00
304	TBSP-F.I-05	S&F of 15 mm brass body CP finish two way bib tap of not less than 400 grams weight with quarter turn spindle internal/ external threaded connection conforming to IS 8931	Each	855.00
305	TBSP-F.I-06	S&F of 15 mm brass body premium variety Chromium Plated finish two way bib tap with flange of not less than 500 grams weight with quarter turn spindle internal/ external threaded connection conforming to IS 8931 and with 10 years warranty	Each	1,100.00
306	TBSP-F.I-07	S&F of Chromium plated finish brass body quarter turn Bibcock cum Health Faucet with 1m long tube and wall hook with 10 years warranty	Each	3,213.00
307	TBSP-F.I-08	S&F of 15 mm brass body CP finish long body bib tap of not less than 400 grams weight with quarter turn spindle internal / external threaded connection conforming to IS 8931	Each	765.00
II	SUB-SECTION	TAPS & FAUCETS - PILLAR TAPS		
308	TBSP-F.II-01	S&F of 15 mm brass body CP finish pillar tap of not less than 300 grams weight screw type (full turn) conforming to IS 8931	Each	626.00
309	TBSP-F.II-02	S&F of 15 mm brass body CP finish pillar tap of not less than 500 grams weight quarter turn spindle conforming to IS 8931	Each	810.00
310	TBSP-F.II-03	S&F of 15 mm brass body Premium variety Chromium plated finish pillar cock with areator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 10 years	Each	825.00
311	TBSP-F.II-04	S&F of 15 mm brass body Premium variety Chromium plated finish long neck pillar cock with areator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 10 years	Each	1,100.00
312	TBSP-F.II-05	S&F of 15 mm brass body Premium variety Chromium plated finish single lever pillar cock with areator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 10 years	Each	1,200.00
313	TBSP-F.II-06	S&F premium make Sensotronic sensor faucet for wash basin, and with 10 years warranty	Each	14,532.00
314	TBSP-F.II-07	S&F premium make Sensotronic concealed type flushing valve for urinal complete set with installation box with control cock, and with 10 years warranty	Each	14,532.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
315	TBSP-F.II-08	S&F premium make Auto closing system pillar cock for wash basin, and with 10 years warranty	Each	2,408.00
316	TBSP-F.II-09	S&F premium make Auto Closing system Bibcock, and with 10 years warranty	Each	2,526.00
III	SUB-SECTION	TAPS & FAUCETS - OTHER TAPS & SPOUTS		
317	TBSP-F.III-01	S&F of 15 mm brass body CP finish self closing tap push type conforming to IS 1711	Each	271.00
318	TBSP-F.III-02	S&F of 15 mm brass body CP finish self closing tap lift type conforming to IS 1711	Each	237.00
319	TBSP-F.III-03	S&F of 15 mm brass body Premium variety Chromium plated finish Swan neck tap with right/left hand operating knob with areator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 10 years	Each	1,600.00
320	TBSP-F.III-04	S&F of 15 mm brass body CP finish wall mounted sink spout with connecting legs & wall flanges swinging nozzle conforming to IS 8931 and with a warranty of 10 years	Each	2,300.00
321	TBSP-F.III-05	S&F of 15 mm brass body CP finish wall mounted sink spout with connecting legs & wall flanges fixed nozzle conforming to IS 8931 and with a warranty of 10 years	Each	1,400.00
322	TBSP-F.III-06	S&F of 15 mm bath tub spout minimum 180 mm projection with divertor system	Each	1,305.00
323	TBSP-F.III-07	S&F of 15 mm bath tub spout with tip ton minimum 180 mm projection with divertor system	Each	1,755.00
IV	SUB-SECTION	STOP & ANGLE VALVES		
324	TBSP-F.IV-01	S & F 15 mm nominal size CP finish brass stop valve screw type with internal /external threaded conforming to IS 8931	Each	231.00
325	TBSP-F.IV-02	S & F 15 mm nominal size brass concealed stop valve screw type with internal /external threaded conforming to IS 8931	Each	247.00
326	TBSP-F.IV-03	S & F 15 mm nominal size CP finish brass angled stop valve screw type with internal /external threaded conforming to IS 8931	Each	236.00
327	TBSP-F.IV-04	S&F of 15 mm CP finish brass stop valve of not less than 400 grams weight quarter turn spindle with internal threaded conforming to IS 8931	Each	783.00
328	TBSP-F.IV-05	S&F of 15 mm CP finish brass concealed stop valve of not less than 400 grams weight quarter turn spindle conforming to IS 8931	Each	607.00
329	TBSP-F.IV-06	S&F of 15 mm CP finish brass concealed stop valve of not less than 400 grams weight with adjustable wall flange and quarter turn spindle conforming to IS 8931 and with 10 years warranty	Each	950.00
330	TBSP-F.IV-07	S&F of 15 mm brass angle stop valve of quarter turn spindle type of not less than 400 grams weight with internal threaded conforming to IS 8931	Each	607.00
V	SUB-SECTION	COMBINATION FAUCETS		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
330	TBSP-F.V-01	S&F of 15 mm CP finish brass body wall mixer with hand shower with center distance 150 mm conforming to IS 8931	Each	2,786.00
331	TBSP-F.V-02	S&F of 15 mm CP finish brass body wall mixer conforming to IS 8931 with center distance 150 mm conforming to IS 8931	Each	2,147.00
332	TBSP-F.V-03	S&F of 15 mm premium variety Chromium plated finish brass body wall mixer with hand shower with a provision for over head shower with 115 mm long bend pipe on upper side, connecting legs & wall flanges conforming to IS 8931 with 10 years warranty	Each	3,650.00
333	TBSP-F.V-04	S&F of 15 mm brass forged body concealed diverter with regular flow	Each	3,380.00
334	TBSP-F.V-05	S&F of 15 mm brass forged body concealed diverter with high flow	Each	4,383.00
335	TBSP-F.V-06	S&F of 15 mm brass forged body concealed diverter forged body with 3 way in let	Each	4,203.00
336	TBSP-F.V-07	S&F of 15 mm central hole Chromium plated finish brass body basin mixer 450 mm long pipe for hot & cold water mixing conforming to IS 8931 and with 10 years warranty	Each	2,741.00
337	TBSP-F.V-08	S&F of 15 mm central hole Chromium plated finish brass body single lever basin mixer 450 mm long breaded pipe for hot & cold water mixing conforming to IS 8931 and with 10 years warranty	Each	3,200.00
338	TBSP-F.V-09	S&F of 15 mm central hole Chromium plated finish brass body sink mixer with swinging cascade round shape spout (wall/ table mounted model) with connecting legs & wall flanges conforming to IS 8931 and with 10 years warranty	Each	2,800.00
VI	SUB-SECTION	SHOWER ROSES & FITTINGS		
339	TBSP-F.VI-01	S&F 15 mm nominal size 152.0 mm CP finish iron body shower rose	Each	186.00
340	TBSP-F.VI-02	S&F 15 mm nominal size 137.0 mm CP finish iron body shower rose	Each	179.00
341	TBSP-F.VI-03	S&F 15 mm nominal size 101.6 mm CP finish iron body shower rose	Each	170.00
342	TBSP-F.VI-04	S&F 15 mm nominal size CP finish shower rose 200 mm dia with CP finish flexible pipe	Each	576.00
343	TBSP-F.VI-05	S&F 15 mm nominal size CP finish brass over head shower arm of 450 mm long with 90 degree bend & wall flange suitable for rain shower	Each	1,233.00
344	TBSP-F.VI-06	S&F 15 mm nominal size Chromium plated finish brass over head shower arm of 450 mm long with 90 degree bend & wall flange suitable for rain shower and with 10 years warranty	Each	1,500.00
345	TBSP-F.VI-07	S&F 15 mm nominal size over head 5 flow round massage shower rose	Each	873.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
346	TBSP-F.VI-08	S&F 15 mm nominal size 5 flow hand shower with rubber cleaning system and 1.5 m long flexible hose and wall hook.	Each	1,800.00
VII	SUB-SECTION	MISCELLANEOUS CP FITTINGS		
347	TBSP-F.VII-01	S&F of 15 mm Stainless steel flexible hose 1.0 m long for hand shower / health faucet with brass nuts	Each	256.00
348	TBSP-F.VII-02	S&F of 15 mm CP finish brass body health faucet gun	Each	210.00
349	TBSP-F.VII-03	S&F CP finish brass bottle trap 250 mm long with wall connection pipe & wall Flange	Each	950.00
350	TBSP-F.VII-04	S&F CP finish brass bottle trap 190mm long with wall connection pipe & wall Flange	Each	954.00
351	TBSP-F.VII-05	S&F PVC bottle trap with wall connection pipe	Each	142.00
352	TBSP-F.VII-06	S&F CP finish brass body 32 mm dia nominal size waste coupling with half/full thread & brass check nut conforming to IS 2963: 1979	Each	234.00
353	TBSP-F.VII-07	S&F CP finish brass body 32 mm dia nominal size waste coupling with half/ full thread & brass body check nut and chain & plug conforming to IS 2963: 1979	Each	255.00
354	TBSP-F.VII-08	S&F CP finish brass body 32 mm dia nominal size waste coupling doom type with half/ full thread & brass body check nut conforming to IS 2963: 1979	Each	302.00
355	TBSP-F.VII-09	S&F brass body CP spreader for urinals	Each	156.00
356	TBSP-F.VII-10	S&F CP finish steel towel rod of 600 mm long and 20 mm dia with brackets	Each	396.00
357	TBSP-F.VII-11	S&F CP finish brass towel rod 600 mm long and 20 mm dia with brackets	Each	1,071.00
358	TBSP-F.VII-12	S&F of Towel rod 24 " premium make powder coated stainless steel body with 10 years warranty	Each	3,240.00
359	TBSP-F.VII-13	S&F CP finish brass wall mounted towel ring	Each	617.00
360	TBSP-F.VII-14	S&F of Chromium plated finish stainless steel body Towel Ring with 10 years warranty	Each	1,004.00
361	TBSP-F.VII-15	S&F of powder coated brass body finish Towel ring premium make with 10 years warranty	Each	2,073.00
362	TBSP-F.VII-16	S&F of Chromium plated finish stainless steel body towel rail 24" with 10 years warranty	Each	1,621.00
363	TBSP-F.VII-17	S&F powder coated stainless steel body wall mounted towel rack 600 mm long	Each	3,402.00
364	TBSP-F.VII-18	S&F CP finish brass metal body single coat hook	Each	405.00
365	TBSP-F.VII-19	S&F CP finish brass robe hook	Each	315.00
366	TBSP-F.VII-20	Supply & Fixing Double coat hook with 10 years warranty	Each	750.00
367	TBSP-F.VII-21	S&F CP finish brass soap dish	Each	567.00
368	TBSP-F.VII-22	S&F Stainless steel liquid soap container wall mounted and bottle type	Each	450.00
369	TBSP-F.VII-23	S&F premium make wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange and with 10 years warranty	Each	5,509.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
370	TBSP-F.VII-24	S&F premium make wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange powder coated with 10 years warranty	Each	8,666.00
371	TBSP-F.VII-25	S&F of Chromium plated finish stainless steel body Toilet paper holder with 10 years warranty	Each	873.00
372	TBSP-F.VII-26	S&F Stainless steel 4" dia round Grating with frame for nahany or floor trap cover with or without hole	Each	63.00
373	TBSP-F.VII-27	S&F Stainless steel 5" square Grating with frame for nahany or floor trap cover with or without hole	Each	76.00
374	TBSP-F.VII-28	S&F Stainless steel 4" dia round Grating for nahany or floor trap cover with cockroach trap with or without hole	Each	165.00
375	TBSP-F.VII-29	S&F Stainless steel 5" square Grating for nahany or floor trap cover with cockroach trap with or without hole	Each	172.00
376	TBSP-F.VII-30	S&F brass body plumber union of size 31.75 mm dia with check nut	Each	69.00
377	TBSP-F.VII-31	S&F brass body plumber union of size 38.1 mm dia with check nut	Each	75.00
378	TBSP-F.VII-32	S&F 4" dia CP thimble pipe: 150 mm long	Each	413.00
379	TBSP-F.VII-33	S&F 4" dia CP thimble pipe: 220 mm long	Each	617.00
380	TBSP-F.VII-34	S&F 4" dia CP thimble pipe: 300 mm long	Each	824.00
381	TBSP-F.VII-35	S&F CP long bend	Each	349.00
382	TBSP-F.VII-36	S&F CP short bend	Each	175.00
383	TBSP-F.VII-37	Supply & fixing of LLC handle set 1st quality	Each	79.00
384	TBSP-F.VII-38	S&F premium make copper pipe 450 mm long with nuts & washers with 10 years warranty	Each	419.00
385	TBSP-F.VII-39	S&F premium make copper pipe 450 mm long with nuts & washers power colour coated and with 10 years warranty	Each	811.00
386	TBSP-F.VII-40	S&F of Chromium plated finish stainless steel body Tumbler holder with 10 years warranty	Each	1,093.00
387	TBSP-F.VII-41	S&F of Chromium plated finish stainless steel body Glass shelf 22" with 10 years warranty	Each	2,149.00
VIII	SUB-SECTION	LABOUR CHARGES		
388	TBSP-F.VIII-01	Labour charges for fixing all types of CP Taps & faucets	Each	48.00
389	TBSP-F.VIII-02	Labour charges for fixing all types of CP Stop & Angle Valves	Each	93.00
390	TBSP-F.VIII-03	Labour charges for fixing all types of wall combination taps, mixers & diverters	Each	164.00
391	TBSP-F.VIII-04	Labour charges for fixing all types of miscellaneous CP fittings	Each	93.00
392	TBSP-F.VIII-05	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000	27.00
G	SECTION	G.I. PIPES & FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
I	SUB-SECTION	G.I. PIPES		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
393	TBSP-G.I-01	S& F 15 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	167.00
394	TBSP-G.I-02	S& F 20 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	192.00
395	TBSP-G.I-03	S& F 25 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	252.00
396	TBSP-G.I-04	S& F 32 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	350.00
397	TBSP-G.I-05	S& F 40 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	396.00
398	TBSP-G.I-06	S& F 50 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	432.00
399	TBSP-G.I-07	S& F 15 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	185.00
400	TBSP-G.I-08	S& F 20 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	206.00
401	TBSP-G.I-09	S& F 25 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	270.00
402	TBSP-G.I-10	S& F 32 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	379.00
403	TBSP-G.I-11	S& F 40 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	424.00
404	TBSP-G.I-12	S& F 50 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	457.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
405	TBSP-G.I-13	S & F 65 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 with GI fittings such as elbows tees couplings, nipples, plugs including excavation for trenches and refilling the trenches complete except for GI bends union and GI connectors with checkout and socket Tata or Zenith make or equivalent.	1 RM	811.00
II	SUB-SECTION	G.I. FITTINGS		
406	TBSP-G.II-01	S& F GI union 15 mm nominal size 1st Quality	Each	41.00
407	TBSP-G.II-02	S& F GI union 20 mm nominal size 1st Quality	Each	49.00
408	TBSP-G.II-03	S& F GI union 25 mm nominal size 1st Quality	Each	75.00
409	TBSP-G.II-04	S& F GI union 30 mm nominal size 1st Quality	Each	93.00
410	TBSP-G.II-05	S& F GI union 40 mm nominal size 1st Quality	Each	111.00
411	TBSP-G.II-06	S& F GI union 50 mm nominal size 1st Quality	Each	137.00
412	TBSP-G.II-07	S& F GI connector 25 mm nominal size dia	Each	82.00
413	TBSP-G.II-08	S& F 15 mm nominal size GI 'T' A class 1st quality	Each	50.00
414	TBSP-G.II-09	S& F 30 mm nominal size dia GI bend 1st quality	Each	75.00
415	TBSP-G.II-10	S & F 30 mm nominal size dia GI 'T' 1st Quality	Each	74.00
416	TBSP-G.II-11	S & F 25 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	426.00
417	TBSP-G.II-12	S & F 20 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	349.00
418	TBSP-G.II-13	S & F 15 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	226.00
419	TBSP-G.II-14	Supplying & fixing leather washers for 15 mm nominal size bib tap and stop cock	Each	1.00
420	TBSP-G.II-15	Supplying & fixing leather washers for 20 mm nominal size bib tap and stop cock	Each	3.00
421	TBSP-G.II-16	Supplying & Fixing 15 mm nominal size fibre washers	Each	3.00
422	TBSP-G.II-17	Supplying & Fixing 20 mm nominal size fibre washers	Each	3.00
423	TBSP-G.II-18	S & F 15 mm nominal size holder bat clamps	Each	12.00
424	TBSP-G.II-19	S & F 20 mm nominal size holder bat clamps	Each	19.00
425	TBSP-G.II-20	S & F 25 mm nominal size holder bat clamps	Each	25.00
426	TBSP-G.II-21	S & F 40 mm nominal size holder bat clamps	Each	29.00
427	TBSP-G.II-22	Supplying & fixing 15 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	43.00
428	TBSP-G.II-23	Supplying & fixing 20 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	62.00
429	TBSP-G.II-24	Supplying & fixing 25 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	74.00
III	SUB-SECTION	BRONZE (COPPER ALLOY) VALVES		
430	TBSP-G.III-01	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 15 mm NB Size	Each	636.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
431	TBSP-G.III-02	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 20 mm NB Size	Each	858.00
432	TBSP-G.III-03	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 25 mm NB Size	Each	1,233.00
433	TBSP-G.III-04	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 32 mm NB Size	Each	1,875.00
434	TBSP-G.III-05	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 40 mm NB Size	Each	2,533.00
435	TBSP-G.III-06	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 50 mm NB Size	Each	3,711.00
436	TBSP-G.III-07	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 65 mm NB Size	Each	5,730.00
437	TBSP-G.III-08	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 80 mm NB Size	Each	8,494.00
438	TBSP-G.III-09	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	470.00
439	TBSP-G.III-10	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	686.00
440	TBSP-G.III-11	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	1,073.00
441	TBSP-G.III-12	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 32 mm NB Size	Each	1,574.00
442	TBSP-G.III-13	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	2,184.00
443	TBSP-G.III-14	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	443.00
444	TBSP-G.III-15	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	576.00
445	TBSP-G.III-16	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	870.00
446	TBSP-G.III-17	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 32 mm NB Size	Each	1,200.00
447	TBSP-G.III-18	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	1,450.00
448	TBSP-G.III-19	Supplying & fixing Bronze Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 50 mm NB Size	Each	2,300.00
449	TBSP-G.III-20	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 15 mm NB Size	Each	207.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
450	TBSP-G.III-21	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 20 mm NB Size	Each	301.00
451	TBSP-G.III-22	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 25 mm NB Size	Each	423.00
452	TBSP-G.III-23	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 32 mm NB Size	Each	751.00
453	TBSP-G.III-24	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 40 mm NB Size	Each	1,033.00
454	TBSP-G.III-25	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 50 mm NB Size	Each	1,552.00
455	TBSP-G.III-26	S & F Bronze Compact pressure reducing valve (Screwed) as per IS - Class -I, Indian make heavy type - 15 mm NB Size	Each	1,348.00
456	TBSP-G.III-27	S & F Bronze Compact pressure reducing valve (Screwed) as per IS - Class -I, Indian make heavy type - 20 mm NB Size	Each	1,716.00
IV	SUB-SECTION	LABOUR CHARGES FOR G.I PLUMBING		
457	TBSP-G.IV-01	Taking branch water connection from the existing 25 mm nominal size GI pipe including cutting threading, etc, complete with fitting	Each	157.00
458	TBSP-G.IV-02	Taking branch water connection from the existing 20 mm nominal size GI pipe including cutting threading, etc, complete with fitting	Each	90.00
459	TBSP-G.IV-03	Taking branch water connection from the existing 15 mm nominal size GI pipe including cutting threading, etc, complete with fitting	Each	62.00
H	SECTION	PVC PIPES & FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
I	SUB-SECTION	PVC PIPES		
460	TBSP-H.I-01	75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	255.00
461	TBSP-H.I-02	90 mm dia 3 M single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	405.00
462	TBSP-H.I-03	110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	484.00
463	TBSP-H.I-04	75 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	288.00
464	TBSP-H.I-05	90 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	459.00
465	TBSP-H.I-06	110 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	562.00
466	TBSP-H.I-07	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	179.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
467	TBSP-H.I-08	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	277.00
468	TBSP-H.I-09	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	344.00
469	TBSP-H.I-10	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	191.00
470	TBSP-H.I-11	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	294.00
471	TBSP-H.I-12	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	356.00
472	TBSP-H.I-13	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	132.00
473	TBSP-H.I-14	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	202.00
474	TBSP-H.I-15	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	243.00
475	TBSP-H.I-16	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	111.00
476	TBSP-H.I-17	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	163.00
477	TBSP-H.I-18	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	210.00
478	TBSP-H.I-19	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	67.00
479	TBSP-H.I-20	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	112.00
480	TBSP-H.I-21	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	140.00
481	TBSP-H.I-22	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	1,153.00
482	TBSP-H.I-23	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	432.00
483	TBSP-H.I-24	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	696.00
484	TBSP-H.I-25	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	828.00
485	TBSP-H.I-26	75 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	473.00
486	TBSP-H.I-27	90 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	750.00
487	TBSP-H.I-28	110 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	914.00
488	TBSP-H.I-29	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	284.00
489	TBSP-H.I-30	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	441.00
490	TBSP-H.I-31	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	525.00
491	TBSP-H.I-32	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe	Each	303.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
		- 6 Kg/sq.cm		
492	TBSP-H.I-33	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	459.00
493	TBSP-H.I-34	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	567.00
494	TBSP-H.I-35	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	205.00
495	TBSP-H.I-36	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	318.00
496	TBSP-H.I-37	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	387.00
497	TBSP-H.I-38	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	177.00
498	TBSP-H.I-39	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	260.00
499	TBSP-H.I-40	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	314.00
500	TBSP-H.I-41	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	114.00
501	TBSP-H.I-42	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	178.00
502	TBSP-H.I-43	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	227.00
503	TBSP-H.I-44	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	1,885.00
II	SUB-SECTION	PVC FITTINGS		
504	TBSP-H.II-01	Providing & Placing on Terrace (at all floor levels) polyethylene water storage tank with Double layer approved brand & manufacture with cover and suitable locking arrangement & making necessary holes for inlet & outlets and over flow pipes but without fittings & base support for tanks	1 Lit	6.00
505	TBSP-H.II-02	Supply of Plastic storage tank lid with hinges	Each	76.00
506	TBSP-H.II-03	Supply & Fixing 75 mm nominal size dia PVC elbow Ist quality	Each	47.00
507	TBSP-H.II-04	Supply & fixing 30 mm nominal sizedia PVC flexible waste pipe of 914.4 mm length of Ist quality	Each	26.00
508	TBSP-H.II-05	Supply & Fixing 40 mm nominal sizedia PVC solid waste pipe outlet	Each	89.00
509	TBSP-H.II-06	Supply & fixing Fancy PVC shelf including all fittings	Each	212.00
510	TBSP-H.II-07	Supply & fixing of PVC low level system with internal components & short bend: 10 Litres capacity Single Flush	Each	1,455.00
511	TBSP-H.II-08	Supply & fixing of PVC low level system with internal components & short bend: 10 litres capacity Dual Flush	Each	1,708.00
512	TBSP-H.II-09	Supply & fixing of PVC low level system with internal components & short bend: 8 Litres capacity single Flush	Each	823.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
513	TBSP-H.II-10	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	50.00
514	TBSP-H.II-11	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	70.00
515	TBSP-H.II-12	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	83.00
516	TBSP-H.II-13	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	67.00
517	TBSP-H.II-14	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	95.00
518	TBSP-H.II-15	110 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	107.00
519	TBSP-H.II-16	75 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	39.00
520	TBSP-H.II-17	90 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	54.00
521	TBSP-H.II-18	110 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	70.00
522	TBSP-H.II-19	75 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	67.00
523	TBSP-H.II-20	90 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	98.00
524	TBSP-H.II-21	110 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	118.00
525	TBSP-H.II-22	75 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	59.00
526	TBSP-H.II-23	90 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	89.00
527	TBSP-H.II-24	110 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	108.00
528	TBSP-H.II-25	75 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	73.00
529	TBSP-H.II-26	90 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	108.00
530	TBSP-H.II-27	110 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	130.00
531	TBSP-H.II-28	75 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	125.00
532	TBSP-H.II-29	90 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	183.00
533	TBSP-H.II-30	110 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	260.00
534	TBSP-H.II-31	75 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	200.00
535	TBSP-H.II-32	90 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	286.00
536	TBSP-H.II-33	110 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	295.00
537	TBSP-H.II-34	75 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	74.00
538	TBSP-H.II-35	90 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	118.00
539	TBSP-H.II-36	110 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	136.00
540	TBSP-H.II-37	75 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	95.00
541	TBSP-H.II-38	90 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	149.00
542	TBSP-H.II-39	110 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	171.00
543	TBSP-H.II-40	75 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	102.00
544	TBSP-H.II-41	90 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	158.00
545	TBSP-H.II-42	110 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	179.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
546	TBSP-H.II-43	75 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	132.00
547	TBSP-H.II-44	90 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	206.00
548	TBSP-H.II-45	110 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	231.00
549	TBSP-H.II-46	75 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	35.00
550	TBSP-H.II-47	90 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	51.00
551	TBSP-H.II-48	110 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	57.00
552	TBSP-H.II-49	90 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	59.00
553	TBSP-H.II-50	110 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	57.00
554	TBSP-H.II-51	90 x 110 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	79.00
555	TBSP-H.II-52	63 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	9.00
556	TBSP-H.II-53	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	14.00
557	TBSP-H.II-54	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	17.00
558	TBSP-H.II-55	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	19.00
559	TBSP-H.II-56	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	11.00
560	TBSP-H.II-57	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	14.00
561	TBSP-H.II-58	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	14.00
562	TBSP-H.II-59	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	15.00
563	TBSP-H.II-60	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	17.00
564	TBSP-H.II-61	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	18.00
565	TBSP-H.II-62	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	35.00
566	TBSP-H.II-63	P' Trap (Small without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	188.00
567	TBSP-H.II-64	P' Trap (Small with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	208.00
568	TBSP-H.II-65	P' Trap (Big with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	238.00
569	TBSP-H.II-66	P' Trap (Big without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	219.00
570	TBSP-H.II-67	Floor Trap (Bell Mouth) 110 mm - UPVC/SWR Pipe fittings	Each	227.00
571	TBSP-H.II-68	Bell Mouth Trap 7 " (177.8 mm) - UPVC/SWR Pipe fittings	Each	330.00
572	TBSP-H.II-69	4" (101.6 mm) Nahany Trap (Without Jali with inlet)UPVC/SWR Pipe fittings	Each	112.00
573	TBSP-H.II-70	3" (75 mm nominal size) Nahany Trap (without Jali without inlet)UPVC/SWR Pipe fittings	Each	87.00
574	TBSP-H.II-71	4" (101.6 mm) Nahany Trap (without inlet with out Jali)UPVC/SWR Pipe fittings	Each	108.00
575	TBSP-H.II-72	Mini Trap - UPVC/SWR Pipe fittings	Each	53.00
576	TBSP-H.II-73	3" (75 mm nominal size) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	102.00
577	TBSP-H.II-74	4" (101.6 mm) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	144.00
578	TBSP-H.II-75	4" (101.6) multi floor trap with out Jalli- UPVC/SWR Pipe fittings	Each	112.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
579	TBSP-H.II-76	Round Jali - UPVC/SWR Pipe fittings	Each	24.00
580	TBSP-H.II-77	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	39.00
581	TBSP-H.II-78	Pipe connector (with LIP ring) - UPVC/SWR Pipe fittings	Each	151.00
582	TBSP-H.II-79	Pipe connector (with out LIP ring) - UPVC/SWR Pipe fittings	Each	117.00
583	TBSP-H.II-80	4" (101.6 mm) Floor Trap - UPVC/SWR Pipe fittings	Each	138.00
584	TBSP-H.II-81	5" (127.mm) floor Trap - UPVC/SWR Pipe fittings	Each	146.00
585	TBSP-H.II-82	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	57.00
586	TBSP-H.II-83	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	64.00
587	TBSP-H.II-84	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	74.00
588	TBSP-H.II-85	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	53.00
589	TBSP-H.II-86	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	61.00
590	TBSP-H.II-87	110 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	64.00
591	TBSP-H.II-88	75 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	8.00
592	TBSP-H.II-89	90 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	9.00
593	TBSP-H.II-90	110 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	11.00
594	TBSP-H.II-91	75 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	9.00
595	TBSP-H.II-92	90 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	11.00
596	TBSP-H.II-93	110 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	14.00
597	TBSP-H.II-94	LIP ring 110 mm - UPVC/SWR Pipe fittings	Each	69.00
598	TBSP-H.II-95	110mm x 90 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	90.00
599	TBSP-H.II-96	160 mm x 110 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	224.00
III	SUB-SECTION	PVC PLUMBING ACCESSORIES		
600	TBSP-H.III-01	Rubber Lubricant - 100 Grams	Each	29.00
601	TBSP-H.III-02	Rubber Lubricant - 250 Grams	Each	65.00
602	TBSP-H.III-03	Rubber Lubricant - 500 Grams	Each	118.00
603	TBSP-H.III-04	Rubber Lubricant - 1000 Grams	Each	219.00
604	TBSP-H.III-05	P' Trap with lip UPVC/SWR Pipe fittings	Each	298.00
605	TBSP-H.III-06	50 ml - Solvent Cement	Each	15.00
606	TBSP-H.III-07	100 ml - Solvent Cement	Each	25.00
607	TBSP-H.III-08	250 ml - Solvent Cement	Each	59.00
608	TBSP-H.III-09	500 ml - Solvent Cement	Each	116.00
609	TBSP-H.III-10	1000 ml - Solvent Cement	Each	227.00
IV	SUB-SECTION	LABOUR CHARGES FOR PVC PLUMBING		
610	TBSP-H.IV-01	Labour charges for laying, fixing and commissioning the PVC pipes including couplers/ bends/ tees etc any diameter including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with solvent jointing as per standard practice	1 RM	71.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
611	TBSP-H.IV-02	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - up to 40 mm dia	1 RM	32.00
612	TBSP-H.IV-03	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - above 40 mm dia	1 RM	53.00
J	SECTION	MISCELLANEOUS ITEMS		
I	SUB-SECTION	MISCELLANEOUS PLUMBING WORK ITEMS		
613	TBSP-J.I-01	Supplying & Fixing solder joints up to 50 mm nominal size dia	Each	61.00
614	TBSP-J.I-02	Supplying & Fixing solution joints up to 50.8 dia 1st quality.	Each	12.00
615	TBSP-J.I-03	Chiselling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	31.00
616	TBSP-J.I-04	Chiselling the stone masonry wall and repairs as directed by the department.	1 Rm	145.00
617	TBSP-J.I-05	Chiselling the brick masonry wall and repairs as directed by the department.	1 Rm	31.00
618	TBSP-J.I-06	Painting the flushing tank with white enamel paint	Each	105.00
619	TBSP-J.I-07	S & F internal cistern fittings for PVC flush tank	Each	820.00
620	TBSP-J.I-08	Repairing and over hauling flushing tank	Each	95.00
621	TBSP-J.I-09	Removing and refixing W.C s	Each	249.00
622	TBSP-J.I-10	Removing and refixing wash hand basins of any size with fittings complete	Each	224.00
623	TBSP-J.I-11	Removing 15 mm nominal size GI pipe and refixing the same	Mr.	69.00
624	TBSP-J.I-12	Removing 20 mm nominal size GI pipe and refixing the same	Mr.	76.00
625	TBSP-J.I-13	Removing 25 mm nominal size GI pipe and refixing the same	Mr.	114.00
626	TBSP-J.I-14	Removing 40 mm nominal size GI pipe and refixing the same	Rm	144.00
627	TBSP-J.I-15	Removing 50 mm nominal size GI pipe and refixing the same	Rm	168.00
628	TBSP-J.I-16	Cleaning the W.C with acid and Vim powder	Each	47.00
629	TBSP-J.I-17	Cleaning the Urinal with acid and Vim powder	Each	47.00
630	TBSP-J.I-18	Cleaning the wash basin with acid and Vim powder	Each	47.00
631	TBSP-J.I-19	Cleaning the E.W.C with acid and Vim powder	Each	47.00
632	TBSP-J.I-20	Cutting holes in C.C; basement & repairs Labour charges only	Each	109.00
633	TBSP-J.I-21	Cutting holes in stone masonry & basement and repairs Labour charges only	Each	73.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
634	TBSP-J.I-22	Cutting holes in Brick masonry & repairs Labour charges only	Each	48.00
635	TBSP-J.I-23	Cutting holes in RCC slab floor & repairs Labour charges only	Each	73.00
636	TBSP-J.I-24	Supplying & Fixing NP chain rubber and plug for basin	Each	42.00
637	TBSP-J.I-25	S & F 25 mm nominal sizedia & 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	164.00
638	TBSP-J.I-26	S & F 19.04 mm dia & 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	142.00
639	TBSP-J.I-27	S & F 609.6 mm long 127 mm wide plate glass shelf with superior quality aluminium railing complete with aluminium screws	Each	209.00
640	TBSP-J.I-28	S & F 609.6 mm long 127 mm wide plate glass shelf only	Each	69.00
641	TBSP-J.I-29	Supplying & fixing 88.9 mm A.C cowls	Each	71.00
642	TBSP-J.I-30	Supplying & fixing A.C Cowl 63.5 mm dia	Each	48.00
643	TBSP-J.I-31	S & F 76.2 x 101.6 mm teak wood block complete	Each	26.00
644	TBSP-J.I-32	Supplying & Fixing 15 mm nominal sizePVC connection with brass union nut C.P coated	Each	102.00
645	TBSP-J.I-33	Removing of 101.6 m or 75 mm nominal size CI pipe	1 RM	39.00
646	TBSP-J.I-34	Supplying & fixing 75 mm nominal size W.I clamps	Each	25.00
647	TBSP-J.I-35	Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457.2 mm	Each	513.00
648	TBSP-J.I-36	Supplying & fixing GI pipe plug of size 15 mm nominal sizedia	Each	10.00
649	TBSP-J.I-37	Supplying & fixing 20 mm dia GI plug	Each	14.00
650	TBSP-J.I-38	Supplying and fixing 40 mm nominal sizedia of GI plug	Each	72.00
651	TBSP-J.I-39	Supplying & fixing 50 mm nominal size dia of GI PLUG	Each	110.00
652	TBSP-J.I-40	Supplying & fixing 75 mm nominal size dia of GI PLUG	Each	200.00
II	SUB-SECTION	POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES		
653	TBSP-J.II-01	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 16 mm OD pipe	1 RM	157.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
654	TBSP-J.II-02	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 20 mm OD pipe	1 RM	195.00
655	TBSP-J.II-03	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 25mm OD pipe	1 RM	244.00
656	TBSP-J.II-04	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 32 mm OD pipe	1 RM	328.00
657	TBSP-J.II-05	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 40 mm OD pipe	1 RM	431.00
658	TBSP-J.II-06	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 50 mm OD pipe	1 RM	548.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
659	TBSP-J.II-07	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 16 mm OD pipe	1 RM	227.00
660	TBSP-J.II-08	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 20 mm OD pipe	1 RM	272.00
661	TBSP-J.II-09	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 25mm OD pipe	1 RM	336.00
662	TBSP-J.II-10	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 32 mm OD pipe	1 RM	443.00
663	TBSP-J.II-11	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 40 mm OD pipe	1 RM	575.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
664	TBSP-J.II-12	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 50 mm OD pipe	1 RM	726.00
665	TBSP-J.II-13	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 16 mm OD pipe	1 RM	185.00
666	TBSP-J.II-14	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 20 mm OD pipe	1 RM	220.00
667	TBSP-J.II-15	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 25mm OD pipe	1 RM	267.00
668	TBSP-J.II-16	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 32 mm OD pipe	1 RM	345.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
669	TBSP-J.II-17	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 40 mm OD pipe	1 RM	442.00
III	SUB-SECTION	OTHER VARIETIES OF PIPES		
670	TBSP-J.III-01	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 13.5	1 RM	141.00
671	TBSP-J.III-02	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 13.5	1 RM	160.00
672	TBSP-J.III-03	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 13.5	1 RM	212.00
673	TBSP-J.III-04	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 13.5	1 RM	289.00
674	TBSP-J.III-05	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 13.5	1 RM	360.00
675	TBSP-J.III-06	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 13.5	1 RM	525.00
676	TBSP-J.III-07	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 11	1 RM	156.00
677	TBSP-J.III-08	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 11	1 RM	189.00
678	TBSP-J.III-09	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 11	1 RM	227.00
679	TBSP-J.III-10	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 11	1 RM	310.00
680	TBSP-J.III-11	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 11	1 RM	383.00
681	TBSP-J.III-12	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 11	1 RM	560.00
682	TBSP-J.III-13	Supply of 20mm x 1.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	48.00
683	TBSP-J.III-14	Supply of 25mm x 2.3mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	73.00
684	TBSP-J.III-15	Supply of 32mm x 2.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	115.00
685	TBSP-J.III-16	Supply of 40mm x 3.7mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	180.00
686	TBSP-J.III-17	Supply of 50mm x 4.6mm PN 10/PPR pipe conforming to DIN Standards 8077/8080	1 RM	321.00
687	TBSP-J.III-18	Supply of 63mm x 5.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8081	1 RM	504.00
688	TBSP-J.III-19	Supply of 75mm x 6.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8082	1 RM	702.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
689	TBSP-J.III-20	Supply of 90mm x 8.2mm PN 10/PPR pipe conforming to DIN Standards 8077/8083	1 RM	963.00
690	TBSP-J.III-21	Supply of 110mm x 10mm PN 10/PPR pipe conforming to DIN Standards 8077/8084	1 RM	1,427.00
691	TBSP-J.III-22	Supply of 20mm x 2.8mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	66.00
692	TBSP-J.III-23	Supply of 25mm x 3.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	102.00
693	TBSP-J.III-24	Supply of 32mm x 4.4mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	163.00
694	TBSP-J.III-25	Supply of 40mm x 5.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	251.00
695	TBSP-J.III-26	Supply of 50mm x 6.9mm PN 16/PPR pipe conforming to DIN Standards 8077/8080	1 RM	449.00
696	TBSP-J.III-27	Supply of 63mm x 8.6mm PN 16/PPR pipe conforming to DIN Standards 8077/8081	1 RM	707.00
697	TBSP-J.III-28	Supply of 75mm x 10.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8082	1 RM	999.00
698	TBSP-J.III-29	Supply of 90mm x 12.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8083	1 RM	1,425.00
699	TBSP-J.III-30	Supply of 110mm x 15.1mm PN 16/PPR pipe conforming to DIN Standards 8077/8084	1 RM	2,134.00
700	TBSP-J.III-31	Supply of 20mm x 3.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	77.00
701	TBSP-J.III-32	Supply of 25mm x 4.2mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	118.00
702	TBSP-J.III-33	Supply of 32mm x 5.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	190.00
703	TBSP-J.III-34	Supply of 40mm x 6.7mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	292.00
704	TBSP-J.III-35	Supply of 50mm x 8.3mm PN 20/PPR pipe conforming to DIN Standards 8077/8080	1 RM	519.00
705	TBSP-J.III-36	Supply of 63mm x 10.5mm PN 20/PPR pipe conforming to DIN Standards 8077/8081	1 RM	819.00
706	TBSP-J.III-37	Supply of 75mm x 12.5mm PN 20/PPR pipe conforming to DIN Standards 8077/8082	1 RM	1,162.00
707	TBSP-J.III-38	Supply of 90mm x 15mm PN 20/PPR pipe conforming to DIN Standards 8077/8083	1 RM	1,579.00
708	TBSP-J.III-39	Supply of 110mm x 18.3mm PN 20/PPR pipe conforming to DIN Standards 8077/8084	1 RM	2,487.00
709	TBSP-J.III-40	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	Each	11.00
710	TBSP-J.III-41	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	Each	15.00
711	TBSP-J.III-42	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	Each	21.00
712	TBSP-J.III-43	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	Each	36.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
713	TBSP-J.III-44	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	Each	70.00
714	TBSP-J.III-45	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	Each	134.00
715	TBSP-J.III-46	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	Each	204.00
716	TBSP-J.III-47	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	Each	391.00
717	TBSP-J.III-48	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	Each	696.00
718	TBSP-J.III-49	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	42.00
719	TBSP-J.III-50	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	67.00
720	TBSP-J.III-51	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	87.00
721	TBSP-J.III-52	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	138.00
722	TBSP-J.III-53	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	161.00
723	TBSP-J.III-54	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	411.00
724	TBSP-J.III-55	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	531.00
725	TBSP-J.III-56	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	18.00
726	TBSP-J.III-57	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	22.00
727	TBSP-J.III-58	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	43.00
728	TBSP-J.III-59	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	75.00
729	TBSP-J.III-60	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	140.00
730	TBSP-J.III-61	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	274.00
731	TBSP-J.III-62	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	443.00
732	TBSP-J.III-63	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	824.00
733	TBSP-J.III-64	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	1,530.00
734	TBSP-J.III-65	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	16.00
735	TBSP-J.III-66	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	28.00
736	TBSP-J.III-67	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	51.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
737	TBSP-J.III-68	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	90.00
738	TBSP-J.III-69	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	160.00
739	TBSP-J.III-70	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	325.00
740	TBSP-J.III-71	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	636.00
741	TBSP-J.III-72	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	922.00
742	TBSP-J.III-73	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	1,598.00
743	TBSP-J.III-74	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	7.00
744	TBSP-J.III-75	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	11.00
745	TBSP-J.III-76	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	21.00
746	TBSP-J.III-77	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	36.00
747	TBSP-J.III-78	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	63.00
748	TBSP-J.III-79	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	134.00
749	TBSP-J.III-80	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	225.00
750	TBSP-J.III-81	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	358.00
751	TBSP-J.III-82	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	708.00
752	TBSP-J.III-83	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	13.00
753	TBSP-J.III-84	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	22.00
754	TBSP-J.III-85	Supply of 32mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	21.00
755	TBSP-J.III-86	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	37.00
756	TBSP-J.III-87	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	36.00
757	TBSP-J.III-88	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	35.00
758	TBSP-J.III-89	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	54.00
759	TBSP-J.III-90	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	55.00
760	TBSP-J.III-91	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	56.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
761	TBSP-J.III-92	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	57.00
762	TBSP-J.III-93	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	124.00
763	TBSP-J.III-94	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	124.00
764	TBSP-J.III-95	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	125.00
765	TBSP-J.III-96	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	126.00
766	TBSP-J.III-97	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	127.00
767	TBSP-J.III-98	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	184.00
768	TBSP-J.III-99	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	185.00
769	TBSP-J.III-100	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	235.00
770	TBSP-J.III-101	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	449.00
771	TBSP-J.III-102	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	476.00
772	TBSP-J.III-103	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	600.00
773	TBSP-J.III-104	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	698.00
774	TBSP-J.III-105	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	753.00
775	TBSP-J.III-106	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	35.00
776	TBSP-J.III-107	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	61.00
777	TBSP-J.III-108	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	62.00
778	TBSP-J.III-109	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	101.00
779	TBSP-J.III-110	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	103.00
780	TBSP-J.III-111	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	105.00
781	TBSP-J.III-112	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	146.00
782	TBSP-J.III-113	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	148.00
783	TBSP-J.III-114	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	152.00
784	TBSP-J.III-115	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	153.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
785	TBSP-J.III-116	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	423.00
786	TBSP-J.III-117	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	425.00
787	TBSP-J.III-118	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	431.00
788	TBSP-J.III-119	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	438.00
789	TBSP-J.III-120	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	445.00
790	TBSP-J.III-121	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	598.00
791	TBSP-J.III-122	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	607.00
792	TBSP-J.III-123	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	805.00
793	TBSP-J.III-124	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	855.00
794	TBSP-J.III-125	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1,459.00
795	TBSP-J.III-126	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1,517.00
796	TBSP-J.III-127	Supply of 20mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	112.00
797	TBSP-J.III-128	Supply of 25mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	115.00
798	TBSP-J.III-129	Supply of 25mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	201.00
799	TBSP-J.III-130	Supply of 32mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	205.00
800	TBSP-J.III-131	Supply of 32mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	212.00
801	TBSP-J.III-132	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	327.00
802	TBSP-J.III-133	Supply of 40mm x 1¼" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	484.00
803	TBSP-J.III-134	Supply of 50mm x 1½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	676.00
804	TBSP-J.III-135	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	899.00
805	TBSP-J.III-136	Supply of 75mm x 2½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1,733.00
806	TBSP-J.III-137	Supply of 20mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	174.00
807	TBSP-J.III-138	Supply of 25mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	180.00
808	TBSP-J.III-139	Supply of 25mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	262.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
809	TBSP-J.III-140	Supply of 32mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	274.00
810	TBSP-J.III-141	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	509.00
811	TBSP-J.III-142	Supply of 40mm x 1¼" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	597.00
812	TBSP-J.III-143	Supply of 50mm x 1½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	834.00
813	TBSP-J.III-144	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1,283.00
814	TBSP-J.III-145	Supply of 75mm x 2½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	2,052.00
815	TBSP-J.III-146	Supply of 20mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	120.00
816	TBSP-J.III-147	Supply of 25mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	125.00
817	TBSP-J.III-148	Supply of 25mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	193.00
818	TBSP-J.III-149	Supply of 32mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	185.00
819	TBSP-J.III-150	Supply of 32mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	216.00
820	TBSP-J.III-151	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	362.00
821	TBSP-J.III-152	Supply of 20mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	180.00
822	TBSP-J.III-153	Supply of 25mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	197.00
823	TBSP-J.III-154	Supply of 25mm x ¾" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	261.00
824	TBSP-J.III-155	Supply of 32mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	251.00
825	TBSP-J.III-156	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	541.00
826	TBSP-J.III-157	Supply of 20mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	116.00
827	TBSP-J.III-158	Supply of 25mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	127.00
828	TBSP-J.III-159	Supply of 25mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	212.00
829	TBSP-J.III-160	Supply of 32mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	223.00
830	TBSP-J.III-161	Supply of 32mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	251.00
831	TBSP-J.III-162	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	352.00
832	TBSP-J.III-163	Supply of 20mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	181.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
833	TBSP-J.III-164	Supply of 25mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	193.00
834	TBSP-J.III-165	Supply of 25mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	277.00
835	TBSP-J.III-166	Supply of 32mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	283.00
836	TBSP-J.III-167	Supply of 32mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	299.00
837	TBSP-J.III-168	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	552.00
838	TBSP-J.III-169	Supply of 20mm x ½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	466.00
839	TBSP-J.III-170	Supply of 25mm x ¾" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	698.00
840	TBSP-J.III-171	Supply of 32mm x 1" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	932.00
841	TBSP-J.III-172	Supply of 40mm x 1¼" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1,306.00
842	TBSP-J.III-173	Supply of 50mm x 1½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	2,099.00
843	TBSP-J.III-174	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	3,334.00
844	TBSP-J.III-175	Supply of 20mm x ½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	534.00
845	TBSP-J.III-176	Supply of 25mm x ¾" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	710.00
846	TBSP-J.III-177	Supply of 32mm x 1" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	932.00
847	TBSP-J.III-178	Supply of 40mm x 1¼" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	1,165.00
848	TBSP-J.III-179	Supply of 50mm x 1½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	2,215.00
849	TBSP-J.III-180	Supply of 63mm x 2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	3,732.00
850	TBSP-J.III-181	Supply of 20mm PPR Union conforming to DIN Standards 8077/8092	Each	102.00
851	TBSP-J.III-182	Supply of 25mm PPR Union conforming to DIN Standards 8077/8092	Each	119.00
852	TBSP-J.III-183	Supply of 32mm PPR Union conforming to DIN Standards 8077/8092	Each	196.00
853	TBSP-J.III-184	Supply of 20mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	186.00
854	TBSP-J.III-185	Supply of 25mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	245.00
855	TBSP-J.III-186	Supply of 32mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	257.00
856	TBSP-J.III-187	Supply of 40mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	526.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2016-17
1	2	3	4	5
857	TBSP-J.III-188	Supply of 50mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	613.00
858	TBSP-J.III-189	Supply of 63mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	992.00
859	TBSP-J.III-190	Supply of 75mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1,633.00
860	TBSP-J.III-191	Supply of 90mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	2,333.00
861	TBSP-J.III-192	Supply of 20mm PPR Clamp conforming to DIN Standards 8077/8092	Each	11.00
862	TBSP-J.III-193	Supply of 25mm PPR Clamp conforming to DIN Standards 8077/8092	Each	14.00
863	TBSP-J.III-194	Supply of 32mm PPR Clamp conforming to DIN Standards 8077/8092	Each	16.00
864	TBSP-J.III-195	Supply of 40mm PPR Clamp conforming to DIN Standards 8077/8092	Each	18.00
NOTE				
1	All the items to be used on work are of first quality & ISI and as approved by the Engineer In charge of the work.			
2	RATES			
	Note: All the prices of the material given in this section are landing costs, including material VAT, loading, cost of conveyance, unloading & stacking at site.			
	a) Supply Rates for all the materials are based on market rates plus Sales Tax/ Material VAT.			
	b) Works Contract VAT for General/ Composition Scheme on finished items may be allowed as applicable.			

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
A	SECTION	S.W.G. PIPES & FITTINGS
		(Landing cost - including material VAT/ loading/ cost of conveyance/ unloading & stacking)
I	SUB-SECTION	SUPPLY & LAYING OF SWG PIPES - Any ISI Brand
II	SUB-SECTION	S.W.G. FITTINGS - Any ISI Brand
C	SECTION	CENTRIFUGAL CI PIPES & FITTINGS - IS : 1729
I	SUB-SECTION	SUPPLY & LAYING OF CAST IRON PIPES - BIC/ NECO
II	SUB-SECTION	SUPPLYING & LAYING OF C.I. FITTINGS - BIC/ NECO
D	SECTION	CENTRIFUGAL CI PIPES & FITTINGS - IS : 3989
I	SUB-SECTION	SUPPLY OF CENTRIFUGAL CI PIPES - BIC/ NECO
II	SUB-SECTION	SUPPLY OF C.I. SPUN FITTINGS - BIC/ NECO
E	SECTION	VITREOUS CHINAWARE - SANITARY APPLIANCES
I	SUB-SECTION	INDIAN WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
II	SUB-SECTION	FLOOR MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
III	SUB-SECTION	WALL MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
IV	SUB-SECTION	CISTERNS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
V	SUB-SECTION	PLASTIC SEATS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
VI	SUB-SECTION	WASH HAND BASINS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
VII	SUB-SECTION	URINALS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar
F	SECTION	CP FITTINGS - TAPS/ FAUCETS & ACCESSORIES
I	SUB-SECTION	TAPS&FAUCETS - BIB TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
II	SUB-SECTION	TAPS&FAUCETS - PILLAR TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
III	SUB-SECTION	TAPS&FAUCETS - OTHER TAPS & SPOUTS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
IV	SUB-SECTION	STOP & ANGLE VALVES - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
V	SUB-SECTION	COMBINATION FAUCETS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
VI	SUB-SECTION	SHOWERS & FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
VII	SUB-SECTION	MISCELLANEOUS CP FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla
G	SECTION	G.I. PIPES & FITTINGS
I	SUB-SECTION	G.I. PIPES - Tata/ JSW/ Oswal/ Zenith
II	SUB-SECTION	G.I. FITTINGS - HB / Kirti/ R-Brand
III	SUB-SECTION	BRONZE (COPPER ALLOY) VALVES - Zoloto/ R-Brand
H	SECTION	PVC PIPES & FITTINGS
I	SUB-SECTION	PVC PIPES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex
II	SUB-SECTION	PVC FITTINGS- Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex
III	SUB-SECTION	PVC PLUMBING ACCESSORIES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex
		PVC Tanks - Sintex
		PVC - LLC Cisterns - Parryware/ Slimlines/ CERA/ Hindware
J	SECTION	MISCELLANEOUS ITEMS
I	SUB-SECTION	POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES - Kitec/ Kisan
II	SUB-SECTION	CPVC PIPES - Supreme/ Ashirvad/ Astral/ Prince / Kisan / Ajay
III	SUB-SECTION	PPR PIPES - Supreme/ Ashirvad/ Astral/ Prince/ Kisan / SFMC

ELECTRICAL ITEMS

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		SECTION - 1			
	1.1	M.S. CONDUIT PIPES			
1	ELEC-1.1.1	Supply of ISI, 20mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB / AKG.	1	Mtr	99.00
2	ELEC-1.1.2	Supply of ISI, 25mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB / AKG.	1	Mtr	126.75
3	ELEC-1.1.3	Supply of ISI, 32mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB / AKG.	1	Mtr	178.50
4	ELEC-1.1.4	Supply of ISI, 38mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB / AKG.	1	Mtr	307.90
5	ELEC-1.1.5	Supply of ISI, 50mm dia,16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB / AKG.	1	Mtr	386.00
6	ELEC-1.1.6	Supply of 19 / 20 mm MS Junction box normal range big size long neck.	1	No	27.00
7	ELEC-1.1.7	Supply of 25 mm MS Junction box normal range big size long neck.	1	No	28.80
8	ELEC-1.1.8	Supply of 32 mm MS Junction box normal range big size long neck.	1	No	79.10
9	ELEC-1.1.9	Supply of 40 / 38 mm MS Junction box normal range big size long neck.	1	No	113.25
10	ELEC-1.1.10	Supply of 50 mm MS Junction box normal range big size long neck.	1	No	221.25
11	ELEC-1.1.11	Supply of 25/20mm.MS Junction deep box.	1	No	71.00
12	ELEC-1.1.12	Supply of 32mm.MS Junction deep box.	1	No	124.00
13	ELEC-1.1.13	Supply of 40mm.MS Junction deep box.	1	No	152.35
14	ELEC-1.1.14	Supply of 19/20mm MS Inspection Bends.	1	No	23.40
15	ELEC-1.1.15	Supply of 25mm MS Inspection Bends.	1	No	25.80
16	ELEC-1.1.16	Supply of 32mm MS Inspection Bends.	1	No	58.00
17	ELEC-1.1.17	Supply of 40/38mm MS Inspection Bends.	1	No	90.00
18	ELEC-1.1.18	Supply of 50mm MS Inspection Bends.	1	No	190.00
19	ELEC-1.1.19	Supply of 19/20mm MS Inspection Tee.	1	No	25.80
20	ELEC-1.1.20	Supply of 25mm MS Inspection Tee.	1	No	27.80
21	ELEC-1.1.21	Supply of 32mm MS Inspection Tee.	1	No	78.60
22	ELEC-1.1.22	Supply of 40/38mm MS Inspection Tee.	1	No	94.80
23	ELEC-1.1.23	Supply of 50mm MS Inspection Tee.	1	No	194.40
24	ELEC-1.1.24	Supply of 19/20mm MS Inspection Elbow.	1	No	20.70
25	ELEC-1.1.25	Supply of 25mm MS Inspection Elbow.	1	No	22.00
26	ELEC-1.1.26	Supply of 32mm MS Inspection Elbow.	1	No	60.10
27	ELEC-1.1.27	Supply of 40/38mm MS Inspection Elbow.	1	No	78.10
28	ELEC-1.1.28	Supply of 50mm MS Inspection Elbow.	1	No	176.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
29	ELEC-1.1.29	Supply of MS Inspection 10 Guage G.I. checknut size 19/20mm.	100	Nos	217.30
30	ELEC-1.1.30	Supply of MS Inspection 10 Guage G.I. checknut size 25mm.	100	Nos	276.70
31	ELEC-1.1.31	Supply of MS Inspection 10 Guage G.I. checknut size 32mm.	100	Nos	562.00
32	ELEC-1.1.32	Supply of MS Inspection 10 Guage G.I. checknut size 40/38mm.	100	Nos	843.40
33	ELEC-1.1.33	Supply of MS Inspection 10 Guage G.I. checknut size 50mm.	100	Nos	1333.50
34	ELEC-1.1.34	Supply of 19/20mm Saddles with Base.	100	Nos	211.00
35	ELEC-1.1.35	Supply of 25mm Saddles with Base.	100	Nos	220.00
36	ELEC-1.1.36	Supply of 32mm Saddles with Base.	100	Nos	409.50
37	ELEC-1.1.37	Supply of 40/38mm Saddles with Base.	100	Nos	705.00
38	ELEC-1.1.38	Supply of 50mm Saddles with Base.	100	Nos	892.50
39	ELEC-1.1.39	Supply of 19/20mm 20 guage Saddles.	100	Nos	116.00
40	ELEC-1.1.40	Supply of 25mm 20 guage Saddles.	100	Nos	149.00
41	ELEC-1.1.41	Supply of 32mm 20 guage Saddles.	100	Nos	244.00
42	ELEC-1.1.42	Supply of 40/38mm 20 guage Saddles.	100	Nos	326.00
43	ELEC-1.1.43	Supply of 50mm 20 guage Saddles.	100	Nos	420.00
44	ELEC-1.1.44	Supply of 19/20mm 16 Guage socket coupler.	12	Nos	60.00
45	ELEC-1.1.45	Supply of 25mm 16 Guage socket coupler.	12	Nos	72.00
46	ELEC-1.1.46	Supply of 32mm 16 Guage socket coupler.	12	Nos	165.00
47	ELEC-1.1.47	Supply of 38mm 16 Guage socket coupler.	12	Nos	300.00
48	ELEC-1.1.48	Supply of 40mm 16 Guage socket coupler.	12	Nos	172.00
49	ELEC-1.1.49	Supply of 50mm 16 Guage socket coupler.	12	Nos	488.60
50	ELEC-1.1.50	Supply of 19mm Ball Socket.	12	Nos	254.00
51	ELEC-1.1.51	Supply of 25mm Ball Socket.	12	Nos	379.00
	1.2	PVC CONDUIT PIPES			
52	ELEC-1.2.1	Supply of ISI 20mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	19.10
53	ELEC-1.2.2	Supply of ISI 20mm outer dia heavy grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	24.20
54	ELEC-1.2.3	Supply of ISI 25mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	25.40
55	ELEC-1.2.4	Supply of ISI 25mm outer dia heavy grade, FRLS with IS:9537 part 3 regid PVC pipe.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	31.80
56	ELEC-1.2.5	Supply of ISI 32mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	42.50
57	ELEC-1.2.6	Supply of ISI 40mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	58.40
58	ELEC-1.2.7	Supply of ISI 50mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	Mtr	81.40
59	ELEC-1.2.8	Supply of FRLS Non - ISI 19mm 1.80mm thick regid PVC pipe.			
		Makes : Million Plast / Sudhakar / Durga / Nandi / Sunlight / Besto Plast.	1	Mtr	18.50
60	ELEC-1.2.9	Supply of FRLS Non - ISI 25mm 1.80mm thick regid PVC pipe.			
		Makes : Million Plast / Sudhakar / Durga / Nandi / Sunlight / Besto Plast.	1	Mtr	24.30
61	ELEC-1.2.10	Supply of 19/20mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	25.40
62	ELEC-1.2.11	Supply of 25mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	31.80
63	ELEC-1.2.12	Supply of 32mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	36.90
64	ELEC-1.2.13	Supply of 38/40mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	63.50
65	ELEC-1.2.14	Supply of Non-ISI 19/20mm width and 12.5mm height Casing and Caping.			
		Makes : Diamond / Durga make.	1	Mtr	17.30
66	ELEC-1.2.15	Supply of Non-ISI 25mm width and 12.5mm height Casing and Caping.			
		Makes : Diamond / Durga make.	1	Mtr	18.50
67	ELEC-1.2.16	Supply of 20mm PVC Flexible Pipe.	1	Mtr	3.70
68	ELEC-1.2.17	Supply of 25mm PVC Flexible Pipe.	1	Mtr	4.90
69	ELEC-1.2.18	Supply of 32mm PVC Flexible Pipe.	1	Mtr	6.10
70	ELEC-1.2.19	Supply of 40mm PVC Flexible Pipe.	1	Mtr	12.20
71	ELEC-1.2.20	Supply of 50mm PVC Flexible Pipe.	1	Mtr	19.40

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
72	ELEC-1.2.21	Supply of 19/20mm PVC Flexible Couplings.	1	No	11.00
73	ELEC-1.2.22	Supply of 25mm PVC Flexible Couplings.	1	No	14.00
74	ELEC-1.2.23	Supply of 32mm PVC Flexible Couplings.	1	No	28.00
75	ELEC-1.2.24	Supply of 40/38mm PVC Flexible Couplings.	1	No	30.00
76	ELEC-1.2.25	Supply of 50mm PVC Flexible Couplings.	1	No	61.00
77	ELEC-1.2.26	Supply of 19/20mm PVC Junction Boxes Normal.	1	No	17.00
78	ELEC-1.2.27	Supply of 25mm PVC Junction Boxes Normal.	1	No	19.00
79	ELEC-1.2.28	Supply of 32mm PVC Junction Boxes Normal.	1	No	34.00
80	ELEC-1.2.29	Supply of 40mm PVC Junction Boxes Normal.	1	No	37.00
81	ELEC-1.2.30	Supply of 50mm PVC Junction Boxes Normal.	1	No	51.00
82	ELEC-1.2.31	Supply of PVC Junction Boxes Deep size 19/20mm.	1	No	22.00
83	ELEC-1.2.32	Supply of PVC Junction Boxes Deep size 25mm.	1	No	25.00
84	ELEC-1.2.33	Supply of PVC Junction Boxes Deep size 32mm.	1	No	40.00
85	ELEC-1.2.34	Supply of PVC Junction Boxes Deep size 40/38mm.	1	No	43.00
86	ELEC-1.2.35	Supply of PVC Junction Boxes Deep size 50mm.	1	No	64.00
87	ELEC-1.2.36	Supply of 19/20mm dia 1.5mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	No	4.00
88	ELEC-1.2.37	Supply of 25mm dia 1.5mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	No	6.00
89	ELEC-1.2.38	Supply of 32mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	No	16.00
90	ELEC-1.2.39	Supply of 40mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	No	19.00
91	ELEC-1.2.40	Supply of 50mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP / Million Plast.	1	No	28.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
92	ELEC-1.2.41	Dummy Cover to PVC junction boxes	1	No	4.00
	1.3	HOT DIP GALVANIZED METAL BOXES (MODULAR)			
93	ELEC-1.3.1	Supply of 1 or 2 Module box	1	No	57.00
94	ELEC-1.3.2	Supply of 3 Module box	1	No	80.00
95	ELEC-1.3.3	Supply of 4 Module box	1	No	96.00
96	ELEC-1.3.4	Supply of 6 Module box	1	No	130.00
97	ELEC-1.3.5	Supply of 8 or 9 Module box Horizontal/Vertical.	1	No	170.00
98	ELEC-1.3.6	Supply of 12 Module box	1	No	209.00
		METALLIC BOXES (MS)			
99	ELEC-1.3.7	Supply of 4" x 4" Metal Box	1	No	53.00
100	ELEC-1.3.8	Supply of 4" x 7" Metal Box	1	No	63.00
101	ELEC-1.3.9	Supply of 6" x 6" Metal Box	1	No	79.00
102	ELEC-1.3.10	Supply of 6" x 8" Metal Box	1	No	105.00
103	ELEC-1.3.11	Supply of 10" x 8" Metal Box	1	No	184.00
104	ELEC-1.3.12	Supply of 10" x 12" Metal Box	1	No	236.00
	1.4	T.W. BOARDS			
105	ELEC-1.4.1	Supply of T.W.Deep Box of Size 4" x 4"	1	No	10.00
106	ELEC-1.4.2	Supply of T.W.Deep Box of Size 4" x 7"	1	No	18.00
107	ELEC-1.4.3	Supply of T.W.Deep Box of Size 6" x 6"	1	No	22.00
108	ELEC-1.4.4	Supply of T.W.Deep Box of Size 6" x 8"	1	No	30.00
109	ELEC-1.4.5	Supply of T.W.Deep Box of Size 8" x 10"	1	No	48.00
110	ELEC-1.4.6	Supply of T.W.Deep Box of Size 10" x 12"	1	No	73.00
111	ELEC-1.4.7	Supply of T.W.Deep Box of Size 12" x 15"	1	No	109.00
112	ELEC-1.4.8	Supply of Decolam Board of Size 4" x 4"	1	No	14.00
113	ELEC-1.4.9	Supply of Decolam Board of Size 4" x 7"	1	No	25.00
114	ELEC-1.4.10	Supply of Decolam Board of Size 6" x 6"	1	No	33.00
115	ELEC-1.4.11	Supply of Decolam Board of Size 6" x 8"	1	No	44.00
116	ELEC-1.4.12	Supply of Decolam Board of Size 8" x 10"	1	No	73.00
117	ELEC-1.4.13	Supply of Decolam Board of Size 10" x 12"	1	No	109.00
118	ELEC-1.4.14	Supply of Decolam Board of Size 12" x 15"	1	No	164.00
119	ELEC-1.4.15	Supply of Peeta Board of Size 9" x 14"	1	No	53.00
120	ELEC-1.4.16	Supply of Peeta Board of Size 12" x 10"	1	No	51.00
121	ELEC-1.4.17	Supply of Peeta Board of Size 15" x 20"	1	No	182.00
122	ELEC-1.4.18	Supply of Peeta Board of Size 18" x 24"	1	No	262.00
123	ELEC-1.4.19	Supply of Peeta Board of Size 18" x 30"	1	No	327.00
124	ELEC-1.4.20	Supply of No.8 Screws of 12mm.	100	Nos	59.00
125	ELEC-1.4.21	Supply of No.8 Screws of 25mm.	100	Nos	72.00
126	ELEC-1.4.22	Supply of No.8 Screws of 30mm.	100	Nos	89.00
127	ELEC-1.4.23	Supply of No.8 Screws of 35/38mm.	100	Nos	96.00
128	ELEC-1.4.24	Supply of No.8 Screws of 50mm.	100	Nos	108.00
129	ELEC-1.4.25	Supply of No.8 Screws of 63/75mm.	100	Nos	131.00
	1.5	COPPER FLEXIBLE CABLES (AS PER IS:694)			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
130	ELEC-1.5.1	Supply of 14/0.3mm (1.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	1051.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	924.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	797.00
131	ELEC-1.5.2	Supply of 22/0.3mm (1.5 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	1555.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	1358.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	1150.00
132	ELEC-1.5.3	Supply of 36/0.3mm (2.5 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	2510.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	2195.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	1856.00
133	ELEC-1.5.4	Supply of 56/0.3mm (4.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	3833.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	3360.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	2783.00
134	ELEC-1.5.5	Supply of 84/0.3mm (6.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	5828.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	5250.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	4305.00
135	ELEC-1.5.6	Supply of 140/0.3mm (10.0 Sqmm) PVC FRLS / HFFR insulated flexible Copper cable.			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	9030.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	7980.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	6825.00
136	ELEC-1.5.7	Supply of 126/0.4mm (16.0 Sqmm) PVC FRLS / HFFR insulated flexible Copper cable			
		Makes : Finolex / RR kabel / Havells.	100	Mtrs	14280.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White.	100	Mtrs	13230.00
		Makes : Nandicab / Benlo / Khanthi / Vimal.	100	Mtrs	10500.00
		SHEATHED FLEXIBLE COPPER CABLES			
137	1.5.8	Supply of PVC Insulated and FRLS Round Sheathed Multi Core Bright Annealed Bare Copper Conductor Heavy Duty Industrial Cables for Voltage Grade upto 1100 Volts as per IS: 694:1990 including all transportation charges etc complete. Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI / Nakoda.			
	a	25 Sqmm Single Core	1	RM	170.00
	b	35 Sqmm Single Core	1	RM	240.00
	c	50 Sqmm Single Core	1	RM	340.00
	d	70 Sqmm Single Core	1	RM	470.00
	e	1.5 Sqmm (22/0.3mm)2 core	1	RM	42.00
	f	2.5 Sqmm (36/.3mm) 2 Core	1	RM	67.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	g	4.0 Sqmm (56/0.3) 2 Core	1	RM	90.00
	h	6.0 Sqmm (84/0.3) 2 Core	1	RM	140.00
	i	4.0 Sqmm (56/0.3) 2 Core	1	RM	100.00
	j	6.0 Sqmm (84/0.3) 2Core	1	RM	155.00
	k	10.0 Sqmm (80/0.4) 2 Core	1	RM	200.00
	l	16.0 Sqmm(126/0.4) 2 Core	1	RM	250.00
	m	1.5 Sqmm (22/0.3mm) 3 core	1	RM	57.00
	n	2.5 Sqmm (36/0.3mm)3 Core	1	RM	97.00
	o	4.0 Sqmm (56/0.3) 3 Core	1	RM	128.00
	p	6.0 Sqmm (84/0.3) 3 Core	1	RM	170.00
	q	10.0 Sqmm (80/0.4) 3 Core	1	RM	219.00
	r	16.0 Sqmm(126/0.4) 3 Core	1	RM	346.00
	s	1.5 Sqmm (22/0.3mm)4 Core	1	RM	74.00
	t	2.5 Sqmm (36/0.3mm) 4 Core	1	RM	112.00
	u	4.0 Sqmm (56/0.3) 4 Core	1	RM	170.00
	v	6.0 Sqmm (84/0.3) 4 Core	1	RM	270.00
	w	10.0 Sqmm (80/0.4) 4 Core	1	RM	400.00
	x	16.0 Sqmm(126/0.4) 4 Core	1	RM	520.00
	y	25.0 Sqmm(196/0.4) 4 Core	1	RM	850.00
	z	35.0 Sqmm(276.04) 4 Core	1	RM	1274.00
	aa	50.0 Sqmm(396/0.4) 4 Core	1	RM	1688.00
	ab	70.0 Sqmm(354/0.5) 4 Core	1	RM	2380.00
138	1.5.9	Supply of PVC Insulated, Flexible Armoured Flexible Copper cable -- -----,, Cores including all transportation charges etc complete.Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI / Nakoda.			
	a	4.0 Sqmm (56/0.3) 2 Core	1	RM	121.00
	b	6.0 Sqmm (84/0.3) 2 Core	1	RM	170.00
	c	10.0 Sqmm (80/0.4) 2 Core	1	RM	240.00
	d	16.0 Sqmm(126/0.4) 2 Core	1	RM	332.01
	e	4.0 Sqmm (56/0.3) 3 Core	1	RM	141.80
	f	6.0 Sqmm (84/0.3) 3 Core	1	RM	202.61
	g	10.0 Sqmm (80/0.4) 3 Core	1	RM	250.00
	h	16.0 Sqmm(126/0.4) 3 Core	1	RM	354.00
	i	2.5 Sqmm (50/0.25) 4 Core	1	RM	140.00
	j	4.0 Sqmm (56/0.3) 4 Core	1	RM	206.00
	k	6.0 Sqmm (84/0.3) 4 Core	1	RM	292.00
	l	10.0 Sqmm (80/0.4) 4 Core	1	RM	450.00
	m	16.0 Sqmm(126/0.4) 4 Core	1	RM	761.25
	n	25.0 Sqmm(196/0.4) 4 Core	1	RM	1175.54

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	o	35.0 Sqmm(276.04) 4 Core	1	RM	1611.75
	p	50.0 Sqmm(396/0.4) 4 Core	1	RM	2287.50
	q	70.0 Sqmm(354/0.5) 4 Core	1	RM	3518.44
	1.6	SERVICE MAINS AND FLAT CABLE OF ISI FOR SUBMERSIBLE MOTORS.			
139	ELEC-1.6.1	Supply of 2.5 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	737.00
140	ELEC-1.6.2	Supply of 6 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	1497.00
141	ELEC-1.6.3	Supply of 10 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	1611.00
142	ELEC-1.6.4	Supply of 16 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	2693.00
143	ELEC-1.6.5	Supply of 6 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	3017.00
144	ELEC-1.6.6	Supply of 10 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	3629.00
145	ELEC-1.6.7	Supply of 16 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	6804.00
146	ELEC-1.6.8	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal.	100	Mtrs	1040.00
147	ELEC-1.6.9	Supply of 3 Core 1.5 Sqmm Flat Copper cable of ISI for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Nakoda.	100	Mtrs	5717.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal.	100	Mtrs	5430.00
148	ELEC-1.6.10	Supply of 3 Core 2.5 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Nakoda.	100	Mtrs	8778.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal.	100	Mtrs	8340.00
149	ELEC-1.6.11	Supply of 3 Core 4.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Nakoda.	100	Mtrs	13167.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal.	100	Mtrs	12510.00
150	ELEC-1.6.12	Supply of 3 Core 6.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Nakoda.	100	Mtrs	19404.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal.	100	Mtrs	18430.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
151	ELEC-1.6.13	Supply of 3 Core 10.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Nakoda.	100	Mtrs	31532.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal.	100	Mtrs	29960.00
	1.7	FLUSH TYPE SWITCHES AND ACCESSORIES			
152	ELEC-1.7.1	Supply of 6A 1 Way flush type Swich.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	18.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	15.00
153	ELEC-1.7.2	Supply of 6A 2 Way flush type Swich.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	19.00
154	ELEC-1.7.3	Supply of 6A 2 pin flush type Socket.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	20.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	15.00
155	ELEC-1.7.4	Supply of 6A 3/2 pin flush type Socket with shutter.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	27.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	20.00
156	ELEC-1.7.5	Supply of 6A flush type Neon Indicator.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	20.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	18.00
157	ELEC-1.7.6	Supply of 6A Triangle Plug Top .			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	35.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	28.00
158	ELEC-1.7.7	Supply of 6A 1 Way flush type Bed Swich / Bell Push.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	18.00
159	ELEC-1.7.8	Supply of 16A flush type Swich.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	65.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	55.00
160	ELEC-1.7.9	Supply of 16A flush type Socket with shutter.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	65.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	55.00
161	ELEC-1.7.10	Supply of 16A flush type Switch Socket combined (2 in one).			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	102.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	85.00
162	ELEC-1.7.11	Supply of 16A Triangle Plug Top.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	50.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	44.00
163	ELEC-1.7.12	Supply of stepped type Electronic Regulator.			
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	220.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	180.00
164	ELEC-1.7.13	Supply of 3 Plate Jumbo Ceiling Rose.			
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1	No	16.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
165	ELEC-1.7.14	Supply of BH / SBH. Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	20.00
166	ELEC-1.7.15	Supply of Pendent Holder / Adopter. Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	17.00
167	ELEC-1.7.16	Supply of Telephone Jack with Connector Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	48.00
168	ELEC-1.7.17	Supply of TV Antenna Outlet. Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	26.00
169	ELEC-1.7.18	Supply of 15A/10A Flush type Fuse. Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	32.00
170	ELEC-1.7.19	Supply of 32A DP Flush type Makes : GM / Million / Gold Medal / Maru Mantero / Anchor Penta Cherry / Great white.	1	No	106.00
		Makes : GM / Gold Medal / Anchor / Great White/ Milltec / Vimal / Maru / Star.	1	No	85.00
171	ELEC-1.7.20	Supply of Calling Bell Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	50.00
172	ELEC-1.7.21	Supply of Buzzer. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	45.00
173	ELEC-1.7.22	Supply of Ding Dong Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	102.00
174	ELEC-1.7.23	Supply of Electronic Musical Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	240.00
175	ELEC-1.7.24	Supply of Remote Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	450.00
176	ELEC-1.7.25	Supply of MC Holder. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	21.00
177	ELEC-1.7.26	Supply of Spike Guard with 1 No Switch and 4 Nos Sockets. Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	310.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
178	ELEC-1.7.27	Supply of Spike Guard with 4 No Switches and 4 Nos Sockets.			
		Makes : GM / Million / Gold Medal / Anchor / Great white.	1	No	410.00
	1.8	MINI MODULAR SWITCHES AND ACCESSORIES			
179	ELEC-1.8.1	Supply of 6A 1 Way Mini Modular Switch with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	23.00
180	ELEC-1.8.2	Supply of 6A 2 Way Mini Modular Switch with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	26.00
181	ELEC-1.8.3	Supply of 6A 2 Pin Mini Modular Socket with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	24.00
182	ELEC-1.8.4	Supply of 6A 3/2 Pin Mini Modular Socket with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	35.00
183	ELEC-1.8.5	Supply of 6A Mini Modular Neon Indicator with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	28.00
184	ELEC-1.8.6	Supply of 6A Mini Modular Bell Push with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	26.00
185	ELEC-1.8.7	Supply of 6A 1 Way Mini Modular Switch with Neon Indicator with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	28.00
186	ELEC-1.8.8	Supply of 6A Mini Modular Bell Push with Neon Indicator with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	39.00
187	ELEC-1.8.9	Supply of 16A Mini Modular Switch with Cover Frame.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	80.00
188	ELEC-1.8.10	Supply of 16A (2 in one) Mini Modular Switch & Socket combined with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	110.00
189	ELEC-1.8.11	Supply of 16A Triangle Top with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	49.00
190	ELEC-1.8.12	Supply of Mini Modular Stepped type Electronic Regulator with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	240.00
191	ELEC-1.8.13	Supply of Mini Modular Telephone Jack with Connector with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	54.00
192	ELEC-1.8.14	Supply of Mini Modular TV Antenna Outlet with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	35.00
193	ELEC-1.8.15	Supply of 16A/10A Mini Modular Flush Fuse with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1	No	40.00
	1.9	MODULAR SWITCHES AND ACCESSORIES			
194	ELEC-1.9.1	Supply of 6A / 10A 1 Way 1 Module Modular Switch			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	92.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	63.00
195	ELEC-1.9.2	Supply of 6A / 10A 2 Way 1 Module Modular Switch.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	101.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	75.00
196	ELEC-1.9.3	Supply of 6A / 10A 2 Pin 2 Module Modular Socket.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	93.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	64.00
197	ELEC-1.9.4	Supply of 6A / 10A 3/2 Pin 2 Module Modular Socket with shutter.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	141.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	93.00
198	ELEC-1.9.5	Supply of 6A / 10A 1 Module Modular Switch with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	117.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	75.00
199	ELEC-1.9.6	Supply of 6A / 10A Modular Bell Push with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	137.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	90.00
200	ELEC-1.9.7	Supply of 16A / 10A Modular Flush Fuse with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	126.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	83.00
201	ELEC-1.9.8	Supply of 16A / 20A 1 Way 1 Module Modular Switch.			
		Makes : GM Four-Five / Legrand Arteur / Schneider Zen celo / Honeywell Blenge Plus.	1	No	126.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	83.00
202	ELEC-1.9.9	Supply of 16A / 20A 2 Way 1 Module Modular Switch.			
		Makes : GM Four-Five / Legrand Arteur / Schneider Zen celo / Honeywell Blenge Plus.	1	No	138.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	95.00
203	ELEC-1.9.10	Supply of 20A 1 Way 1 Module Modular Switch with Indicator.			
		Makes : GM Four-Five / Legrand Arteur / Schneider Zen celo / Honeywell Blenge Plus.	1	No	138.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	91.00
204	ELEC-1.9.11	Supply of 20A 2 Module Modular Socket with shutter.			
		Makes : GM Four-Five / Legrand Arteur / Schneider Zen celo / Honeywell Blenge Plus.	1	No	188.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	133.00
205	ELEC-1.9.12	Supply of 16A/6A 1 way 2 Module Combi Socket Modular Socket with shutter.			
		Makes : GM Four-Five / Legrand Arteur / Schneider Zen celo / Honeywell Blenge Plus.	1	No	196.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	135.00
206	ELEC-1.9.13	Supply of 16A Triangle Top.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	158.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	65.00
207	ELEC-1.9.14	Supply of 1 Module Modular type Electronic step type Fan Regulator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	473.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	375.00
208	ELEC-1.9.15	Supply of Modular socket type Telephone jack with Connector.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	100.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	65.00
209	ELEC-1.9.16	Supply of Modular co-Axial socket type TV Antenna outlet.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	98.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	64.00
		MODULAR COVER FRAMES			
210	ELEC-1.9.17	Supply of 1 or 2 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	65.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	56.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
211	ELEC-1.9.18	Supply of 3 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	77.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	69.00
212	ELEC-1.9.19	Supply of 4 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	89.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	81.00
213	ELEC-1.9.20	Supply of 6 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	130.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	108.00
214	ELEC-1.9.21	Supply of 8 Modular Horizontal / Vertical Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	172.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	137.00
215	ELEC-1.9.22	Supply of 12 Modular Vertical Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1	No	210.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal.	1	No	167.00
		SECTION - 2			
	2.1	PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU) AS PER IS: 13947			
216	ELEC-2.1.1	Supply of 32A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	1351.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	1129.00
217	ELEC-2.1.2	Supply of 63A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	2329.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	1692.00
218	ELEC-2.1.3	Supply of 125A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	5578.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	3827.00
219	ELEC-2.1.4	Supply of 200A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	7280.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	5783.00
220	ELEC-2.1.5	Supply of 250A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	8740.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	6521.00
221	ELEC-2.1.6	Supply of 400A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	13455.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	9960.00
222	ELEC-2.1.7	Supply of 630A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	22759.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1	No	16538.00
	2.2	ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION) AS PER IS:13947			
223	ELEC-2.2.1	Supply of 63A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	4135.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	3749.00
224	ELEC-2.2.2	Supply of 125A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	7828.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	7283.00
225	ELEC-2.2.3	Supply of 200A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	10474.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	9639.00
226	ELEC-2.2.4	Supply of 250A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	14884.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	13709.00
227	ELEC-2.2.5	Supply of 400A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	22712.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	21313.00
228	ELEC-2.2.6	Supply of 630A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : Socomec / L & T	1	No	27012.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	25597.00
229	ELEC-2.2.7	Supply of 32A 4 Pole Change Over Switch on Load with open Execution.			
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1	No	1438.00
	2.3	OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE AS PER IS:13947			
230	ELEC-2.3.1	Supply of 32A 240V DP Off load Changeover Switch in sheet steel enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	1318.00
		Makes : Million / Benlo / Gold Medal / Star / Standard / C&S.	1	No	760.00
231	ELEC-2.3.2	Supply of 63A 415V FP Off load Changeover Switch in sheet steel enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	4594.00
		Makes : Million / Benlo / Gold Medal / Star / Standard / C&S.	1	No	2670.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
232	ELEC-2.3.3	Supply of 100A 415V FP Off load Changeover Switch in sheet steel enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	7006.00
		Makes : Million / Benlo / Gold Medal / Star / Standard / C&S.	1	No	5019.00
	2.4	REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE AS PER IS:13947			
233	ELEC-2.4.1	Supply of 32A 240V SPN Rewirable Fuse Switch in SS enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	936.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	620.00
234	ELEC-2.4.2	Supply of 32A 415V TPN Rewirable Fuse Switch in SS enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	1446.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	1033.00
235	ELEC-2.4.3	Supply of 63A 415V TPN Rewirable Fuse Switch in SS enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	3302.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	2350.00
236	ELEC-2.4.4	Supply of 100A 415V TPN Rewirable Fuse Switch in SS enclosure.			
		Makes : HPL / Havells / Indo Asian	1	No	6148.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	4579.00
237	ELEC-2.4.5	Supply of 100A 415V TPN Double Break Switch in SS enclosure without fuses.			
		Makes : HPL / Havells / Indo Asian	1	No	6190.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	4730.00
238	ELEC-2.4.6	Supply of 200A 415V TPN Double Break Switch in SS enclosure without fuses.			
		Makes : HPL / Havells / Indo Asian	1	No	9025.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1	No	7747.00
	2.5	HRC FUSE LINKS (BOLTED TYPE)			
239	ELEC-2.5.1	Supply of up to 32A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	50.00
240	ELEC-2.5.2	Supply of 32A to 63A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	77.00
241	ELEC-2.5.3	Supply of 125A to 200A HRC Fuse Links.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	248.00
242	ELEC-2.5.4	Supply of 250A to 350A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	363.00
243	ELEC-2.5.5	Supply of 400A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	704.00
244	ELEC-2.5.6	Supply of 630A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	1425.00
	2.6	PORCELAIN REWIRABLE FUSE UNITS.			
245	ELEC-2.6.1	Supply of 32A 240V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	99.00
246	ELEC-2.6.2	Supply of 32A 415V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	123.00
247	ELEC-2.6.3	Supply of 63A 415V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	259.00
248	ELEC-2.6.4	Supply of 100A 415V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	484.00
249	ELEC-2.6.5	Supply of 200A 415V Porcelain Rewirable Fuse Units with extension strip.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	891.00
250	ELEC-2.6.6	Supply of 300A 415V Porcelain Rewirable Fuse Units with extension strip.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1	No	1182.00
	2.7	VOLTAGE SURGE PROTECTORS			
251	ELEC-2.7.1	Supply of 2 Pole 2 Module 40 KA 1.4 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E / L&T.	1	No	8000.00
252	ELEC-2.7.2	Supply of 4 Pole 4 Module 40 KA 1.4 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E / L&T.	1	No	15000.00
253	ELEC-2.7.3	Supply of 2 Pole 2 Module 15 KA 1.2 KV Voltage Surge Protector.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Make:Legrand / Siemens / Hager / G E / L&T.	1	No	6400.00
254	ELEC-2.7.4	Supply of 4 Pole 4 Module 15 KA 1.2 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E / L&T.	1	No	12000.00
	2.8	PANEL MOUNTING MCCBs/ ACBs (Thermal Magnetic Release)			
255	ELEC-2.8.1	Supply of 63A / 60A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	6060.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	4229.00
256	ELEC-2.8.2	Supply of 63A / 60A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	6813.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	5668.00
257	ELEC-2.8.3	Supply of 125A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	7194.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	5530.00
258	ELEC-2.8.4	Supply of 125A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	8700.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	7270.00
259	ELEC-2.8.5	Supply of 250A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 36/35 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	16025.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	14823.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
260	ELEC-2.8.6	Supply of 250A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 35/36 KA with thermal magnetic release Panel Mounted of makes L&T (DN2-250N) / Schneider / Siemens / Hager			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	20818.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	18010.00
261	ELEC-2.8.7	Supply of 400A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 36/35 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	21690.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	19000.00
262	ELEC-2.8.8	Supply of 400A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 50 KA with thermal magnetic release Panel Mounted.			
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1	No	26208.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	22890.00
		PANEL MOUNTING ACBs (Microprocessor Based)			
263	ELEC-2.8.9	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection			
		Makes : Siemens / L&T / Schneider	1	No	104444.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	94000.00
264	ELEC-2.8.10	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection.			
		Makes : Siemens / L&T / Schneider	1	No	139793.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	125813.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
265	ELEC-2.8.11	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection.			
		Makes : Siemens / L&T / Schneider	1	No	129841.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	116857.00
266	ELEC-2.8.12	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection.			
		Makes : Siemens / L&T / Schneider	1	No	173147.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	155832.00
267	ELEC-2.8.13	Supply of 800A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection.			
		Makes : Siemens / L&T / Schneider	1	No	147276.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	132548.00
268	ELEC-2.8.14	Supply of 800A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection.			
		Makes : Siemens / L&T / Schneider	1	No	182744.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1	No	164470.00
269	ELEC-2.8.15	Supply of 1000A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection.			
		Makes : Siemens / L&T / Schneider	1	No	154780.00
270	ELEC-2.8.16	Supply of 1000A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection.			
		Makes : Siemens / L&T / Schneider	1	No	194892.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
271	ELEC-2.8.17	Supply, instalation, testing and commisioning of 800 Amp, 50KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains system made of CRCA sheet steel encloser of thickness not less than 1.5 mm having degree of protection of IP 55 as per 2127. wall strapas, fully PVC insulated four strip ALUMINIUM busbar in convinent sections including , end feed unit, end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc.,			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	Mtr	13328.00
272	ELEC-2.8.18	Supply and Fixing of Spring suspension hanger for rising Main for 400A / 800A Raising Mains.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	5385.00
273	ELEC-2.8.19	Supply and Fixing of Suspension brackets for rising main for 400A / 800A Raising Mains.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	4665.00
274	ELEC-2.8.20	Supply and Fixing of 800 Amps Horizontal / Vertical bends.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	34800.00
275	ELEC-2.8.21	Supply and Fixing of Adopter box for 400A / 800A Raising Mains.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	15000.00
276	ELEC-2.8.22	Supply and Fixing of 800 Amps Copper Flexibles for three phases and neutral.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	46550.00
277	ELEC-2.8.23	Supply, instalation, testing and commisioning of 400 Amp, 50KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains system made of CRCA sheet steel encloser of thickness not less than 1.5 mm having degree of protection of IP 55 as per 2127. wall strapas, fully PVC insulated four strip ALUMINIUM busbar in convinent sections including required end feed unit, end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System, etc.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	Mtr	10413.00
278	ELEC-2.8.24	Supply and Fixing of 400 Amps Horizontal / Vertical bends.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	32750.00
279	ELEC-2.8.25	Supply and Fixing of 400 Amps Copper Flexibles for three phases and neutral.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	40850.00
280	ELEC-2.8.26	Supply and Fixing of 400 Amps Tap off box.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	44550.00
281	ELEC-2.8.27	Supply and Fixing of 250 Amps Tap off box.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	41600.00
	2.9	MCBs (AS PER IS:60898-1:2002)			
282	ELEC-2.9.1	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	201.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	162.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	121.00
283	ELEC-2.9.2	Supply of 40-63A 10KA SP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	423.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	356.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	221.00
284	ELEC-2.9.3	Supply of 6-32A 10KA DP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	595.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	512.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	335.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
285	ELEC-2.9.4	Supply of 40-63A 10KA DP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	962.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	701.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	501.00
286	ELEC-2.9.5	Supply of 6-32A 10KA TP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	955.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	818.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	612.00
287	ELEC-2.9.6	Supply of 40-63A 10KA TP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	1477.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1134.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	945.00
288	ELEC-2.9.7	Supply of 6-32A 10KA FP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	1281.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1062.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	787.00
289	ELEC-2.9.8	Supply of 40-63A FP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	1899.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1424.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	1112.00
	2.10	ISOLATORS CONFIRMS TO I E C 60947 PART-III			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
290	ELEC-2.10.1	Supply of 32A DP Isolator.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	338.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	318.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	215.00
291	ELEC-2.10.2	Supply of 40A DP Isolator.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	367.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	334.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	258.00
292	ELEC-2.10.3	Supply of 63A DP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	488.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	411.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	345.00
293	ELEC-2.10.4	Supply of 40A TP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	624.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	585.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	383.00
294	ELEC-2.10.5	Supply of 63A TP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	725.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	590.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	428.00
295	ELEC-2.10.6	Supply of 40A FP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	814.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	678.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	572.00
296	ELEC-2.10.7	Supply of 63A FP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	890.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	734.00
297	ELEC-2.10.8	Supply of 100A FP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	956.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	918.00
	2.11	RCCBs CONFIRMS TO IEC:61008 AND IS:12640			
298	ELEC-2.11.1	Supply of 40A 2 Pole RCCB 30mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	2700.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2152.00
299	ELEC-2.11.2	Supply of 40A 2 Pole RCCB 100mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	2900.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2118.00
300	ELEC-2.11.3	Supply of 40A 4 Pole RCCB 30mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	2970.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2647.00
301	ELEC-2.11.4	Supply of 40A 4 Pole RCCB 100mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	3135.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2558.00
302	ELEC-2.11.5	Supply of 63A 2 Pole RCCB 30mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	3300.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2902.00
303	ELEC-2.11.6	Supply of 63A 2 Pole RCCB 100mA.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	3330.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2780.00
304	ELEC-2.11.7	Supply of 63A 4 Pole RCCB 30mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	3515.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	3019.00
305	ELEC-2.11.8	Supply of 63A 4 Pole RCCB 100mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	4000.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2947.00
306	ELEC-2.11.9	Supply of MCB type Change Over Switch 20A Double Pole 2 way 400V AC suitable to fix on Din Channel.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	1880.00
	2.12	MCB DISTRIBUTION BOARDS(AS PER IS:13032)			
		SPN DB			
307	ELEC-2.12.1	Supply of 4 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete.			
		Makes : Legrand / Schneider.	1	No	760.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	463.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	328.00
308	ELEC-2.12.2	Supply of 4 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete.			
		Makes : Legrand / Schneider.	1	No	990.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	800.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	551.00
309	ELEC-2.12.3	Supply of 8 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 8Nos S.P out goings and for 1 No Incommer etc complete.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Legrand / Schneider.	1	No	880.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	606.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	446.00
310	ELEC-2.12.4	Supply of 8 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 8Nos S.P out goings and for 1 No Incommer etc complete.			
		Makes : Legrand / Schneider.	1	No	1245.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1130.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	756.00
311	ELEC-2.12.5	Supply of 12 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 12Nos S.P out goings and for 1 No Incommer etc complete.			
		Makes : Legrand / Schneider.	1	No	1045.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	695.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	547.00
312	ELEC-2.12.6	Supply of 12 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 12Nos S.P out goings and for 1 No Incommer etc complete.			
		Makes : Legrand / Schneider.	1	No	1505.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1350.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	957.00
		TPN DB			
313	ELEC-2.12.7	Supply of 4 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 12 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete			
		Makes : Legrand / Schneider.	1	No	1500.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1395.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	1275.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
314	ELEC-2.12.8	Supply of 4 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 12 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete of makes Legrand / Schneider.			
		Makes : Legrand / Schneider.	1	No	2491.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	2200.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	1650.00
315	ELEC-2.12.9	Supply of 4 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for TP / SP out goings etc complete.			
		Makes : Legrand / Schneider.	1	No	6045.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	5600.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	3240.00
316	ELEC-2.12.10	Supply of 4 Way VTPN DB suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and 4 Nos TP MCBs as outgoing and with IP 43 Protection.			
		Makes : Legrand / Schneider.	1	No	7843.00
317	ELEC-2.12.11	Supply of 8 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 24 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete .			
		Makes : Legrand / Schneider.	1	No	3750.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	3500.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	2530.00
318	ELEC-2.12.12	Supply of 8 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for 8 Nos T.P. out goings etc complete.			
		Makes : Legrand / Schneider.	1	No	7770.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	6825.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	5170.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
319	ELEC-2.12.13	Supply of 8 Way VTPN DB suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and 8 Nos TP MCBs as outgoing and with IP 43 Protection.			
		Makes : Legrand / Schneider.	1	No	9823.00
320	ELEC-2.12.14	Supply of 20A SP Plug and Socket with SS enclosure.			
		Makes : Legrand / Schneider.	1	No	901.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	590.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	450.00
321	ELEC-2.12.15	Supply of 20A TP Plug and Socket with SS enclosure.			
		Makes : Legrand / Schneider.	1	No	1700.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1200.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	925.00
322	ELEC-2.12.16	Supply of 32A TP Plug and Socket with SS enclosure.			
		Makes : Legrand / Schneider.	1	No	2000.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / L&T / Honeywell sentry.	1	No	1500.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1	No	1300.00
323	ELEC-2.12.17	Supply of SP Enclosure with IP 20 Protection.	1	No	250.00
324	ELEC-2.12.18	Supply of DP/TP/FP Metal Enclosure with IP 20 Protection.	1	No	366.00
		SECTION - 3			
	3.1	STREET LIGHT LUMINAIRES			
325	ELEC-3.1.1	Supply of 1 x 36/40 W fluorescent street light luminaire with sheet alluminium housing and UV stabilised acrylic cover with Electronic ballast and all standard accessories etc complete.			
		Makes : Wipro / G.E. / Phillips / Crompton / Bajaj / Surya.	1	No	1260.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	990.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
326	ELEC-3.1.2	Supply of 70W SV / MH Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	3265.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	2570.00
327	ELEC-3.1.3	Supply of 150W SV / MH Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	4790.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	3975.00
328	ELEC-3.1.4	Supply of 250W SV / MH Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc complete.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	5500.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	4340.00
329	ELEC-3.1.5	Supply of 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP66 protection with Control Gear Box without lamp			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	7575.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	5765.00
330	ELEC-3.1.6	Supply of 2 x 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP66 protection with Control Gear Box without lamp			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture.	1	No	14770.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
331	ELEC-3.1.7	Supply of 500W Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories.			
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	536.00
332	ELEC-3.1.8	Supply of 1000W Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories			
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	1071.00
333	ELEC-3.1.9	Supply of 1 x 26W CFL well glass, low bay luminaire with die cast alluminium housing epoxy gray powder coated built in Electronic ballast with gink plated wire guard and eye bolt.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Havells.	1	No	2025.00
	3.2	POST TOP LANTERN LUMINAIRES			
334	ELEC-3.2.1	Supply of 1 x 18W CFL integral post top luminaire with conical shape, opal clear acrylic diffuser with cast alluminium pole mounting capsule complete with all accessories and ballast.			
		Makes : Crompton / Bajaj / Surya / Havells / HPL.	1	No	1838.00
335	ELEC-3.2.2	Supply of 70W SV / MH integral HID lamp post top lantern BJDPTI 70SV / MH LPF or its equivalent with diamond / Mushroom / Spherical diffuser etc complete with all accessories.			
		Makes : Wipro / Phillips / Bajaj / Crompton / Surya.	1	No	3822.00
		ACCESSORIES FOR MV / SV / MH LUMINAIRES			
	3.3	COPPER BALLASTS			
336	ELEC-3.3.1	Supply of 80W MV copper ballast.			
		Makes : G.E. / Phillips / Crompton / Bajaj / Surya / Havells / Venture.	1	No	709.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	643.00
337	ELEC-3.3.2	Supply of 125W MV copper ballast.			
		Makes : G.E. / Phillips / Crompton / Bajaj / Surya / Havells / Venture.	1	No	775.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	652.00
338	ELEC-3.3.3	Supply of 70 W SV / MH copper ballast			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	643.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	615.00
339	ELEC-3.3.4	Supply of 150 W SV / MH copper ballast.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	1005.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	902.00
340	ELEC-3.3.5	Supply of 250 W SV / MH copper ballast			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	1428.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	1223.00
341	ELEC-3.3.6	Supply of 400 W SV / MH copper ballast.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix / HPL.	1	No	2089.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	1696.00
342	ELEC-3.3.7	Supply of Ignitor for SV / MH Lamp			
		Makes : Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / HPL / Havells / Venture / Capart.	1	No	180.00
343	ELEC-3.3.8	Supply of 4 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	95.00
344	ELEC-3.3.9	Supply of 10 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	160.00
345	ELEC-3.3.10	Supply of 15 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	190.00
346	ELEC-3.3.11	Supply of 20 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	260.00
347	ELEC-3.3.12	Supply of 33 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	415.00
348	ELEC-3.3.13	Supply of 42 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	460.00
		ENEGRY SAVING ELECTRONIC BALLAST FOR STREET LIGHT			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
349	ELEC-3.3.14	Supply of 70W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee			
		Makes : Phillips / Whipro / Trinic / GE.	1	No	2450.00
350	ELEC-3.3.15	Supply of 150W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee.			
		Makes : Phillips / Whipro / Trinic / GE.	1	No	3350.00
351	ELEC-3.3.16	Supply of 250W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee.			
		Makes : Phillips / Whipro / Trinic / GE.	1	No	4200.00
	3.4	LAMPS			
352	ELEC-3.4.1	Supply of 500W Hallozen Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	108.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	60.00
353	ELEC-3.4.2	Supply of 1000W Hallozen Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	130.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	80.00
354	ELEC-3.4.3	Supply of 70W SV Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	495.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	400.00
355	ELEC-3.4.4	Supply of 150W SV Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	710.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	600.00
356	ELEC-3.4.5	Supply of 250W SV Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	770.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	680.00
357	ELEC-3.4.6	Supply of 400W SV Lamp with ISI mark.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	840.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	780.00
358	ELEC-3.4.7	Supply of 70W double end MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	605.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	530.00
359	ELEC-3.4.8	Supply of 150W double end MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	900.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	800.00
360	ELEC-3.4.9	Supply of 70W MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	890.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	850.00
361	ELEC-3.4.10	Supply of 150W MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	990.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	900.00
362	ELEC-3.4.11	Supply of 250W MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	1350.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	1100.00
363	ELEC-3.4.12	Supply of 400W MH Lamp with ISI mark.			
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / Venture / HPL / Havells / Halonix.	1	No	1540.00
		Makes : Elton / Style Lamp / Mahita Electro / Capart	1	No	1400.00
	3.5	AUTOMATIC STREET LIGHT CONTROL SYSTEMS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
364	ELEC-3.5.1	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 3 KW of single phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	11000.00
365	ELEC-3.5.2	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, with suitable MCBs and contactor suitable to control the load of 5 KW of single phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	11500.00
366	ELEC-3.5.3	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 8 KW of single phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	13100.00
367	ELEC-3.5.4	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 5 KW of Three phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	14400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
368	ELEC-3.5.5	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 8 KW of Three phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	14900.00
369	ELEC-3.5.6	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 12 KW of Three phase load with necessary clamping arrangements.			
		Makes : Swadep Nature Switch / Light Mate.	1	No	18000.00
	3.6	INTERNAL LUMINAIRES			
370	ELEC-3.6.1	Supply of 1 x 11W Mirror light with all standard accessories diffuser			
		Makes : G.E. / Phillips / Crompton / Bajaj.	1	No	678.00
		Makes : Surya / Havells / HPL / Fortune Art	1	No	578.00
371	ELEC-3.6.2	Supply of 1 x 36/40W Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories.			
		Makes : Wipro / G.E. / Phillips / Crompton / Bajaj .	1	No	813.00
		Makes : Surya / Havells / HPL / Fortune Art	1	No	766.00
372	ELEC-3.6.3	Supply of 2 x 36/40W Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories of makes Wipro / G.E. / Phillips / Crompton / Bajaj.			
		Makes : Wipro / G.E. / Phillips / Crompton / Bajaj .	1	No	1222.00
		Makes : Surya / Havells / HPL / Fortune Art	1	No	1173.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
373	ELEC-3.6.4	Supply of 2 x 36/40W Surface / Recessed mounting mirror optic luminaire with powder coated CRCA sheet steel housing with aluminium mirror reflector and decorative end plates with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	2300.00
374	ELEC-3.6.5	Supply of 2 x 36W CFL Paralite louvre (P5) Surface / Recessed low glare Mirror Optic luminaire comprising bright anodised aluminium reflector with Electronic Ballst.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	3400.00
375	ELEC-3.6.6	Supply of 2 x 36W CFL Direct / Indirect Recessed low glare Mirror Optic luminaire comprising bright anodised aluminium reflector with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	3749.00
376	ELEC-3.6.7	Supply of 1 x 18W CFL Indoor recessed mounting horizontal type down lights luminaire with aluminium/Matt finished reflector with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	750.00
377	ELEC-3.6.8	Supply of 9/13W VPIT Ballast for CFL with ISI mark.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	126.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	110.00
378	ELEC-3.6.9	Supply of 18W VPIT Ballast for CFL with ISI mark.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	120.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	110.00
379	ELEC-3.6.10	Supply of 20W / 40W Copper Wound Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	160.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	146.00
380	ELEC-3.6.11	Supply of 18/20W VPIT Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	160.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	145.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
381	ELEC-3.6.12	Supply of 36/40W VPIT Ballast of makes Phillips / Crompton / Bajaj / Surya.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	210.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	170.00
382	ELEC-3.6.13	Supply of 40W Starter of makes Phillips / Crompton / Bajaj / Surya.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	11.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	8.00
383	ELEC-3.6.14	Supply of Rotor holder(FTL).			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	21.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	17.00
384	ELEC-3.6.15	Supply of HID Lamp holder.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	53.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	42.00
385	ELEC-3.6.16	Supply of CFL holder of makes Phillips / Crompton / Bajaj / Surya.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	32.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	25.00
386	ELEC-3.6.17	Supply of FTL Starter holder.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	15.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	12.00
387	ELEC-3.6.18	Supply of 36W Electronic Ballast with total harmonic distortion is less than 10% for FTL.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	614.00
388	ELEC-3.6.19	Supply of 36W Electronic ballast with power factor greater than 0.9 to 0.95 suitable for FTL.			
		Make : Crompton Model No.EBN 136D / Bajaj Model No.BJHF 136 / Havells LHBF 27904025 or its equivalent.	1	No	275.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
389	ELEC-3.6.20	Supply of 2 x 36/40W Industrial Box type tube light luminaire powder coated CRCA sheet steel housing with Reflector and Electronic ballast and all standard accessories.			
		Makes : Crompton / Bajaj / Surya / HPL / Havells.	1	No	1615.00
390	ELEC-3.6.21	Supply of 4 x 14W TL 5 high efficiency recessed luminaire, epoxy powder coated CRCA sheet steel housing, low glare with electronic ballast including cost of lamps etc., complete.			
		Makes: Phillips Model No.sereno-TBS 869 / Bajaj Model No.BTMRA 414 CAT II / Crompton Model No.CRTL414EB/S.	1	No	4300.00
391	ELEC-3.6.22	Supply of 1 x 28W surface pendent mounting T5 Luminaire Box type with CRCA housing with Electronic Ballast and all standard accessories			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells.	1	No	850.00
392	ELEC-3.6.23	Supply of 1 x 28W surface pendent mounting T5 Luminaire plastic housing with integrated reflector extruded aluminium luminaire with Electronic Ballast and all standard accessories.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells.	1	No	540.00
393	ELEC-3.6.24	Supply of Bulk head fitting with cast aluminium enamel painted body with water tight, clear glass with wire guard hinged with lock and key arrangements etc., complete.			
		Makes : Bajaj / Crompton / Surya.	1	No	350.00
394	ELEC-3.6.25	Supply of single fancy bracket with glass shade best Indian make	1	No	215.00
395	ELEC-3.6.26	Supply of double fancy bracket with glass shade best Indian make	1	No	385.00
	3.7	FLOURSCENT TUBES / CFL LAMPS			
396	ELEC-3.7.1	Supply of 40W-60W Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1	No	12.00
397	ELEC-3.7.2	Supply of Night Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1	No	11.00
398	ELEC-3.7.3	Supply of 18/20W fluorescent tube.			
		Makes : Phillips / Crompton / Bajaj / Surya.	1	No	41.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
399	ELEC-3.7.4	Supply of 36/40W fluorescent tube. Makes : Phillips / Crompton / Bajaj / Surya.	1	No	45.00
		Makes : Fortune Art / Style lamp / Mahita Electro / Capart	1	No	38.00
400	ELEC-3.7.5	Supply of 28W T5 fluorescent tube. Makes : Crompton / Bajaj / Phillips / Surya / Havells.	1	No	120.00
401	ELEC-3.7.6	Supply of 9W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	75.00
402	ELEC-3.7.7	Supply of 11W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	80.00
403	ELEC-3.7.8	Supply of 13W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	105.00
404	ELEC-3.7.9	Supply of 18W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	115.00
405	ELEC-3.7.10	Supply of 26W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	160.00
406	ELEC-3.7.11	Supply of 36W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	135.00
407	ELEC-3.7.12	Supply of up to 5W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	115.00
408	ELEC-3.7.13	Supply of up to 8W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	125.00
409	ELEC-3.7.14	Supply of up to 10/11W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	135.00
410	ELEC-3.7.15	Supply of up to 13/14W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	110.00
411	ELEC-3.7.16	Supply of 15W Retrofit tiny CFL . Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	180.00
412	ELEC-3.7.17	Supply of up to 18/20W Retrofit CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	170.00
413	ELEC-3.7.18	Supply of 23W Retrofit CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	200.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
414	ELEC-3.7.19	Supply of up to 25/26W Retrofit CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	200.00
	3.8	ENERGY CONSERVING FIXTURES			
415	ELEC-3.8.1	Supply of 1 x 28W Box type powder coated energy conserving tube light luminaire with Electronic ballast operating voltage range of 90 volts to 350 volts power factor > 0.98 current less than 130ma crest factor and total harmonic distortion shall be as per IS Specification with auto cut off at high voltage suitable for 36/40W tube with 5 years guarantee for luminaire.			
		Makes: Trinic or its equivalent.	1	No	1060.00
416	ELEC-3.8.2	Supply of 28 W Electronic Ballast with less than 10% total harmonic distortion and auto cut off at High Voltage suitable for FTL with 5 years guarantee for luminaire.			
		Makes: Trinic or its equivalent.	1	No	800.00
	3.9	LED LUMINAIRES INDOOR			
417	ELEC-3.9.1	Supply and transportation of 3W LED Down Light Recessed / Surface mounting with System Lumens 270lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 300 Volts AC, P.F 0.9, Surge protection: 2KV, THD<15%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K / 4000K / 5600K ±300K, CRI 80...Manufacture has to submit LM79, LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 and & ISO certified company. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			800.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
418	ELEC-3.9.2	<p>Supply and Transportation of 3W Down lighter with system lumens of 240lm, suitable for Recessed / Surface mounting made of Pressure die cast aluminum body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV,THD<15%, with high power LED's having efficacy of 100 umins/watt,CCT: 3000K - 5700K, minimum CRI 70, .etc., completea)</p> <p>LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>		600.00
419	ELEC-3.9.3	<p>Supply and Transportation of 3W Down lighter with system lumens of 240lm, suitable for Recessed / Surface mounting made of Pressure die cast aluminum body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV,THD<15%, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K - 5700K, minimum CRI 70, .etc., complete.</p> <p>LUMINAIRE MAKE : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Godwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>		540.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
420	ELEC-3.9.4	Supply and transportation of 6W LED Down Light Recessed / Surface mounting with System Lumens 510lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 270 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 80...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1600.00
421	ELEC-3.9.5	Supply and transportation of 6W LED slim panel Light Round / Square with System Lumens 510lm, Housing made of Powder coated die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 100 lumens/watt, CCT: 3000K/4000K/5600K ±300K, CRI 70. Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 ISO certified company. LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
422	ELEC-3.9.6	Supply and Transportation of 6W Down lighter with system lumens of 480lm, suitable for Recessed / Surface mounting made of pressure die cast aluminum body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 270 Volts AC, P.F 0.9, Surge protection: 2KV, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K - 5700K, minimum CRI 70, .etc., complete. LUMINAIRE MAKE : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Godwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1300.00
423	ELEC-3.9.7	Supply and Transportation of 6W Down lighter with system lumens of 480lm, suitable for Recessed / Surface mounting made pressure die cast aluminum body with powder coating, acrylic diffuser with Driver,operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, with high power LED's having efficacy of 90 lumens/watt, CCT: 3000K - 5700K, minimum CRI 70, .etc., complete.LUMINAIRE MAKE : Procorp / Scintilla / R-LED / ilite LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1	No	1150.00
424	ELEC-3.9.8	Supply and transportation of 12W LED Down Light Recessed / Surface mounting with System Lumens 1000lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 80...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1, IEC 60529 & ISO certified company. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE /	1	No	2350.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		NICHIA / OSRAM / SAMSUNG / LG LEDs.			
425	ELEC-3.9.9	Supply and Transportation of 12W Down lighter with system lumens of 1000lm, suitable for Recessed / Surface mounting made of pressure die cast aluminum body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<15%, with high power LED's having efficacy of 100 lumens/watt,CCT: 3000K - 5700K, minimum CRI 70,.etc., complete with 3 years warranty. LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1960.00
426	ELEC-3.9.10	Supply and Transportation of 12W Down lighter with system lumens of 1000lm, suitable for Recessed / Surface mounting made of pressure die cast aluminum body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<15%, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K - 5700K, minimum CRI 70,.etc., complete with 3 years warranty.LUMINAIRE MAKE : Trinic / Avni / Krips Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1610.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
427	ELEC-3.9.11	<p>Supply and transportation of 12W LED slimline panel light with System Lumens 1000lm, Housing made of Powder coated, round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 80...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.</p> <p>LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>	1 No	1260.00
428	ELEC-3.9.12	<p>Supply and transportation of 12W LED slimline panel Light with System Lumens 1000lm, Housing made of Powder coated, round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 100 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.</p> <p>LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>	1 No	1170.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
429	ELEC-3.9.13	Supply and transportation of 12W LED slimline panel Light with System Lumens 1000lm, Housing made of Powder coated, round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.LUMINAIRE MAKE : Trinic / Avni / Krips Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1050.00
430	ELEC-3.9.14	Supply and transportation of 18W LED Down Light Recessed / Surface mounting with System Lumens 1540lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 80...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	2890.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
431	ELEC-3.9.15	Supply and transportation of 18W LED Down Light Recessed / Surface mounting with System Lumens 1500 lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 100 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79, LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	2210.00
432	ELEC-3.9.16	Supply and transportation of 18W LED Down Light Recessed / Surface mounting with System Lumens 1540lm, Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. LUMINAIRE MAKE : Trinic / Avni / Krips Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1610.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
433	ELEC-3.9.17	Supply and transportation of 18W LED slim panel Light with System Lumens 1540lm, Housing made of Powder coated aluminum housing with extended heat sink, Round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 80...Manufacture has to submit LM79, LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1870.00
434	ELEC-3.9.18	Supply and transportation of 18W LED slim panel Light with System Lumens 1500lm, Housing made of Powder coated aluminum housing with extended heat sink, Round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 100 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79, LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. LUMINAIRE MAKE : Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1660.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
435	ELEC-3.9.19	Supply and transportation of 18W LED slim panel Light with System Lumens 1500lm, Housing made of Powder coated aluminum housing with extended heat sink, Round / Square with Protruded plastic Diffuser, IP20, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring, LG7 standard applicable, operating voltage range of 150 to 265 Volts AC, P.F 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of 90 lumens/watt,CCT: 3000K/4000K/5600K ±300K, CRI 70...Manufacture has to submit LM79, LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company.LUMINAIRE MAKE : Trinic / Avni / Krips Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1520.00
436	ELEC-3.9.20	Supply and transportation of 20W, 2000 lumens, T8,1200mm length LED tube light, input voltage AC 220 - 260Volts with PF 0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 80,.etc., complete Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 ISO certified company. LUMINAIRE MAKE: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1400.00
437	ELEC-3.9.21	Supply and transportation of 20W, 2000 lumens, T8,1200mm length LED tube light, input voltage AC 220 - 260 Volts with PF 0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 70,.etc.,complete. LUMINAIRE MAKE: Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / R-LED / GM / Million.	1 No	1200.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
438	ELEC-3.9.22	Supply and transportation of 20W, 2000 lumens, T8,1200mm length LED tube light, input voltage AC 220 - 260 Volts with PF 0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 70,.etc.,complete.LUMINAIRE MAKE : Avni / Stanjo / Cosmo / VRILISO / JSTC Solar.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1100.00
439	ELEC-3.9.23	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 LED light, input voltage AC 165 - 260 Volts with PF 0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 80, Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. .etc., complete. LUMINAIRE MAKE: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1300.00
440	ELEC-3.9.24	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 LED light, input voltage AC 165 - 260 Volts with PF 0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 70, Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. .etc., complete. LUMINAIRE MAKE: Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1100.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
441	ELEC-3.9.25	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 LED light, input voltage AC 165 - 260 Volts with PF 0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI 70, Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 & ISO certified company. .etc., complete. LUMINAIRE MAKE: Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	1000.00
442	ELEC-3.9.26	Supply and Transportation of 36W , 2' x 2' (600mm x 600mm) slim panel LED luminaire Round / Square with System Lumens of 3000, Housing Made of Aluminum alloy with corrosion resistant powder coat, with Diffuser , operating voltage range of 100 to 270 Volts AC, P.F 0.95, Surge protection: 2KV, THD<10%, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K - 5700K, minimum CRI 80, Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 and Manufacture should be ISO certified company.LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	5350.00
443	ELEC-3.9.27	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) slim panel LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 100 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete. LUMINAIRE MAKE: Pharox / Surya /	1	No	4760.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Syska / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
444	ELEC-3.9.28	Supply and Transportation of 36W 2' x2' (600mm x 600mm) Slim panel LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 90 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete. LUMINAIRE MAKE : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	4420.00
445	ELEC-3.9.29	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) Recessed / Surface mounted LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 100 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete.company. LUMINAIRE MAKE : Phillips - / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	5180.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
446	ELEC-3.9.30	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) Recessed / Surface mounted LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 100 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete. LUMINAIRE MAKE: Pharox / Surya / Syska / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / R-LED / GM / Million. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4420.00
447	ELEC-3.9.31	Supply and Transportation of 36W Recessed / Surface mounting 2' x 2' (600mm x 600mm) LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 90 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete. LUMINAIRE MAKE : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla / JSTC Solar. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4160.00
448	ELEC-3.9.32	Supply and Transportation of 45W , 2' x 2' (600mm x 600mm) slim LED luminaire Round / Square with System Lumens of 3000, Housing Made of Aluminum alloy with corrosion resistant powder coat, with Diffuser , operating voltage range of 100 to 270 Volts AC, P.F 0.95, Surge protection: 2KV, THD<10%, Inbuilt Electrical protections like Over/Under voltage, short circuit, Over load, Open Circuit, Miswiring with high power LED's having efficacy of 110 lumens/watt,CCT: 3000K - 5700K, minimum CRI 70, Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 and Manufacture should be ISO certified	1 No	5780.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		company.LUMINAIRE MAKE : Phillips - / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
449	ELEC-3.9.33	Supply and Transportation of 45W, 2' x2' (600mm x 600mm) slim LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor 0.9 high power LEDs having efficacy of 100 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12%, minimum CRI 70, etc., complete. LUMINAIRE MAKE: Pharox / Surya / Muelux / Fortune Art / Syska / Green lites. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1	No	5350.00
450	ELEC-3.9.34	Supply and transportation of MS frame with powder coating suitable for 600mm x 600mm LED panel light.	1	No	475.00
451	ELEC-3.9.35	Supply & Fixing of LED box type batten frame made with CRCA sheet powder coated.	1	No	150.00
	3.10	LED INDOOR LAMPS			
452	ELEC-3.10.1	Supply of 0.5W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 40 Lumens.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Greenlites.	1	No	70.00
453	ELEC-3.10.2	Supply of 3.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 210 Lumens of Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / Green lites.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1	No	175.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
454	ELEC-3.10.3	Supply of 5.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 350 Lumens of Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / Green lites.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1	No	250.00
455	ELEC-3.10.4	Supply of 7.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 490 Lumens.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1	No	299.00
456	ELEC-3.10.5	Supply of LED Candel Lamp for shandliers.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1	No	250.00
	3.11	LED STREET LIGHTS			
457	ELEC-3.11.1	Supply and transportation of LED Street light Body made of high grade pressure die – cast Aluminum alloy with corrosion resistant powder coat, having protective toughened glass cover, Less Glare, IP 66 (Silicon gasket ensures Optical & Electrical compartments are IP 66) protected, universal Voltage 100 - 270 V AC, P.F, 0.90, high power LED's having efficacy 130 lumens/watt, and junction temperature < 75°C, with Ingress protection IP66, Driver surge protection 4KV, with optics distribution Type II medium, THD<10% at 110 Volts AC, driver efficiency 90%, CCT: 5600K, minimum CRI 80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, Intelligent pole mounting option provides flexibility of vertical or horizontal pole mounting option complete, with Top Openable Maintenance and Manufacture has to submit LM79,LM80 & Photobiological Safety Report. Luminaire Performance Complies to IS10322 (Part 5/Sec 3) & IEC 60598-1,IEC 60529 and ISO certified company. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
	a	20 W	1	No	5000.00
	b	30 W	1	No	8400.00
	c	43 / 45 W	1	No	8600.00
	d	60 / 65 W	1	No	14400.00
	e	72 W	1	No	14600.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	f	90W	1	No	19000.00
	g	120 W	1	No	23000.00
	h	150 W	1	No	25500.00
	i	180 W	1	No	28500.00
	j	210 W	1	No	33320.00
458	ELEC-3.11.2	Supply and transportation of LED Street light Luminaire made of high grade aluminum pressure die cast housing body with powder coated, having protective toughened glass (Silicon gasket ensures Optical & Electrical compartments are IP 66)protected, Supply Input voltage 120 - 270 V AC, P.F 0.90, high power LED's having efficacy 120 lumens/watt, System efficacy 95lm/W and junction temperature < 70°C, with Ingress protection IP65, Driver surge protection 4KV, external Surge protection 5KV with optics distribution Type II medium, THD<10% at 110 Volts AC, driver efficiency 90%, CCT: 3000K - 5700K, minimum CRI 70, etc., complete.LUMINAIRE MAKE : AVNI / GOLDWYN / SURYA / MUELUX / KRIPA LIGHTS / / SYSKA / FORTUNE ART / CAPART / GREENLITES / R-LED / POLYCAB / INSTA POWER / GM / MILLION / JAQUAR.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
	a	20 W	1	No	4900.00
	b	30 W	1	No	6430.00
	c	43 / 45 W	1	No	8075.00
	d	60 / 65 W	1	No	10200.00
	e	72 W	1	No	12410.00
	f	90W	1	No	14025.00
	g	120 W	1	No	19550.00
	h	150 W	1	No	21675.00
	i	180 W	1	No	24225.00
	j	210 W	1	No	28320.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
459	ELEC-3.11.3	Supply and transportation of LED Street light Luminaire made of pressure die cast aluminum body with powder coated, having protective toughened glass (Silicon gasket ensures Optical & Electrical compartments are IP 66)protected, Supply Input voltage 120 - 270 V AC, P.F 0.90, high power LED's having efficacy 100 lumens/watt, System efficacy 85lm/W and junction temperature < 70°C, with Ingress protection IP65, Driver surge protection 4KV, external Surge protection 5KV with optics distribution Type II medium, THD<10% at 110 Volts AC, driver efficiency 90%, w, CCT: 3000K - 5700K, minimum CRI 70, etc., complete. LUMINAIRE MAKE : STANJO / COSMO / TRINIC / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
	a	20 W	1	No	4420.00
	b	30 W	1	No	5780.00
	c	43 / 45 W	1	No	7310.00
	d	60 / 65 W	1	No	9180.00
	e	90W	1	No	12620.00
	f	120 W	1	No	16150.00
	g	150 W	1	No	19550.00
	h	180 W	1	No	21670.00
	i	210 W	1	No	24225.00
460	ELEC-3.11.4	Supply and transportation of LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover,IP 65/66 (Silicon gasket ensures Optical & Electrical compartments are IP 66)protected, input voltage range of 100 to 270 volts AC,power factor 0.90, high power LED's having efficacy 130 lumens/watt and junction temperature < 85 degree centigrade of IP65 with optics, total harmonic distortion less than 10% at 110 Volts AC, driver efficiency 90% etc complete. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
	a	60 W	1	No	10620.00
	b	90 W	1	No	14870.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	c	120 W	1	No	19970.00
461	ELEC-3.11.5	Supply and transportation of LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover, IP 65/66 (Silicon gasket ensures Optical & Electrical compartments are IP 66)protected, input voltage range of 100 to 270 volts AC,power factor 0.90, high power LED's having efficacy 120 lumens/watt and junction temperature < 85 degree centigrade of IP65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency 90% etc complete. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / MUELUX / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
	a	60 W	1	No	8920.00
	b	90 W	1	No	13170.00
	c	120 W	1	No	16570.00
	3.12	LED DRIVERS			
462	ELEC-3.12.1	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 6 / 9 W LED down lighter with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	250.00
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	235.00
463	ELEC-3.12.2	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 12 / 18 W LED down lighter with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	375.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	350.00
464	ELEC-3.12.3	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 36W, 2'x2' panel light with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	580.00
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	545.00
465	ELEC-3.12.4	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 40/45W, 2'x2' panel light with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	700.00
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	660.00
466	ELEC-3.12.5	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 15-30W, LED street light fitting with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	420.00
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	395.00
467	ELEC-3.12.6	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 45-80W, LED street light fitting with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	890.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	840.00
468	ELEC-3.12.7	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 90-180W, LED street light fitting with 2 Years Warranty.			
		LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL.	1	No	1700.00
		LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR.	1	No	1600.00
	3.13	INDUCTION LUMINARIES			
469	ELEC-3.13.1	Supply and Transportation of Induction Type street light luminaire of following capacities comprises of single piece die cast Aluminium body and IP65 protection including Induction lamp and ballast etc., Complete with 5 years warranty.			
		Makes : Crompton / Bajaj / Surya / LVD RAES / Billion Light / Fortune Art / Synergy Solutions / Tej-Kashyap.			
	a	80W	1	No	15800.00
	b	120W	1	No	17900.00
470	ELEC-3.13.2	Supply and Transportation of Induction Type Flood light luminaire of following capacities comprises of single piece die cast Aluminium body and IP65 protection of including Induction lamp and ballast etc., Complete with 5 years warranty.			
		Makes : Crompton / Bajaj / Surya / LVD RAES / Billion Light / Fortune Art / Synergy Solutions / Tej-Kashyap.			
	a	150W	1	No	20500.00
	b	200W	1	No	22000.00
	3.14	BALLASTS FOR INDUCTION LAMPS			
471	ELEC-3.14.1	Supply of 80W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	4400.00
472	ELEC-3.14.2	Supply of 120W ballasts for Induction Lamp.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	5200.00
473	ELEC-3.14.3	Supply of 150W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	5800.00
474	ELEC-3.14.4	Supply of 200W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	6400.00
		SECTION - 4			
	4.1	U.G. CABLES			
475	ELEC-4.1.1	Supply of 4 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I)			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	92.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	78.00
476	ELEC-4.1.2	Supply of 6 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	108.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	93.00
477	ELEC-4.1.3	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	129.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	112.00
478	ELEC-4.1.4	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	130.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	112.00
479	ELEC-4.1.5	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	147.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	128.00
480	ELEC-4.1.6	Supply of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	162.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	140.00
481	ELEC-4.1.7	Supply of 25 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	207.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	180.00
482	ELEC-4.1.8	Supply of 35 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	247.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	212.00
483	ELEC-4.1.9	Supply of 50 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	326.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	280.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
484	ELEC-4.1.10	Supply of 70 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	421.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	363.00
485	ELEC-4.1.11	Supply of 95 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	547.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	472.00
486	ELEC-4.1.12	Supply of 120 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	669.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1	Mtr	579.00
487	ELEC-4.1.13	Supply of 150 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	762.00
		Makes : RPG / Finolex / V-Guard / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	658.00
488	ELEC-4.1.14	Supply of 185 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	934.00
		Makes : RPG / V-Guard.	1	Mtr	806.00
489	ELEC-4.1.15	Supply of 240 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	1185.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : RPG / V-Guard.	1	Mtr	1023.00
490	ELEC-4.1.16	Supply of 300 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	1449.00
		Makes : RPG / V-Guard.	1	Mtr	1251.00
491	ELEC-4.1.17	Supply of 400 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1	Mtr	1815.00
		Makes : RPG / V-Guard.	1	Mtr	1568.00
	4.2	11 KV H.T. XLPE CABLES			
492	ELEC-4.2.1	Supply of 3 Core 11 KV 35 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	603.00
493	ELEC-4.2.2	Supply of 3 Core 11 KV 50 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	683.00
494	ELEC-4.2.3	Supply of 3 Core 11 KV 70 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	816.00
495	ELEC-4.2.4	Supply of 3 Core 11 KV 95 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	972.00
496	ELEC-4.2.5	Supply of 3 Core 11 KV 120 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	1104.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
497	ELEC-4.2.6	Supply of 3 Core 11 KV 150 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	1248.00
498	ELEC-4.2.7	Supply of 3 Core 11 KV 185 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	1475.00
499	ELEC-4.2.8	Supply of 3 Core 11 KV 240 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	1680.00
500	ELEC-4.2.9	Supply of 3 Core 11 KV 300 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments.			
		Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1	No	1900.00
	4.3	CABLE GLANDS			
501	ELEC-4.3.1	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 185Sqmm with brass washers complete.	1	No	327.00
502	ELEC-4.3.2	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 240Sqmm with brass washers complete.	1	No	491.00
503	ELEC-4.3.3	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 300Sqmm with brass washers complete.	1	No	578.00
504	ELEC-4.3.4	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 400Sqmm with brass washers complete.	1	No	654.00
505	ELEC-4.3.5	Supply of single compression brass cable glands for 4 core XLPE armoured cable up to 16.0 Sq.mm with brass washers complete.	1	No	94.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
506	ELEC-4.3.6	Supply of single compression brass cable glands for 3.5 core XLPE armoured cable from 25 Sqmm to 50.0 Sq.mm with brass washers complete.	1	No	138.00
507	ELEC-4.3.7	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable from 70 Sqmm to 150.0 Sq.mm with brass washers complete.	1	No	264.00
	4.4	LUGS			
508	ELEC-4.4.1	Supply of copper lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1	No	22.00
509	ELEC-4.4.2	Supply of copper lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1	No	30.00
510	ELEC-4.4.3	Supply of copper lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1	No	33.00
511	ELEC-4.4.4	Supply of copper lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1	No	40.00
512	ELEC-4.4.5	Supply of copper lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1	No	55.00
513	ELEC-4.4.6	Supply of copper lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1	No	65.00
514	ELEC-4.4.7	Supply of copper lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1	No	88.00
515	ELEC-4.4.8	Supply of copper lugs confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.	1	No	104.00
516	ELEC-4.4.9	Supply of copper lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1	No	149.00
517	ELEC-4.4.10	Supply of copper lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1	No	215.00
518	ELEC-4.4.11	Supply of copper lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1	No	284.00
519	ELEC-4.4.12	Supply of copper lugs confirming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1	No	418.00
520	ELEC-4.4.13	Supply of aluminium lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1	No	12.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
521	ELEC-4.4.14	Supply of aluminium lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1	No	14.00
522	ELEC-4.4.15	Supply of aluminium lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1	No	17.00
523	ELEC-4.4.16	Supply of aluminium lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1	No	20.00
524	ELEC-4.4.17	Supply of aluminium lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1	No	25.00
525	ELEC-4.4.18	Supply of aluminium lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1	No	27.00
526	ELEC-4.4.19	Supply of aluminium lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1	No	35.00
527	ELEC-4.4.20	Supply of aluminium lugs confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.	1	No	40.00
528	ELEC-4.4.21	Supply of aluminium lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1	No	46.00
529	ELEC-4.4.22	Supply of aluminium lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1	No	71.00
530	ELEC-4.4.23	Supply of aluminium lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1	No	92.00
531	ELEC-4.4.24	Supply of aluminium lugs confirming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1	No	119.00
	4.5	HEAT SHRINKABLE LT CABLE JOINTS			
532	ELEC-4.5.1	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 10 to 16 Sqmm with outer tubing seamless type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	1300.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
533	ELEC-4.5.2	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 25 to 50 Sqmm with outer tubing seamless type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	1545.00
534	ELEC-4.5.3	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 70 to 185 Sqmm with outer tubing seamless type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	2230.00
535	ELEC-4.5.4	Supply and erecting heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials and all labour charges etc., complete for 240 to 300 Sqmm with outer tubing seamless type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	4000.00
536	ELEC-4.5.5	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 400 Sqmm with outer tubing seamless type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	5425.00
	4.6	3 CORE 11 KV HT CABLE STRAIGHT THROUGH JOINTS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
537	ELEC-4.6.1	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 16 to 35Sqmm with outer tubing tubular type.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	15070.00
538	ELEC-4.6.2	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 50 to 95Sqmm with anti tracking material.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	18095.00
539	ELEC-4.6.3	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 120 to 185Sqmm with anti tracking material.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	23018.00
	4.7	HT END TERMINATION KITS			
540	ELEC-4.7.1	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 70-95 Sqmm with necessary materials etc., complete.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	8211.00
541	ELEC-4.7.2	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with necessary materials etc., complete.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	8321.00
542	ELEC-4.7.3	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 150-185 Sqmm with necessary materials etc., complete.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	8925.00
543	ELEC-4.7.4	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 240-300 Sqmm with necessary materials etc., complete.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	9500.00
544	ELEC-4.7.5	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 70-95 Sqmm with necessary materials etc., complete with anti tracking red colour material as per IEC / IS specs only.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	12452.00
545	ELEC-4.7.6	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with necessary materials etc., complete with anti tracking red colour material as per IEC / IS specs only.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	12562.00
545	ELEC-4.7.7	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 150-185 Sqmm with necessary materials etc., complete with anti tracking red colour material as per IEC / IS specs only.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	13750.00
546	ELEC-4.7.8	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 240-300 Sqmm with necessary materials etc., complete.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	14200.00
	4.8	DOUBLE WALLED CORRUGATED HDPE PIPE			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
547	ELEC-4.8.1	Supply and Transportation of Outer dia 50mm and Inner dia 38mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	97.00
548	ELEC-4.8.2	Supply and Transportation of Outer dia 63mm and Inner dia 51mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	124.00
549	ELEC-4.8.3	Supply and Transportation of Outer dia 78mm and Inner dia 63mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	152.00
550	ELEC-4.8.4	Supply and Transportation of Outer dia 90mm and Inner dia 76mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	163.00
551	ELEC-4.8.5	Supply and Transportation of Outer dia 120mm and Inner dia 103.50mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	254.00
552	ELEC-4.8.6	Supply and Transportation of Outer dia 160mm and Inner dia 136mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	376.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
553	ELEC-4.8.7	Supply and Transportation of Outer dia 180mm and Inner dia 152mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	494.00
554	ELEC-4.8.8	Supply and Transportation of Outer dia 200mm and Inner dia 170mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	576.00
	4.9	CABLE TRAYS			
555	ELEC-4.9.1	Supply and Installation of 600mm x 75mm x 2mm thick hot dip GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	1300.00
556	ELEC-4.9.2	Supply and Installation of 600mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	960.00
557	ELEC-4.9.3	Supply and Installation of 450mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	845.00
558	ELEC-4.9.4	Supply and Installation of 300mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	725.00
559	ELEC-4.9.5	Supply and Installation of 150mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
560	ELEC-4.9.6	Supply and Installation of 150mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	200.00
561	ELEC-4.9.7	Supply and Installation of 300mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	300.00
562	ELEC-4.9.8	Supply and Installation of 600mm x 75mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1	Mtr	550.00
		Note: Perforated cable trays provided without cover 30% may be deducted from above rates.			
		SECTION - 5			
	5.1	FANS			
563	ELEC-5.1.1	Supply of 48" (1200mm) Sweep ISI mark Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator.			
		Makes : Crompton / Bajaj Kassels 50 / Usha atom	1	No	1760.00
564	ELEC-5.1.2	Supply of 48" (1200mm) Sweep 5 Star rated Ceiling Fan without Regulator.			
		Makes : Crompton HS Decora / Bajaj Regal star / Havells Fusion 50 / Orient Summer Crown / Usha technix decorative	1	No	2220.00
565	ELEC-5.1.3	Supply of 56" (1400mm) Sweep Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator.			
		Makes : Crompton / Bajaj Kassels 50 / Usha atom	1	No	1840.00
566	ELEC-5.1.4	Supply of 56" (1400mm) Sweep 5 Star rated Ceiling Fan without Regulator.			
		Makes : Crompton / Bajaj Elegance Star / Usha / Havells.	1	No	2160.00
567	ELEC-5.1.5	Supply of 16" (400mm) Wall mounted Fan.			
		Makes : Crompton SDX Gold / Bajaj Elite / Havells Swing Premia gold / Usha / Orient Wall 43.	1	No	2352.00
568	ELEC-5.1.6	Supply of 16" (400mm) Pedestal Fan.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : Crompton SDX Gold / Bajaj Spectrum / Havells Swing Remote / Usha / Orient.	1	No	2714.00
569	ELEC-5.1.7	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators			
		Makes : Crompton / Havells Turbo Force / Orient / Almounard.	1	No	6000.00
570	ELEC-5.1.8	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators			
		Makes : Crompton / Havells Turbo Force / Almounard.	1	No	6600.00
571	ELEC-5.1.9	Supply of 12" (300mm) Cabin fan.			
		Makes : Crompton / Havells ciera / Orient AP12.	1	No	1550.00
572	ELEC-5.1.10	Supply of 12" (300mm) Light duty exhaust fan with wire guard etc complete			
		Makes : Crompton / Bajaj Bahar WG / Havells Ventil Air-DB / Orient hill air.	1	No	1350.00
573	ELEC-5.1.11	Supply of 9" (225mm), Light duty exhaust fan with double ball bearing and wire guard etc complete.			
		Makes : Crompton / Bajaj Bahar WG / Havells Ventil Air-DS / Orient hill air.	1	No	1265.00
574	ELEC-5.1.12	Supply of 12" (300mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark			
		Makes : Crompton / Almounard / Havells Turbo Force.	1	No	2645.00
575	ELEC-5.1.13	Supply of 15" (375mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark.			
		Makes : Crompton / Almounard / Havells Turbo Force	1	No	3220.00
576	ELEC-5.1.14	Supply of 18" (450mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark.			
		Makes : Crompton / Almounard / Havells Turbo Force	1	No	4100.00
	5.2	WATER HEATERS			
577	ELEC-5.2.1	Supply, Transportation and fixing of storage / Pressure type Vertical / Horizontal 230/250V single phase 2000watts ISI mark 5 Star rated water heater with SS tank and ABS plastic body of 15 Ltrs capacity to withstand up to 6.5 bar of water pressure including all standard accessories and dead weight pressure reducing valve on out let side, including cost of 2 Nos SS flexible braided pipe, testing and all labour charges			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		etc., complete.			
		Makes : Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / AO Smith	1	No	9300.00
578	ELEC-5.2.2	Supply, Transportation and fixing of storage / Pressure type Vertical / Horizontal 230/250V single phase 2000watts ISI mark 5 Star rated water heater with SS tank and ABS plastic body of 25 Ltrs capacity to withstand up to 6.5 bar of water pressure including all standard accessories and dead weight pressure reducing valve on out let side, including cost of 2 Nos SS flexible braided pipe, testing and all labour charges etc., complete.			
		Makes : Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / AO Smith	1	No	10900.00
	5.3	ACCESSORIES FOR WATER HEATERS			
579	ELEC-5.3.1	Heating element of 1.5 / 2.0 / 3.0 KW.	1	No	400.00
580	ELEC-5.3.2	Supply of thermostat with range 30 ^o to 90 ^o C.Adjustable and suitable for 25 to 50 Ltrs. Capacity.	1	No	275.00
581	ELEC-5.3.3	Supply of pressure release valve for water heater of 15 to 50 Ltrs.capacity.	1	No	275.00
582	ELEC-5.3.4	Flexible Nylon / PVC Metallic hose pipe	1	No	165.00
	5.4	STARTERS FOR MOTORS			
583	ELEC-5.4.1	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS encloser comprising of contactor with bi-metalic relay with necessary push buttons, etc., complete.			
		Makes: Siemens / Crompton / L&T / BCH.	1	No	780.00
584	ELEC-5.4.2	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil and overload protection with necessary materials, etc., complete suitable upto 7.5.HP.			
		Makes: Siemens / Crompton / L&T / BCH.	1	No	1450.00
585	ELEC-5.4.4	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil, overload protection and single phase preventor , etc., complete suitable upto 10.0.HP.			
		Makes: Siemens / Crompton / L&T / BCH.	1	No	2490.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	5.5	SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS			
586	ELEC-5.5.1	Supply and Transportation of 0.75HP 8 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	14700.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	14000.00
587	ELEC-5.5.2	Supply and Transportation of 1.00HP 10 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	16800.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	16000.00
588	ELEC-5.5.3	Supply and Transportation of 1.00HP 15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	17325.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	16500.00
589	ELEC-5.5.4	Supply and Transportation of 1.50HP 21 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	21000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	20000.00
590	ELEC-5.5.5	Supply and Transportation of 2.00HP 25 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	25200.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	24000.00
	5.6	THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
591	ELEC-5.6.1	Supply and Transportation of 3.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	31500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	28350.00
592	ELEC-5.6.2	Supply and Transportation of 5.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	35500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	319500.00
593	ELEC-5.6.3	Supply and Transportation of 5.00HP Star rated 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	39900.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	35910.00
594	ELEC-5.6.4	Supply and Transportation of 7.5.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	39300.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	35370.00
595	ELEC-5.6.5	Supply and Transportation of 7.5HP Star rated 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	43500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	39150.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
596	ELEC-5.6.6	Supply and Transportation of 7.5HP Star rated 20-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	44600.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	40140.00
597	ELEC-5.6.7	Supply and Transportation of 10.00HP, Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	46000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	41400.00
598	ELEC-5.6.8	Supply and Transportation of 10 HP 5 Star rated, 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	47500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	42750.00
599	ELEC-5.6.9	Supply and Transportation of 10 HP 5 Star rated, 20-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	54000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	48600.00
600	ELEC-5.6.10	Supply and Transportation of 12.5HP 5 Star rated 8-12 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	46000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	41400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
601	ELEC-5.6.11	Supply and Transportation of 12.5HP 5 Star rated 16-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	56000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	50400.00
602	ELEC-5.6.12	Supply and Transportation of 15HP 5 Star rated 8-12 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	60000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	54000.00
603	ELEC-5.6.13	Supply and Transportation of 12.5HP 5 Star rated 16-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	62000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	55800.00
	5.7	SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS.			
604	ELEC-5.7.1	Supply and Transportation of 1.00HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	11550.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	11000.00
605	ELEC-5.7.2	Supply and Transportation of 1.50HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	13125.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	12500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
606	ELEC-5.7.3	Supply and Transportation of 3.00HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	17850.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	17000.00
	5.8	THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS.			
607	ELEC-5.8.1	Supply and Transportation of 3.00HP Three phase open well ISI submersible motor pumpset.(65x50) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	17850.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	17000.00
608	ELEC-5.8.2	Supply and Transportation of 5.00HP Three phase open well ISI submersible motor pumpset.(75x65) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	22050.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	21000.00
609	ELEC-5.8.3	Supply and Transportation of 7.50HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	26250.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	25000.00
610	ELEC-5.8.4	Supply and Transportation of 10.00HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	33600.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	32000.00
	5.9	SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.			
611	ELEC-5.9.1	Supply and Transportation of 0.5HP Single phase, 2880 RPM 50 Hz ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	5145.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	4900.00
612	ELEC-5.9.2	Supply and Transportation of 1.0HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	7455.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	7100.00
613	ELEC-5.9.3	Supply and Transportation of 1.5HP Single phase ISI Mono block CI body motor pumpset (32x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	9975.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	9500.00
614	ELEC-5.9.4	Supply and Transportation of 1.02HP Single phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	12600.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	12000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
615	ELEC-5.9.5	Supply and Transportation of 2.00HP Three phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	14700.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	14000.00
616	ELEC-5.9.6	Supply and Transportation of 3.00HP Three phase ISI self priming Mono block IP44 motor pumpset (50x50mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	19950.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	19000.00
617	ELEC-5.9.7	Supply and Transportation of 5.00HP Three phase ISI self priming Mono block IP44 motor pumpset (80x80mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1	No	24150.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi / Falcon / Sterling.	1	No	23000.00
	5.10	CONTROL PANEL BOARD FOR MOTORS			
618	ELEC-5.10.1	Supply and Transportation of control panel for single phase submersible motors up to 3 HP @ 220V 50Hz operating range between 80 to 240V including supply and fixing of Direct - on - Line LTLK / SIEMENS / CROMPTON make Volt meter and Ammeter with starting and running capacitors assembled with ISI mark contactors and fitted with Legrand make ISI mark MCB etc., complete.	1	No	4800.00
	5.11	REPAIRS TO MOTORS AND REWINDING, BEARINGS			
619	ELEC-5.11.1	Bearing of approved make for electric motor single phase / 3 phase AC upto 1 HP of all types.	1	No	179.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
620	ELEC-5.11.2	Bearing of approved make for electric motor single phase / 3 phase AC upto 2 to 3 HP of all types.	1	No	231.00
621	ELEC-5.11.3	Bearing of approved make for electric motor single phase / 3 phase AC upto 5 to 7.5 HP of all types.	1	No	306.00
622	ELEC-5.11.4	Bearing of approved make for electric motor single phase / 3 phase AC upto 10 to 12.5 HP of all types.	1	No	319.00
623	ELEC-5.11.5	Bearing of approved make for electric motor single phase / 3 phase AC upto 15 to 20 HP of all types.	1	No	489.00
624	ELEC-5.11.6	Bearing of table / cabin / pedestal / ceiling / exhaust fan complete with alignment of shaft and tested.	1	No	84.00
625	ELEC-5.11.7	Bearing of bush / rubber / ring washers complete with alignment of shaft and tested.	1	No	40.00
626	ELEC-5.11.8	Capacitor of table / cabin / pedestal / ceiling / exhaust fan complete.	1	No	38.00
627	ELEC-5.11.9	EICHER model 11:10 with 100 H.P. direct injection 4 stroke engine with one spare wheel 3800 mm cabin high deck with jangla (full body) (4 wheeler) for generator	1	No	795069.00
	5.12	ACCESSORIES OF MOTORS			
628	ELEC-5.12.1	Supply, Transportation and fixing of suitable pump guard set (2Nos SS), Flanges set (2 Nos) to protect and safe guard the pump and Motor from vibrations while starting and switching of the pumpset.			
	a	OD 42mm	1	No	380.00
	b	OD 48mm	1	No	450.00
	c	OD 60mm	1	No	650.00
	d	OD 75mm	1	No	780.00
	e	OD 80mm	1	No	1000.00
629	ELEC-5.12.2	Supply, Transportation and fixing of seamless cast iron adopter assembly (Two Nos at bottom of the pipe to coupling to the pump set and the other at top end of the pipes) for installing the pump set with pipes including cost and conveyance of all materials, taxes etc., complete.			
	a	OD 42mm	1	No	1100.00
	b	OD 48mm	1	No	1300.00
	c	OD 60mm	1	No	1490.00
	d	OD 75mm	1	No	1600.00
	e	OD 80mm	1	No	2000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
630	ELEC-5.12.3	Supply, Transportation and fixing of following galvanised GI bends heavy duty with threaded at both ends for installing the pump set including cost and conveyance of all materials, taxes etc., complete.			
	a	50mm dia 90 degree bend with length of 20cm (Center to face)	1	No	175.00
	b	65mm dia 90 degree bend with length of 20cm (Center to face)	1	No	240.00
	c	80mm dia 90 degree bend with length of 20cm (Center to face)	1	No	300.00
631	ELEC-5.12.4	Supply, Transportation and fixing of following MS threaded Flanges 2 Nos with nuts and bolts including cost and conveyance of all materials, taxes etc., complete.			
	a	50mm dia MS flanges set (2 Nos) 150mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1	No	209.00
	b	65mm dia MS flanges set (2 Nos) 165mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1	No	350.00
	c	80mm dia MS flanges set (2 Nos) 175mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1	No	380.00
632	ELEC-5.12.5	Supply, Transportation and fixing of MS Clamp set with nuts and bolts.			
	a	50mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1	No	200.00
	b	65mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1	No	300.00
	c	80mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1	No	400.00
	d	150mm dia galvanised bore cover with bolts and nuts.	1	No	150.00
	e	150mm dia stainless steel bore cover with bolts and nuts.	1	No	300.00
	6.1	AIR CONDITIONERS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
633	ELEC-6.1.1	Supply of split AC unit with high wall mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units with 3.5 mts of copper piping, insulation kit and 4 mts of 3 core copper flexible chord , built-in stabilizer (Voltage range 160- 264 volts) and cordless remote control			
		1.5TR Split ACs			
	a	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above of makes Mitsubishi SRIC18CS-S6	1	No	42990.00
	b	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above of makes Daikin FTE-M or N Sereis / Carrier Novello / Blue Star 3HW18VB1 / Hitachi (Kazi+) / Voltas 183 PX-R.	1	No	39600.00
	c	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above of makes Mitsubishi SRK 20 CSS-S6	1	No	53490.00
	d	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32 / R-410A with COP not less than 3.6 w/w makes Daikin FTF50QRV16 or its equivalent model of Carrier / Blue Star 3HU34JCFU.	1	No	46990.00
		1.8TR-2.1TR Split ACs			
	e	1.8 / 2.0 TR 3 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-32 / R-22 with COP not less than 3.25 w/w makes Daikin FTC60QRV16 or its equivalent make of Carrier / Blue Star	1	No	50250.00
	f	2.0 TR 4 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 makes 'O' General.	1	No	56490.00
	g	2.0 TR 5 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 makes Carrier or equivalent in Blue Star / Voltas.	1	No	54500.00
	h	1.8 / 2.0 TR 4 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 / R-32 with COP not less than 3.4 w/w makes Daikin FTF60QRV16 or its equivalent of Mitsubishi	1	No	59990.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	6.2	INVERTER SPLIT AC UNITS (COOLING ONLY)			
634	ELEC-6.2.1	Supply of INVERTER Model Cool type split AC unit with high wall mounted Single Split indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing Heat cool dehumidifying air circulating and filtering with cooling and condensing units with 3.5 mts of copper piping, insulation kit and 4 mts of 4 core copper flexible chord , built-in stabilizer (Voltage range 160- 264 volts) and cordless remote control			
	a	1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410 makes O General model No. ASGA18JCC / Toshiba Model No. RAS-18N3KCV-IN	1	No	53550.00
	b	1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410 / R-32 with COP not less than 3.8 w/w makes 'Daikin Model No. FTKM50QRV16 or its equivalent of Mitsubishi	1	No	58990.00
	c	1.8 TR capable of delivering 21600 BTU/hr and above with operating on refrigerant R-410 / R-32 with COP not less than 3.6 w/w makes Daikin FTKM60QRV16 or its equivalent of Thosibha	1	No	65910.00
	d	2.0 TR capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410 makes 'O' General Model No. ASGA24JCC / Blue Star Model No. HNHW22CBF	1	No	69295.00
	6.3	CASSETTE TYPE AC UNITS			
635	ELEC-6.3.1	Supply of Cassette type AC unit with ceiling mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with Wireless remote controller, but without refrigerent piping and cable.			
	a	Single Phase R-22 Makes: 2.2TR Daikin FHC28EXVI / R28CGXVI 2.0TR 'O' Genral AUG25AB	1	No	82000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	b	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-22 makes: 'O' Genral	1	No	130090.00
	c	3.5TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: 'O' General	1	No	137940.00
	d	3.3TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: Daikin FHC40EXVI / R40DGXY1	1	No	131800.00
	e	3.5TR Three Phase Makes: Carrier / Blue Star	1	No	125000.00
	f	4.1TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-22 Makes: Daikin FHC50EXV1 / R50DGXY1 / 'O' Genral	1	No	150970.00
	g	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-22 Makes: Carrier / Blue Star	1	No	115000.00
	h	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-410 Makes: Carrier / Blue Star.	1	No	116300.00
	i	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-410 Makes: Toshibha / O General (Inverter Technology)	1	No	155170.00
	j	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-410 Makes: Carrier / Blue Star	1	No	133000.00
	k	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-410 Makes: Toshibha / O General (Inverter Technology)	1	No	168190.00
	6.4	TOWER MODEL TYPE AC UNITS			
636	ELEC-6.4.1	Supply of Slim line / Tower Model/Verticool type split AC unit with indoor unit and floor mounted outdoor condensing unit Hermetically sealed Scroll compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with cordless remote control			
	a	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-22 Makes: Voltas	1	No	80000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	b	3.5TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: Blue Star	1	No	82500.00
	6.5	INVERTOR MODEL HEAT COOL SPLIT AC'S			
637	ELEC-6.5.1	Supply, transportation of 1.5 TR capacity (HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of capable of performing of cooling capacity 5.25KW and above and heating capacity 5.28 KW and above, Running current in cooling mode less than 7.19 Amps, & in Heating mode less than 6.53 Amps , Power Consumption in Cooling mode not more than 1635 W and in heating mode not more than 1490 W co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.54,dehumidifing Aircirculating and filtering with cooling and condensing unit duly insulated and 3 core copper flexible chord of required length etc with 2 years comprehensive warranty and 5 years warranty on compressor etc complete. Make: Diakin Model No FTYN50JXVI or its equivalent model of Toshiba / Mitsubishi / O General.	1	No	58380.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
638	ELEC-6.5.2	Supply, transportation of 1.8 / 2.0 TR capacity , (HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of cooling capacity 6.01KW and above and heating capacity 6.15 KW and above, Running current in cooling mode less than 8.26 Amps, & in Heating mode less than 7.99 Amps , Power Consumption in Cooling mode not more than 1870W and in heating mode not more than 1800 W, co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.40, dehumidifying Aircirculating and filtering with cooling and condensing unit duly insulated and 3 core copper flexible chord of required length etc with 2 years comprehensive warranty and 5 years warranty on compressor etc complete. Make: Daikin Model No FTYN60JXVI or its equivalent model of Toshiba / Mitsubishi / O General	1	No	68838.00
	6.6	REPAIRS TO AIR CONDITIONERS			
639	ELEC-6.6.1	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1	Set	1000.00
640	ELEC-6.6.2	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1.3/4" x 3/8" 2. 5/8" x 1/4" 3. 1/2" x 1/4"	1	Mtr	1000.00
641	ELEC-6.6.3	Supply of 1.0 / 1.5 Ton brand new Rotary type sealed compressor.	1	No	8150.00
642	ELEC-6.6.4	Supply of 2.0 Ton brand new Rotary type sealed compressor.	1	No	9250.00
643	ELEC-6.6.5	Multi speed Fan Motor suitable for 1.0 / 1.5 / 2.0 Ton Window A.C.Unit of makes Crompton / AU.	1	No	1590.00
644	ELEC-6.6.6	Fan motor capacitor 6 mfd by new capacitor for A.C machine of 1.0 1.5 / Ton Capacity.	1	No	156.00
645	ELEC-6.6.7	Thermostat switch suitable for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1	No	410.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
646	ELEC-6.6.8	Starting capacitor of 80 to 120 mfd. by new approved make capacitor suitable for compressor motor of 1.0 / 1.5 Ton A.C. Unit.	1	No	200.00
647	ELEC-6.6.9	Running capacitor of 36 mfd by new approved make capacitor suitable for compressor motor of 1.0 / 1.5 Ton A.C. Unit.	1	No	242.00
648	ELEC-6.6.10	Relay by approved make having pickup voltage 220 Volts and dropout voltage 120 Volts suitable for 1.0 / 1.50 Ton A.C. Unit.	1	No	225.00
649	ELEC-6.6.11	Filter and capillary tube including welding etc., complete for 1.0 / 1.5 / 2.0 Ton A.C. Unit.	1	No	485.00
650	ELEC-6.6.12	Air filter suitable for 1.50 Ton Window A.C. Unit P.V.C. / NYLON.	1	No	225.00
651	ELEC-6.6.13	Air filter suitable for 1.50 Ton Split A.C. Unit P.V.C. / NYLON.	1	No	475.00
652	ELEC-6.6.14	Rewiring the entire Window type 1.50 Ton A.C. unit with 2.5 Sq.mm Flexible copper cable and putting the same in working conditions.	1	No	325.00
653	ELEC-6.6.15	Complete servicing of 1.0 - 2.0 TR AC unit with cleaning the condensor cooling Coil etc., by blower and oiling the Fan Motor and Cleaning all parts and putting the machine in working condition.	1	No	400.00
654	ELEC-6.6.16	Fan blade for 1.0 / 1.5 Ton A.C. Machine.	1	No	560.00
655	ELEC-6.6.17	Grill of 1.0 / 1.5 ton A.C. Machine (for assembled Units).	1	No	427.00
656	ELEC-6.6.18	Grill of 1.0 / 1.5 ton A.C. Machine of branded units.	1	No	1700.00
657	ELEC-6.6.19	Rotary / Selector switch for window AC.	1	No	115.00
658	ELEC-6.6.20	Flushing the line, leak testing, leak stopping, vaccumming, dehydrating and charging the gas in the refrigeration system for 1.0/ 1.5 /2.0 Ton Window A.C. Unit.	1	No	1500.00
659	ELEC-6.6.21	Flushing the line, leak testing, leak stopping, vaccumming, dehydrating and charging the gas in the refrigeration system for 1.5 /2.0 Ton Split A.C. Unit.	1	No	2100.00
660	ELEC-6.6.22	Spray painting of Refrigerator using good quality paint after scraping the surface etc.	1	No	720.00
661	ELEC-6.6.23	Sealed compressor of 1/8 HP suitable for 165 to 185 Ltrs. Capacity Refrigerator.	1	No	3100.00
662	ELEC-6.6.24	Sealed compressor of 1/6 HP suitable for 285 / 310 Ltrs. Capacity Refrigerator.	1	No	3750.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
663	ELEC-6.6.25	Supply of fan motor by new 1/10 to 1/12 H.P 1250 RPM fan motor for Water Cooler of 80-150 Ltrs.	1	No	1590.00
664	ELEC-6.6.26	Gun metal Bush for fan motor.	1	No	125.00
665	ELEC-6.6.27	Resistance type regulator for ceiling fans 900/1200/1400mm sweep complete erected on existing board.	1	No	40.00
666	ELEC-6.6.28	Installation of Split Air Conditioners.	1	No	1500.00
667	ELEC-6.6.29	Removing of existing Split Air Conditioners without damaging to copper pipe.	1	No	400.00
668	ELEC-6.6.30	Installation of Cassette type Split Air Conditioners.	1	No	3000.00
669	ELEC-6.6.31	Installation of Tower type Split Air Conditioners.	1	No	2500.00
670	ELEC-6.6.32	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of Casseete AC unit.	1	Set	2000.00
671	ELEC-6.6.33	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1.7/8" x 1/2"	1	Mtr	1500.00
672	ELEC-6.6.34	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1. 1 1/8" x 5/8"	1	Mtr	1750.00
	6.7	EVAPORATIVE AIR COOLING SYSTEM			
673	ELEC-6.7.1	Supply of single phase evaporative air cooling unit with a capacity of 8000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, single phase 1.20 KW motor axial type fan with variable speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1	No	110000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
674	ELEC-6.7.2	Supply of single phase evaporative air cooling unit with a capacity of 11000 - 12000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, single phase 1.20 KW / 1.5 KW motor axial type fan with variable speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1	No	130000.00
675	ELEC-6.7.3	Supply of three phase evaporative air cooling unit with a capacity of 17000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 60W, three phase, 3.0 KW motor, axial type fan with 2 speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1	No	180000.00
676	ELEC-6.7.4	Supply, Fabrication and erection of GI ducting of 24 guage with necessary GI / MS supports. Makes : Tata / Zindal	1	Sft	81.90
677	ELEC-6.7.5	Supply and fixing of 40mm thick thermocole insulation of 16 kg density with GI mesh and 12mm thick cement mortar plastering for out door unit.	1	Sft	75.00
678	ELEC-6.7.6	Supply and fixing of 40mm thick glasswool of 24 kg density with aluminium foil insulation for indoor duct.	1	Sft	60.00
679	ELEC-6.7.7	Supply and fixing of aluminium powder coated grill with volume control dampers.	1	Sft	675.00
680	ELEC-6.7.8	Supply and fixing of angular iron frame with 2 coats of zincromat red oxide for installation of air cooling unit.	1	No	4800.00
681	ELEC-6.7.9	Installation and commissioning charges for air cooling unit.	1	No	4000.00
	6.8	STABILIZERS			
682	ELEC-6.8.1	Supply of 0.5 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	990.00
		Make : Keeline / Soft Line / Capri.	1	No	810.00
683	ELEC-6.8.2	Supply of 1.0 KVA Stabilizer.			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	1805.00
		Make : Keeline / Soft Line / Capri.	1	No	1615.00
684	ELEC-6.8.3	Supply of 3.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	2250.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Make : Keeline / Soft Line / Capri.	1	No	2070.00
685	ELEC-6.8.4	Supply of 4.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	3000.00
		Make : Keeline / Soft Line / Capri.	1	No	2850.00
686	ELEC-6.8.5	Supply of 5.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	3600.00
		Make : Keeline / Soft Line / Capri.	1	No	3425.00
	7.1	SWAGED POLES / OCTOGONAL POLES, GARDEN POSTS AND ACCESSORIES			
687	ELEC-7.1.1	Fabrication, supply and transportation of all sizes swaged poles up to site confirming to IS 2713 / 1980 specifications. The pole should be painted with primary coat of red oxide and black bituminous paint up to ground level with base plate, including cost of all materials etc., complete.(Rate per K. G)	1	Kg	71.00
688	ELEC-7.1.2	Fabrication and Supply of M.S. Poles for garden posts with 'B' class 60.25mm outer dia with base plate and suitable pole cap including cost and conveyance of all material including fixing of luminaire and labour charges etc., complete. (Rate per K. G)	1	Kg	65.00
689	ELEC-7.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1	Kg	65.00
	7.2	OCTOGONAL POLES			
690	ELEC-7.2.1	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.50 Mtrs height Pole having dimensions Bottom 130 mm,. Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	10647.00
		Makes : Surya / LAASMA	1	No	9147.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
691	ELEC-7.2.2	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs height Pole having dimensions Bottom 155 mm,. Top 70mm with 3mm thick, base plate 260 x 260 x 16mm and 4 Nos of M24 x 750 long 'J' bolts along with template.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	15722.00
		Makes : Surya / LAASMA	1	No	13507.00
692	ELEC-7.2.3	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 10 Mtrs height Pole having dimensions Bottom 175 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x16mm and 4 Nos of M24 x 750 long 'J' bolts along with template.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	17000.00
		Makes : Surya / LAASMA	1	No	14098.00
693	ELEC-7.2.4	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 12 mtrs height Pole having dimensions Bottom 200mm, Top 90mm with 4mm thick, base plate 320 x320 x20mm and 4 Nos of M24 x 850 long 'J' bolts along with template.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	25040.00
		Makes : Surya / LAASMA	1	No	22536.00
	7.3	BRACKETS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
694	ELEC-7.3.1	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1215.00
695	ELEC-7.3.2	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1604.00
696	ELEC-7.3.3	Fabrication, Transportation and supply of of 1.5mtrs sword type decorative Single arm bracket with dooms complete with all accessories with MS galvanized 50mm dia Pipe.	1	No	3800.00
697	ELEC-7.3.4	Fabrication, Transportation and supply of 1.5mtrs decorative galvanized Single arm bracket with PU paint complete with all accessories with MS galvanized 50mm dia Pipe.	1	No	4500.00
698	ELEC-7.3.5	Fabrication, Transportation and supply of 1 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1500.00
699	ELEC-7.3.6	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	2700.00
700	ELEC-7.3.7	Fabrication, Transportation and supply of of 1.5mtrs sword type decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 50mm dia Pipe.	1	No	4950.00
701	ELEC-7.3.8	Fabrication, Transportation and supply of 1.5mtrs decorative galvanized double arm bracket with PU paint complete with all accessories with MS galvanized 50mm dia Pipe.	1	No	8500.00
	7.4	HIGH MAST POLES			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
702	ELEC-7.4.1	Fabrication, transportation and supply of 12 Mtrs Polygon High Mast with single section of 3mm thick of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 520mm dia 16mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity, suitable for 6 luminaires with GLS type aviation twin lamp.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	103354.00
		Makes : Surya / LAASMA	1	No	88790.00
703	ELEC-7.4.2	Fabrication, transportation and supply of 16 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick with GLS type aviation lamp of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 560mm dia 25mm thick with its accessories. Mast shall be in 2 sections and should be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	134879.00
		Makes : Surya / LAASMA	1	No	121391.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
704	ELEC-7.4.3	Fabrication, transportation and supply of 20 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick of Bottom 410mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 570mm dia 25mm thick with its accessories. Mast shall be in 2 sections and should be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	168256.00
		Makes : Surya / LAASMA	1	No	151430.00
	7.5	FEEDER PILLER BOX			
705	ELEC-7.5.1	Supply and fixing of suitable feeder piller box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 40A TP MCB, 6 Nos SP MCB's, din channel, 6 Sqmm 3 core copper cable for individual light control, contactor, connectors and provision for energy meter etc., complete for finished item of work.	1	No	28884.00
706	ELEC-7.5.2	Supply and fixing of suitable feeder piller box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 63A TP MCB, 8 Nos SP MCB's, din channel, 6 Sqmm 3 core copper cable for individual light control, connectors and provision for energy meter etc., complete for finished item of work.	1	No	30473.00
	7.6	ERRECTION OF HIGH MAST POLES			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
707	ELEC-7.6.1	Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs high mast and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1	No	28073.00
708	ELEC-7.6.2	Earth work excavation with a approximate quantity of 6.0 Cum for erection of 16 Mtrs high mast and refilling with a quantity of 0.65 Cum of PCC 1:4:8, 2.60 Cum M 20 grade concrete and (110 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1	No	35794.00
709	ELEC-7.6.3	Earth work excavation with a approximate quantity of 7.0 Cum for erection of 20 Mtrs high mast and refilling with a quantity of 0.75 Cum of PCC 1:4:8, 3.60 Cum M 20 grade concrete and (140 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1	No	45551.00
	7.7	CONICAL POLES			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
710	ELEC-7.7.1	Fabrication, transportation and supply of MS hot dip galvanized 9.0 Mtrs long Conical poles with 3mm thick HT steel plate with a bottom 173mm dia and top 75mm dia, base plate of size 275mmx275mmx16mm thick welded to bottom of pole, terminal box with door size of 500mmx100mm with all accessories connector and fuse base and a fixing arrangements for advertisements holdings, foundation bolts with washers and nuts 4 sets. including S&F of 1.0 mtrs C type decorative single arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	14580.00
		Makes : Surya / LAASMA	1	No	13122.00
711	ELEC-7.7.2	Fabrication, transportation and supply of MS hot dip galvanized 10.0 Mtrs long Conical poles with 3mm thick HT steel plate with a bottom 184mm dia and top 75mm dia, base plate of size 275mmx275mmx16mm thick welded to bottom of pole, terminal box with door size of 500mmx100mm with all accessories connector and fuse base and a fixing arrangements for advertisements holdings, foundation bolts with washers and nuts 4 sets. including S&F of 1.5 mtrs C type decorative Double arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work.			
		Makes: Bajaj / Valmont / TRANSRAIL.	1	No	16740.00
		Makes : Surya / LAASMA	1	No	15066.00
	7.8	THERMO PLASTIC POLE BOXES			
712	ELEC-7.8.1	Supply of following sizes thermo plastic pole boxes IP 65 protection.			
		Make : Hensel / Sintex			
	a	300X150X170			1220.00
	b	300X300X170			1750.00
	c	300X450X170			2385.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	d	300X600X170			2830.00
	7.9	FOUNDATION AND ERRECTION CHARGES OF POLES			
713	ELEC-7.9.1	Erection charges for 7.50 Mts long Octagonal pole on bridge kerb portion (R.C.C). with 4 Nos 8" Anchor bolts/ M20xsuitable "J" type bolts etc duly drilling holes to RCC slab and with V.C.C. M.15 concrete for base concreting up to a height of 8" with necessary Reinforcement work etc. including cost and conveyance of all material and all labour charges etc. complete as directed by the department officers.	1	No	3200.00
714	ELEC-7.9.2	Foundation and erection charges with special T&P, for 7.50 Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtrx0.45Mtrsx1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1	No	4500.00
715	ELEC-7.9.3	Foundation and erection charges with special T&P, for 9.00Mtrs / 10Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.60Mtrx0.60Mtrsx1.40 Mtr size M20 cc work vibrated concreting mixing with necessary steel (15kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1	No	6000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
716	ELEC-7.9.4	Foundation and erection charges with special T&P, for 12Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtrx0.67Mtrsx1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1	No	7500.00
	7.10	G R P POLES			
717	ELEC-7.10.1	Supply and transportation of following glass reinforced polymer (GRP) composite type Conical pole with single arm bracket of length 1Mtr and internal junction box including labour charges etc., complete. Makes: Bajaj / Kemrock / Sumip.			
	a	3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	8908.00
	b	4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	11168.00
	c	6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	14275.00
	d	8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	18795.00
	e	10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	27268.00
718	ELEC-7.10.2	Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete.			
		Makes : Bajaj / Kemrock / Sumip.			
	a	For 3.00 Mtrs Pole	1	No	1650.00
	b	For 4.00 Mtrs Pole	1	No	1650.00
	c	For 6.00 Mtrs Pole	1	No	1980.00
	d	For 8.00 Mtrs Pole	1	No	2310.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
	e	For 10.00 Mtrs Pole	1	No	5500.00
	7.11	CONTROL PANEL BOARD			
719	ELEC-7.11.1	Fabrication and erection of 14SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1	Sq Mtr	4340.00
720	ELEC-7.11.2	Fabrication and erection of 16 SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1	Sq Mtr	4030.00
721	ELEC-7.11.3	Fabrication and erection of 18SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1	Sq Mtr	3565.00
	7.12	METERING EQUIPMENT			
722	ELEC-7.12.1	Supply and erection of 0-415V volt Digital meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	2500.00
723	ELEC-7.12.2	Supply and erection of 0-415V volt Analog meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	450.00
724	ELEC-7.12.3	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Digital Ammeter of size 96x96mm on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	2500.00
725	ELEC-7.12.4	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Analog Ammeter of size 96x96mm on existing box / panel board including connections etc., complete.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	450.00
726	ELEC-7.12.5	Supply and erection of Digital frequency meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	4556.00
727	ELEC-7.12.6	Supply and erection of Digital power factor meter, 3 phase, 4 wire balanced or unbalanced load 5A, 415V of size 96x96mm on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	2700.00
728	ELEC-7.12.7	Supply and erection of L.T. 3phase Digital multifunction energy meter with 3 lines LCD display for measuring all the parameters (voltage / Current / Power / frequency / power factor / kw / kwh / KVAR/ KVARH/) on existing box panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1	No	10023.00
729	ELEC-7.12.8	Supply and erection of selector switch for voltmeter / Ammeter on the existing box / panel including connections etc., complete.			
		Makes : L&T / C&S / SALZAR / HPL MAKE.	1	No	175.00
730	ELEC-7.12.9	Supply and erection of LED indicator lamps on the existing box / panel board.			
		Makes : L&T / C&S / SALZAR / HPL MAKE.	1	No	135.00
731	ELEC-7.12.10	Supply and erection of LT current transformer with bar primary 100/5A to 1000 / 5A ratio in the existing box / panel including connections etc., complete.			
		MAKE : KAPPA	1	No	450.00
732	ELEC-7.12.11	Supply and fixing of single phase Electronic energy Meter,240V AC,50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board.			
		Makes : CONZERVE / ELMEASURE / MECO / HPL / HAVELLS.	1	No	1050.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
733	ELEC-7.12.12	Supply and fixing of three phase Electronic energy Meter, 415V AC,50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board.			
		Makes : CONZERVE / ELMEASURE / MECO / HPL / HAVELLS.	1	No	3037.00
734	ELEC-7.12.13	Supply and fixing of 8 Stage APFC Relay with connection etc complete.			
		Makes : L&T / Siemens / EPCOS / Schneider / Elmeasure	1	No	13600.00
735	ELEC-7.12.14	Supply and fixing of 14 Stage APFC Relay with connection etc complete.			
		Makes : L&T / Siemens / EPCOS / Schneider / Elmeasure	1	No	16900.00
	7.13	SUB STATION EQUIPMENT			
736	ELEC-7.13.1	Carryout routine maintenance, servicing and testing of 630A to 1000A L.T.ACB by cleaning fixed contacts, moving contacts and arcchutes including servicing and putting the ACB in perfect working condition after detting all relay and ON, OFF mechanism etc done with only manufacturing companies	1	No	4000.00
737	ELEC-7.13.2	Carryout routine maintenance and servicing of LT.Cubical pannel board having approximately 15 to 22 Nos of switches cleaning with power brower and servicing the contacts, tightning the connection of incoming and outgoing cables, and clicking the operating machanism for smooth functioning of switches and putting them in smooth working condition.	1	No	2500.00
738	ELEC-7.13.3	Routine maintenance of transformer in operation covering insulation resistance oil, break down strength. Reconditioning / replacement of silicazel, cleaning of transformer and topping upto oil level if required (extra cost will be paid for oil).	1	No	4350.00
739	ELEC-7.13.4	Testing of Transformer oil for dielectric breakdown strength.	1	No	500.00
740	ELEC-7.13.5	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete.- Upto 315 KVA	1	No	2500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
741	ELEC-7.13.6	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete. -500 / 1000 KVA	1	No	3500.00
742	ELEC-7.13.7	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -Upto 315 KVA	1	No	750.00
743	ELEC-7.13.8	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -500 / 1000 KVA	1	No	1050.00
744	ELEC-7.13.9	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -Upto 315 KVA	1	No	300.00
745	ELEC-7.13.10	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -500 / 1000 KVA	1	No	550.00
746	ELEC-7.13.11	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. Upto 315 KVA	1	No	700.00
747	ELEC-7.13.12	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. 500 / 1000 KVA	1	No	1450.00
748	ELEC-7.13.13	Replacement the H/T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm- For copper coils	1	Kg	590.00
749	ELEC-7.13.14	Replacement the H/T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm - For aluminium coils	1	Kg	390.00
750	ELEC-7.13.15	Insulating HT / LT copper / aluminium coils for Transformers.	1	No	300.00
751	ELEC-7.13.16	Painting with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. -Upto 500 KVA	1	No	3000.00
752	ELEC-7.13.17	Painting with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. - 630 / 1000 KVA	1	No	4000.00
753	ELEC-7.13.18	Replacing H.T bushing for distribution Transformer by new one.	1	No	350.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
754	ELEC-7.13.19	Replacing H.T bushing metal parts for distribution Transformer by new one.	1	No	380.00
755	ELEC-7.13.20	Replacing L.T bushing for distribution Transformer by new one.- Upto 315 KVA	1	No	165.00
756	ELEC-7.13.21	Replacing L.T bushing for distribution Transformer by new one for.- 500 / 1000 KVA	1	No	175.00
757	ELEC-7.13.22	Replacing L.T bushing metal parts for distribution Transformer by new one for. - 100 KVA	1	No	300.00
758	ELEC-7.13.23	Replacing L.T bushing metal parts for distribution Transformer by new one for. - 250 / 315 KVA	1	No	500.00
759	ELEC-7.13.24	Replacing L.T bushing metal parts for distribution Transformer by new one for. - 500 KVA	1	No	1300.00
760	ELEC-7.13.25	Replacing L.T bushing metal parts for distribution Transformer by new one for. - 1000 KVA	1	No	2000.00
761	ELEC-7.13.26	Drying the repaired transformer with appropriate heat / air. -Upto 315 KVA	1	No	3000.00
762	ELEC-7.13.27	Drying the repaired transformer with appropriate heat / air. -500 / 1000KVA	1	No	4200.00
763	ELEC-7.13.28	Loading and Unloadng of transformer from site to Workshop or vice verse. -Upto 500 KVA	1	No	4500.00
764	ELEC-7.13.29	Loading and Unloadng of transformer from site to Workshop or vice verse. -630 / 1000 KVA	1	No	6800.00
765	ELEC-7.13.30	Transformer oil tested as per IS-335 - 1972 (per Ltr)	1	Ltr	120.00
766	ELEC-7.13.31	Filteration of transformer oil as per ISS specifications filters to die electric strength above 40 K. V at site. (per Ltr)	1	Ltr	8.00
767	ELEC-7.13.32	Filteration of transformer oil as per ISS specifications filters to die electric strength above 40 KV at workshop (per Ltr)	1	Ltr	5.00
768	ELEC-7.13.33	Supply of MPP type heavy duty capacitor of operating voltage not less than 480V and losses not more than 0.35W per KVAR and inrush current withstand capability 300 times the rated current.			
		Makes:L&T/Siemens/Schneider/Epcos.	1	KVAR	350.00
	7.14	TRANSFORMERS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
769	ELEC-7.14.1	Supply of 3 Phase, 50 Hz, oil immersed and naturally cooled, outdoor / Indoor type copper wound transformer designed and manufactured as per IS 2026-1977 and 1st filling of oil as per IS 335 of 1993, connected delta on primary side and Star on secondary side with additional neutral brought out on load side, 1100V / (433V / 415V) with HV tapping + or - 2.5% continuously rated for full load and temperature rise not exceeding 50°C in oil and 55°C rise by the resistance of the winding after continuous run on full load rating complete with the following standard mountings.		
		Makes: Kirloskar / PETE / Esennar / Voltamp.		
		1. Rated KVA :KVA 2. Service: Outdoor / Indoor 3. Mounting : Plinth. 4. Copper wound : Double. 5. Type : Core. 6. Cooling : ONAN 7. Temp . Rise : 55°C. 8. Vector Group: Dyn 11 9. Primary Connection : Delta 10. Primary Volts : 11000 11. Primary Frequency : 50 12. Primary Phases : 3 13. Primary wires: 3 14. Secondary connection : Star 15. Secondary Volts : 415 / 433V 16. Secondary phases : 3 17. Secondary wires: 4 18. Taps on primary winding for primary voltage variation : +7.5% to - 7.5% in steps of 2.5%,		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
		19. Terminal arrangement. a. HV: Bare Busings / Cable end box b. LV : Cable box 20. LV : One separate terminal for earthing. 20. No load losses (Watts):As per IS specification 21. Load losses (Watts):As per IS specification 22. Impedance(Z%) :As per IS specification		
		<u>21. Fittings & Accessories.</u> a. Rating and terminal marking plate b. Earthing terminals c. Lifting Lugs d. Conservator with drain plug. e. Oil level Indicator f. Dehydrating silicagel breather g. Air release device h. Drain cum filter wall i. Explosion vent with diaphragm j. Radiators (Attachable) k. Seperate neutral bushing l. Uni directional flat rollers.		
770	ELEC-7.14.2	Supply of 3 Phase, 50 Hz, Dry type, Indoor type copper wound transformer designed and manufactured as per IS 2026-1977 and IS 11171-1985,connected delta on primary side and Star on secondary side with additional neutral brought out on load side, 1100V / (433V / 415V) with HV tapping + or - 2.5% temperature rise by the resistance 90°C. complete with the following standard mountings.		
		Makes: Kirloskar / PETE / Esennar / Voltamp.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		1. Rated KVA :KVA (Cast Resin) 2. Service: Indoor 3. Mounting : Floor. 4. Copper wound : Double. 5. Type of cooling : ANAN. 6. Insulation Class : Class F 7. Temperature rise by resistance : 90°C 8. Vector Group: Dyn 11 9. Primary Connection : Delta 10. Primary Volts : 11000 11. Primry Frequency : 50 12. Primary Phases : 3 13. Primary wires: 3 14. Secondary connection : Star 15. Secondary Volts : 433V / 415V 16. Secondary phases : 3 17. Secondary wires: 4 18. Taps on primary winding for primary voltage variation : +5.0% to - 10.0% in steps of 2.5% through links.			
		19. <u>Terminal arrangement.</u> a. HV: Cable end box b. LV : Cable end box 20. No load losses (Watts): As per IS specifications 21. Load losses (Watts):As per IS specifications 22. Impedance(Z%) :As per IS specifications			
		<u>21. Fittings & Accessories.</u> a. Rating and terminal marking plate b. Earthing terminals c. Lifting Lugs d. Winding temperature Indicator e. Seperate neutral bushing f. Uni directional flat rollers.			
	7.15	L.T. LINE MATERIALS AND LIGHTENING PROTECTIVE SYSTEM			
771	ELEC-7.15.1	Supply and erecting approved make 11KV, 5KA metal oxide lightning arrestors suitable for 11 KV supply with necessary materials on existing cross arm.	1	No	1500.00
772	ELEC-7.15.2	Supply and erecting porcelain disc type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	600.00
773	ELEC-7.15.3	Supply and erecting porcelain pin type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	300.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
774	ELEC-7.15.4	Supply and erecting porcelain post type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	675.00
775	ELEC-7.15.5	Supply and erecting porcelain pin/shackle type insulator suitable for L. T.	1	No	90.00
776	ELEC-7.15.6	Approved made 11KV, 400A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1	No	7000.00
777	ELEC-7.15.7	Approved made 11KV, 200A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1	No	6100.00
778	ELEC-7.15.8	Approved made 11KV, 200A A.B switch (tilting) with all standard accessories etc., complete with cost and conveyance of all materials.	1	No	5900.00
779	ELEC-7.15.9	11KV, H.G fuse set including all standard accessories etc., complete with cost and conveyance of all materials.	1	No	4000.00
780	ELEC-7.15.10	Supply of 7/3.15 AAA C all Alluminium annealed conductor Rabbit.	1	Km	25013.00
781	ELEC-7.15.11	Supply of 7/2.50 AAA C all Alluminium annealed conductor Weasel.	1	Km	15383.00
782	ELEC-7.15.12	Supply of 9.1 Mtr PSCC Pole 280 Kg Working load.	1	No	3129.00
783	ELEC-7.15.13	Supply of 8.0 Mtr PSCC Pole 140 Kg Working load.	1	No	1665.00
784	ELEC-7.15.14	Supply of 175 x 85 mm / 150 x 75 mm RS Joist.	1	Kg	50.00
785	ELEC-7.15.15	Supply and installation of NIMBUS CPT-3/NLP 2200 / FOREND(ESE-EU) Advanced lighting protection with capturing head of 135 - 210mm diameter, 205 -580mm height and 4.60 - 4.940 kgs , and having Rod length 760mm, weight 1.795 kgs with stainless steel rod, working on the principle of (ESE) Early Streamer Emission technology, having a coverage radius of 79mts when mounted on 10 - 15 mts height of existing lattice tower giving level 1 protection and anticipation emission time of 60 micro seconds/72 micro seconds. The NIMBUS is manufactured according to standard NFC 17 102 and UNE 21186-96 including functional integrity etc Complete. Make : NIMBUS / FOREND / SCHIRTEC or equivalent	1	No	128000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
786	ELEC-7.15.16	Installation and commissioning of NIMBUS / FOREND or equivalent advanced lighting protection systems which includes 1. Laying of CC Bed 2. Installation of Lighting Rod 3. Laying of Down conductor 4. Installation of Counter 5. Installation of Earth Electrodes 6. Interconnection between the Electrodes 7. Termination of down conductor to earth bus etc complete	1	No	31200.00
787	ELEC-7.15.17	Supply of electro-Mechanical counter			
		Makes: CIRPROTEC / INDALAC / INGESCO / SCHIRTEC.	1	Pt	16000.00
788	ELEC-7.15.18	Providing earth electrode of low carbon steel rod of 17mm dia, coated with 250 microns thick copper 3mtr long with clamps and 2 bags of LORESCO ZEROLITE back fill compound etc complete with construction of brick masonry of size 300mm x 300mm chamber with cover for maintenance free earthing.	1	Pt	11500.00
789	ELEC-7.15.19	Supply of down conductor of 1x70sqmm single core PVC insulated unarmoured copper conductor cable of ISI mark.			
		Makes : Polycab / Havells / RPG / RR Kabel / KEI.	1	Mtr	410.00
	8.1	NET WORKING			
790	ELEC-8.1.1	Supply of 2 Pair, 0.5mm telephone copper wire.			
		Makes : Finolex / Delton / Surabi / Polycab	100	Mtrs	1010.00
791	ELEC-8.1.2	Supply of 5 Pair telephone copper wire.			
		Makes : Finolex / Delton / Surabi / Polycab	100	Mtrs	2800.00
792	ELEC-8.1.3	Supply of LAN Cable cat - 6 UTP cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	100	Mtrs	2300.00
793	ELEC-8.1.4	Supply of LAN Cable cat - 6 STP cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	100	Mtrs	4400.00
794	ELEC-8.1.5	Supply of Cat 6 RJ-45 information outlets including duel face plate.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	340.00
795	ELEC-8.1.6	Supply of 48 Port manageble switches			
		Makes : CISCO / Net Gear / HP / D link.	1	No	15600.00
796	ELEC-8.1.7	Supply of 24 Port manageble switches			
		Makes : CISCO / Net Gear / HP / D link.	1	No	6700.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
797	ELEC-8.1.8	Supply of 8 Port switches. Makes : CISCO / Net Gear / HP / D link.	1	No	1235.00
798	ELEC-8.1.9	Supply of access point. Makes : CISCO-WAP321 or its equivalent in Net Gear / HP / D link.	1	No	12500.00
799	ELEC-8.1.10	Supply of 7 feet length moulded patch cord. Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	220.00
800	ELEC-8.1.11	Supply of 3 feet length moulded patch cord. Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	200.00
801	ELEC-8.1.12	Supply of 24 port patch panels Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	6500.00
802	ELEC-8.1.13	Supply of 100 pair MDF loaded with 2/10 Modular Makes : Krone make or its equivalent.	1	No	3680.00
803	ELEC-8.1.14	Supply of 100 Pair raiser cable for telephone Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	387.00
804	ELEC-8.1.15	Supply of 10 Pair telephone Copper wire. Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	40.00
805	ELEC-8.1.16	Supply of 20 Pair telephone Copper wire . Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	76.00
806	ELEC-8.1.17	Supply of 50 Pair telephone Copper wire . Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	195.00
807	ELEC-8.1.18	Supply of 10 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1	No	650.00
808	ELEC-8.1.19	Supply of 20 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1	No	990.00
809	ELEC-8.1.20	Supply of 50 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1	No	2070.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
810	ELEC-8.1.21	Supply of 200 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1	No	7900.00
811	ELEC-8.1.22	Supply of 6U floor / Wall mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	4700.00
812	ELEC-8.1.23	Supply of 9U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	5580.00
813	ELEC-8.1.24	Supply of 12U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	6484.00
814	ELEC-8.1.25	Supply of 15U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	7348.00
815	ELEC-8.1.26	Supply of 17U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	10125.00
816	ELEC-8.1.27	Supply of 42U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	32000.00
817	ELEC-8.1.28	Supply of 6 Core (Indoor / Out door), Single mode armourd, Optic fibre cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	Mtr	75.00
818	ELEC-8.1.29	Supply of 12 Core (Indoor / Out door), Single mode armourd, Optic fibre cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	Mtr	105.00
819	ELEC-8.1.30	Supply of 6 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	7500.00
820	ELEC-8.1.31	Supply of 12 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	9500.00
821	ELEC-8.1.32	Supply of Subscriber connector (SC) to SC / LC patch card of 1 Mtr length.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	2000.00
822	ELEC-8.1.33	Supply of Pigtaills for fibre core connectivity.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	350.00
823	ELEC-8.1.34	Supply of Cat 6 RJ-45 information outlets including Single face plate.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	250.00
		RACEWAYS AND JUNCTION BOXES			
824	ELEC-8.1.35	Supply of 100mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	460.00
825	ELEC-8.1.36	Supply of 150mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	605.00
826	ELEC-8.1.37	Supply of 300mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	1035.00
827	ELEC-8.1.38	Supply of 100mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	435.00
828	ELEC-8.1.39	Supply of 150mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	560.00
829	ELEC-8.1.40	Supply of 300mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	1010.00
830	ELEC-8.1.41	Supply of 172mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1	No	340.00
831	ELEC-8.1.42	Supply of 222mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1	No	430.00
832	ELEC-8.1.43	Supply of 372mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1	No	830.00
	9.1	MISSILLANEOUS ITEMS			
833	ELEC-9.1.1	TW Seperators / Gutties	100	Nos	165.00
834	ELEC-9.1.2	Rawl Plugs	100	Nos	28.00
835	ELEC-9.1.3	U Nails	100	Nos	44.00
836	ELEC-9.1.4	Alluminium Link Clips	144	Nos	55.00
837	ELEC-9.1.5	50 mm G.I.Nut and Bolts.	1	Set	13.00
838	ELEC-9.1.6	63 to 100 mm G.I.Nut and Bolts.	1	Set	24.00
839	ELEC-9.1.7	50 mm 0 Gauge Nails	1	Doz	44.00
840	ELEC-9.1.8	63 to 100 mm 0 Gauge Nails	1	Doz	73.00
841	ELEC-9.1.9	Hard Coke	1	Kg	15.00
842	ELEC-9.1.10	Salt	1	Kg	10.00
843	ELEC-9.1.11	PVC Cleats 2 Way	100	Nos	330.00
844	ELEC-9.1.12	PVC Cleats 4 Way	100	Nos	440.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
845	ELEC-9.1.13	Binding Wire	1	Kg	61.00
846	ELEC-9.1.14	PVC / Cotton Insulation tape Role (10 Mtrs)	1	No	17.00
847	ELEC-9.1.15	C.I.Knob	1	No	25.00
848	ELEC-9.1.16	Stay tight set (Jum bracket 300 mm)	1	Pair	300.00
849	ELEC-9.1.17	Stay clamp with bolts and Nuts)	1	Set	200.00
850	ELEC-9.1.18	L.T.Guy insulator	1	No	75.00
851	ELEC-9.1.19	12 / 15 MS plain rod fan hook	1	No	30.00
852	ELEC-9.1.20	19 / 20 mm Steel tube fan down rod	1	Mtr	80.00
853	ELEC-9.1.21	Consealed box PVC / MS with hook for fan	1	No	100.00
854	ELEC-9.1.22	Coil Earthing	1	No	75.00
855	ELEC-9.1.23	Cable root Indicators	1	No	90.00
856	ELEC-9.1.24	40 mm x 40 mm x 6 mm angle iron with I bolt.	1	Set	250.00
857	ELEC-9.1.25	Mild Steel Items	1	Kg	61.00
858	ELEC-9.1.26	Acrylic Cover of size 4" x 7" for night lamps.	1	No	17.00
859	ELEC-9.1.27	TW / PVC Round Blocks	1	No	7.00
860	ELEC-9.1.28	G.I.Funnel with Mesh 1/2" x 4"	1	No	83.00
861	ELEC-9.1.29	Asbestos Sheet	1	Sqft	22.00
862	ELEC-9.1.30	First Aid box 18" x 12" x 8"	1	No	1100.00
863	ELEC-9.1.31	11 KV/22 KV Hand gloves	1	No	200.00
864	ELEC-9.1.32	Danger Notice Plates of size 250x200mm, shall comply with IS:2551-1982.	1	No	250.00
865	ELEC-9.1.33	Shock instrution chart in English / Hindi / Telugu duly framed with front glass.	1	No	500.00
866	ELEC-9.1.34	Copper plate / Copper strip (Per K.G)	1	Kg	605.00
867	ELEC-9.1.35	No. 8/10 SWG copper wire (per K.G)	1	Kg	605.00
868	ELEC-9.1.36	PVC Insulated copper winding wire of fine quality (per K. G)	1	Kg	726.00
869	ELEC-9.1.37	No. 14 SWG copper wire (per K. G)	1	Kg	605.00
870	ELEC-9.1.38	Copper winding wire (per K. G)	1	Kg	701.00
871	ELEC-9.1.39	G.I. Strip / Plate / Wire (per K. G)	1	Kg	68.00
872	ELEC-9.1.40	Alluminum Bus bars/Strips/accessories	1	Kg	234.00
873	ELEC-9.1.41	Alluminum winding wire	1	Kg	322.00
874	ELEC-9.1.42	6.2 Volt series bulb (25 Nos.)	25	Nos	91.00
875	ELEC-9.1.43	6.2 Volt series bulb with navar plate(25 Nos.)	25	Nos	97.00
876	ELEC-9.1.44	Supply of Rotating machine	1	No	16500.00
877	ELEC-9.1.45	Supply and fixing of 6mm thick MS Chekered plate.	1	Kg	67.00
878	ELEC-9.1.46	Supply and fixing of 6mm thick Alluminium Chekered plate.	1	Kg	266.00
879	ELEC-9.1.47	Copper old winding Wire scrap for 1 Kg	1	Kg	165.00
880	ELEC-9.1.48	Cement	1	Kg	6.60
881	ELEC-9.1.49	Hylam Sheet	1	sq.in	0.60

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
882	ELEC-9.1.50	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit.	1	Cum	220.00
883	ELEC-9.1.51	Cost of Sand	1	Cum	594.00
884	ELEC-9.1.52	Cost of Bricks	1000	Nos	3819.00
885	ELEC-9.1.53	25mm Nominal Bore light grade G.I.Pipe	1	Mtr	226.00
886	ELEC-9.1.54	25mm Nominal Bore Medium grade G.I.Pipe	1	Mtr	242.00
887	ELEC-9.1.55	40mm Nominal Bore light grade G.I.Pipe	1	Mtr	355.00
888	ELEC-9.1.56	40mm Nominal Bore Medium grade G.I.Pipe	1	Mtr	381.00
889	ELEC-9.1.57	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1	No	6.00
890	ELEC-9.1.58	G.I Nuts, Bolts an Washers each set	1	Set	11.00
891	ELEC-9.1.59	18" dia 2" thick hume pipe ring	1	No	220.00
892	ELEC-9.1.60	18" dia 3" hume pipe ring	1	No	275.00
893	ELEC-9.1.61	2" thick CC cover for hume pipe ring with handle.	1	No	121.00
894	ELEC-9.1.62	Supply of Saddle / Clamps suitable for fixing 2 Core 4 to 10 Sqmm Cable.	100	Nos	249.00
895	ELEC-9.1.63	Supply of Saddle / Clamps suitable for fixing 4 Core 4 & 6 Sqmm Cable.	100	Nos	249.00
896	ELEC-9.1.64	Supply of Saddle / Clamps suitable for fixing 4 Core 10 & 16 Sqmm Cable.	100	Nos	314.00
897	ELEC-9.1.65	Supply of Saddle / Clamps suitable for fixing 3.5 Core 25 & 35 Sqmm Cable.	100	Nos	382.00
898	ELEC-9.1.66	Supply of Saddle / Clamps suitable for fixing 3.5 Core 50 Sqmm Cable.	100	Nos	545.00
899	ELEC-9.1.67	Supply of Saddle / Clamps suitable for fixing 3.5 Core 70 & 95 Sqmm Cable.	100	Nos	605.00
900	ELEC-9.1.68	Supply of Saddle / Clamps suitable for fixing 3.5 Core 120 to 185 Sqmm Cable.	100	Nos	726.00
901	ELEC-9.1.69	Supply of Saddle / Clamps suitable for fixing 3.5 Core 240 & 300 Sqmm Cable.	100	Nos	908.00
902	ELEC-9.1.70	Supply of Saddle / Clamps suitable for fixing 3.5 Core 400 Sqmm Cable.	100	Nos	1210.00
903	ELEC-9.1.71	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1	No	88.00
904	ELEC-9.1.72	Supply and fixing of PVC synthetic elastomer electrically insulated mat with class A insulation conforming to IS: 15652-2006 having 2mm thickness upto 3.3KV	1	sqm	4200
905	ELEC-9.1.73	Supply and fixing of PVC synthetic elastomer electrically insulated mat with Class B insulation conforming to IS: 15652-2006 having 2.5mm thickness upto 11KV	1	sqm	4200

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
906	ELEC-9.1.74	Supply and fixing of PVC synthetic elastomer electrically insulated mat with ClassC insulation conforming to IS: 15652-2006 having 3mm thickness upto 33KV	1	sqm	4200
907	ELEC-9.1.75	Supply of round bottom G.I sheet bucket of 9 Ltrs. Capacity as per IS:2546 made out of 24 gauge GI sheet with extra handle at bottom duly painted inside and red out side with printed with FIRE Mark for stand and hook and filled with sand and arranged to existing stand or hook. (MR)	1	No	355.00
908	ELEC-9.1.76	Providing floor mounting stand for keeping 4No of fire bucket 1500mm length, 900mm height made out of 40x40x6mm angle iron welded with 4 hooks and duly painted with one coat of red lead and two coats of enamel paint.	1	No	1800.00
	10.1	WIRELESS FIRE ALARAM SYSTEM			
909	ELEC-10.1.1	Supply and fixing of wireless smoke detection control panel of 28 wireless zones, 2 Hard wired Zones, Tamper Alert, Pass code protected, RF jamming recognition, diagnostic feature for RF signal strength between panel and each detector, vent reporting using PSTN telephone line, dialing upto 4 telephone numbers, event reporting as per users choice, LCD screen display, two way voice interaction, battery backup stand by time up to 12 hrs Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Visonic / Honeywell	1	No	40000.00
910	ELEC-10.1.2	Supply and fixing of Wireless Repeater.The wireless repeater extends the communication range of detection by relaying data between receiver and remote wireless transmitter Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Visonic / Honeywell	1	No	9400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
911	ELEC-10.1.3	Supply and fixing of Wireless Siren Strobe external wireless siren - a fully supervised power code outdoor (IP55) wireless Siren and strobe light. Designed for external installation. Wire - Free connection between control panel and siren. Convenient rapid no- mess installation. Separate fire alarm signals, 98db Piezo siren and high power strobe light. Weather resistant, IP55, 2-way communication for local and remote diagnostics. Plug-in power supply, NIMH rechargeable back-up power battery, transmits status, tamper, low- battery, supervisory and AC loss messages to the control panel, Tri- State tamper switch identifies screw manipulation removal of cover or playing from the wall Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Visonic / Honeywell	1	No	13200.00
912	ELEC-10.1.4	Supply and fixing of wireless Fully Supervised Smoke Detector, Photoelectric detection technology for superior detection sensitivity , sound and transmitted for smoke, tamper and low battery, works on power code protocol, easy programming and enrolling to the control panel, long life 9 volt alkaline or lithium battery Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Visonic / Honeywell	1	No	6500.00
	10.2	ADDRESSABLE - FIRE ALARM SYSTEM			
913	ELEC-10.2.1	Supply, Installation, testing and commissioning of wall mounting 10 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 10 loop Micro			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	620000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	580000.00
914	ELEC-10.2.2	Supply, Installation, testing and commissioning of wall mounting 8 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 8 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	450000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	410000.00
915	ELEC-10.2.3	Supply, Installation, testing and commissioning of wall mounting 6 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 6 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes: Notifier / Edwards	1	No	415000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	370000.00
916	ELEC-10.2.4	Supply, Installation, testing and commissioning of wall mounting 4 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 4 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	280000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	250000.00
917	ELEC-10.2.5	Supply, Installation, testing and commissioning of wall mounting 2 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 2 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	235000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	210000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
918	ELEC-10.2.6	Supply, Installation, testing and commissioning of wall mounting 1 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 1 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	200000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	190000.00
919	ELEC-10.2.7	Supply, Installation, testing and commissioning of intellegent analogue addressable Repeater panel including the cost of mounting accessories complete as per specification as required.			
		Makes: Notifier / Edwards	1	No	118750.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	100000.00
920	ELEC-10.2.8	Supply and fixing of addressable wall mounting strobes cum hooters including the cost of mounting accessories complete as per specifications and as required including testing and commissioning.			
		Makes: Notifier / Edwards	1	No	5770.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	4700.00
921	ELEC-10.2.9	Supply and installation of addressable analogue manual call point with resetable flexible element to initiate alaram including the cost of mounting accessories etc. complete.			
		Makes: Notifier / Edwards	1	No	5900.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	5300.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
922	ELEC-10.2.10	Supply and instillation of intallegent analogue addressable photo electric smoke detector including cost of base plate etc., complete as per specification with required fittings and accessories.			
		Makes: Notifier / Edwards	1	No	5800.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	5100.00
923	ELEC-10.2.11	Supply and installation of intallegent analogue addressable rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required.			
		Makes: Notifier / Edwards	1	No	5059.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	4560.00
924	ELEC-10.2.12	Supply and installation of intelligent analogue addressable multi criterion detectors below false ceiling/on ceiling including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required.			
		Makes: Notifier / Edwards	1	No	6175.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	5558.00
925	ELEC-10.2.13	Supply and Installation of Intalligent analogue addressable Control Modules including the cost of mounting accessories complete as per specifications and as required.			
		Makes: Notifier / Edwards	1	No	5225.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	4655.00
926	ELEC-10.2.14	Supply and Installation of Intalligent analogue addressable monitor modules including the cost of mounting accessories complete as per specifications and as required.			
		Makes: Notifier / Edwards	1	No	5225.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	4655.00
927	ELEC-10.2.15	Supply and Installation of Intalligent analogue addressable fault isolator modules including the cost of mounting accessories complete as per specifications and complete as required.			
		Makes: Notifier / Edwards	1	No	4275.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	3800.00
	10.3	CONVENTIONAL - FIRE ALARM SYSTEM			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
928	ELEC-10.3.1	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 2 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	7500.00
929	ELEC-10.3.2	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 4 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	9900.00
930	ELEC-10.3.3	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 6 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	13750.00
931	ELEC-10.3.4	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 8 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	15950.00
932	ELEC-10.3.5	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 10 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	20350.00
933	ELEC-10.3.6	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 12 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	22550.00
934	ELEC-10.3.7	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 14 zone, 12V SMF batteries etc., complete with all standard accessories.			
		Makes: System Censor / Ravel / Pinnacle	1	No	27500.00
935	ELEC-10.3.8	Supply and installation of Repeater panel including the cost of mounting accessories complete as per specifications and as required.			
		Makes: System Censor / Ravel / Pinnacle	1	No	13750.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
936	ELEC-10.3.9	Supply and installation of dual tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required.	1	No	675.00
937	ELEC-10.3.10	Supply and installation of dust and vermin proof manual call point to initiate audio visual alarm including the cost of mounting accessories complete as per specifications and as required.	1	No	650.00
938	ELEC-10.3.11	Supply and installation of response indicators for above false ceiling detectors.	1	No	150.00
939	ELEC-10.3.12	Supply and installation of plug - in type multi criterion detectors including the cost of base plate. 75mm dia M.S. outlet box for fixing of the detector base. Mounting accessories etc., complete as per specifications as required.			
		Makes: System Censor / Ravel / Pinnacle	1	No	1800.00
940	ELEC-10.3.13	Supply and installation of plug -in type photo electric smoke detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base. Mounting accessories etc complete and as per specifications and as required.			
		Makes: System Censor / Ravel / Pinnacle	1	No	1500.00
941	ELEC-10.3.14	Supply and installation of plug -in type rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required.			
		Makes: System Censor / Ravel / Pinnacle	1	No	1450.00
	10.4	POWDER BASED FIRE EXTINGUISHERS			
942	ELEC-10.4.1	Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 9 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Minimax	1	No	9180.00
		Makes : Safex / Kenex / Bharat / Reliance	1	No	5900.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
943	ELEC-10.4.2	Supply and fixing of ABC Powder MAP 4 Kg Fire extinguisher Mono ammonium phosphate power 90, stored pressure type, IS 15683 : 2006, pressure gauge gross wt. 6.9 kg, empty wt.2.9 kg, can Ht.440mm, Diameter 140mm, Discharge time less than 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fires, A- rating 3A, B-rating 34B, can construction: Deep drawn Co2 mig welding, wall construction: Forging & Machining, internal coating of can: Epoxy power coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leakage detection tested, ISI & CE approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Minimax	1	No	6370.00
		Makes : Safex / Kenex / Bharat / Reliance	1	No	4100.00
944	ELEC-10.4.3	Supply and fixing of ABC Powder MAP 2 Kg Fire extinguisher Mono ammonium phosphate power 90, stored pressure type, IS 15683 : 2006, pressure gauge gross wt. 3.6 kg, empty wt.1.6 kg, can Ht.344mm, Diameter 108mm, Discharge time less than 8 sec, controllable discharge mechanism, range min. 2 mts applicable on classes A,B, C electrically started fires, A- rating 2A, B-rating 21B, can construction: Deep drawn Co2 mig welding, wall construction: Forging & Machining, internal coating of can: Epoxy power coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leakage detection tested, insta - alert, ISI & CE approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Minimax	1	No	4500.00
		Makes : Safex / Kenex / Bharat / Reliance	1	No	2900.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
945	ELEC-10.4.4	Supply and fixing of Ceiling Mounted ABC MAP 90, 5 Kg stored pressure type, pressure gauge, Gross Wt.7.7 kg, Empty Wt.2.7 kg, Can Ht264mm , Dia 240mm, Discharge time : less than 8 sec, IS 15683 : 2006 Auto discharge mechanism on temperature rise, Applicable on A,B,C, & Electrically - started fires, Can Construction: Forging & Machining, Internal coating of Can: Epoxy Power coating, External Coating of Can: Epoxy Polyster powder coating, sheet metal thickness:1.60mm , Helium leakage detection tested, ISI approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Minimax	1	No	7200.00
		Makes : Safex / Kenex / Bharat / Reliance	1	No	5600.00
	10.5	CLEAN AGENT FIRE EXTINGUISHERS			
946	ELEC-10.5.1	Supply and fixing of 2 Kg Fire extinguisher Clean Agent HCFC 123, Stored pressure type, IS 15683 : 2006 pressure guage, gross weight 3.7Kg empty weight 1.7 Kg, can weight 344mm, Diameter 108mm, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating 1A, B rating 21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyster powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, ISI & CE approved, 5 Years warranty.			
		Makes : Cease Fire / Minimax	1	No	12960.00
		Makes : Safex / Kenex / Bharat.	1	No	11000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
947	ELEC-10.5.2	Supply and fixing of 4 Kg Fire extinguisher Clean Agent HCFC 123, Stored pressure type, IS 15683 : 2006, pressure guage, gross weight 6.9Kg empty weight 2.9 Kg, can hight 440mm, Diameter 140mm, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating 1A, B rating 21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyster powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, ISI & CE approved 5 Years warranty.			
		Makes : Cease Fire / Minimax	1	No	23490.00
		Makes : Safex / Kenex / Bharat.	1	No	21000.00
948	ELEC-10.5.3	Supply & Fixing of 4.5Kg, CO2 Type Fire Extinguisher, Trolley Mounted, Easy Weight Management, Used Unused Mechanism, Squeeze Grip, Gross Weight 19.1 Kg, Empty Weight 14.6 Kg, Can Height 860MM, Diameter 140MM, Discharge time minimum 13 Secs, Controllable discharge mechanism, Range minimum 2 Meters, Applicable on Class B,C & electrically started Fire, B Rating 13B, Can Construction : Hot Spinning / Forging, Valve Construction : Forging & Machining, Internal Coating of Can : Not Applicable, External Coating of Can : Spray Painting, Sheet metal thickness : 4.5MM, ISI & CE Approved, 2 Year Warranty Including transportation, all taxes and all labour charges etc complete.			
		Makes : Cease Fire / Minimax	1	No	10900.00
		Makes : Safex / Kenex / Bharat / Reliance	1	No	8200.00
949	ELEC-10.5.4	Supply and fixing of Escape signage boards in Rigid Photo luminecent based glow in Dark rigid sheet with high intensity luminous properties with specifcaiton of Cease Fire or its equivalent make Model-1ES01	1	No	1300.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
950	ELEC-10.5.5	Supply and fixing of Cease fire or its equivalent Escape gear Mild Steel box size 425mmx360mmx140mm Epoxy powder coated to protect it from Weathering , smoke hood tested to Eupropean Standard EN 403 1993-S known to reduce Carbon Monoxide, propend(acrloein), hydrogen chloride, hydrogen Cyanide and Solid and liquid toxic particles to manageable level for atleast 15 minutes shall with stand tepeartures upto 80 degrees single use only Fire Blanket size 1.2m x1.8m used to cover any vessel containing used to Extinguish a clothing fire wrap blanket around the victim.	1	No	15010.00
951	ELEC-10.5.6	Supply and fixing of 4Nos of 9 Ltrs capacity round bottom bucket with sand, duly painted with enamel white inside & red out side and letter FIRE with black colour.	1	Set	1200.00
952	ELEC-10.5.7	Supply anmd fixing of Fire bucket stand fabricated by M.S. angles to install for two numbers of buckets as per local fire officers standards.	1	Set	1000.00
	10.6	WATER MIST FIRE EXTINGUISHERS			
953	ELEC-10.6.1	Supply & Fixing of Water Mist 9 Ltr. Fire Extinguisher : Gross Weight – 23.9 kg., Weight of the empty firefighting system without compressed air bottle and bottle valve- 14.9 kg., Can Height – 560 MM,Diameter – 204MM, Weight of the gun- 1.9kg, Nominal charge- 9 Ltr., Recoil – approx. 10N, Extinguishing Media Flow – 0.23 L/ sec, Water Discharge Hose – 13 MM, Discharge time minimum 25 Secs, Range minimum 10 Meters, Compressed Air to Gun – 10 MM, Applicable on Class A, B, C & Electrically started Fires, ARating- 27A, BRating-233B, Compressed air bottle (volume/pressure) - 2L / 300bar, Operating pressure(dynamic)-approx 5.0 bar, Lancing distance of the extinguishing agent-in spray Approx. 7.0 m, in jet mode Approx, 12.0 m. Operation time- approx 40 sec, Extinguishing enhancement agent- Foam Additive, CE and ERDA approved, Sheet Metal Thickness – 1.5MM, 1 Year Warranty.			
		Makes: Cease Fire or Equivalent	1	No	183200.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		AEROSOL GENERATION SYSTEM (AGS) AND FIRE EXTINGUISHERS			
954	ELEC-10.6.2	Supply, installation, testing and commissioning of Addressable Control panel for AGS system with monitoring system and provision of interactive TFT color Graphic Display with touch Screen Control and shall have built in feature of Mimic software which works on a Android based technology and a facility to show the layout location of the installation area and prescribed location of the devices during the fire accident. shall have minimum two level password protection. Shall have alert indication for missing device, contaminated device. The control panel shall have real-time clock (RTC) indicate time, date, month & year and along with a provision of Ethernet based circuit as if required.	1	No	46550.00
		Makes : SALAMANDRA / SEAARA / AGS			
955	ELEC-10.6.3	Supply, installation, testing and commissioning of Addressable Multi sensor with integrated smoke sensing chamber and heat sensing element. Addressable smoke detector shall operate on light scatter principle. The build-up of dirt or similar contamination on the sensing chamber shall be continually monitored by control panel, when it exceeds predetermined level; the panel has to indicate that the detector is in need of servicing. The detector shall have an integral microprocessor capable of making alarm decision based on alarm level set. The Obs/ft should be 0.5 obs/ft. The detector shall blink when the detector is addressed and glow steady on alarm. The detector shall have provision to alter the sensitivity from the panel. The detector shall have electronic free base. The detector and base construction shall be made of polycarbonate plastic. The detector shall be capable of reading from the control panel, i.e. health of the detector, alarm level setting. Latching the detector, isolating the detector from the control panel shall be possible. The detector shall preferably have twin LED's for 360 viewing angle.	1	No	2375.00
		Makes : SALAMANDRA / SEAARA / AGS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
956	ELEC-10.6.4	Supply, installation, testing and commissioning of addressable Loop Powered Sounder with integral beacon within horn using high intensity LED technology. The sounder beacon shall work with loop power. No separate power supply with cable shall be used. The sounder beacon shall be addressable type. It shall have electronic addressing. No DIP/DIL switches are permitted for address setting in order to avoid unauthorized setting. The construction of the sounder beacon shall be made of polycarbonate plastic. The sounder beacon sound pressure level shall be 85 dB at 10ft.	1	No	2755.00
		Makes : SALAMANDRA / SEAARA / AGS			
957	ELEC-10.6.5	Supply, installation, testing and commissioning of addressable Control Module with built-in LED. The LED shall blink when it is addressed and it shall glow steady when it is actuated and it should have principle of working with NC/NO relay circuit. It should have a cross zoning facility with a inbuilt sounder. The control module shall have electronic addressing. The control contact rating shall be a minimum of 2 amps @ 24V DC (Resistive). The control module shall operate from SLC loop power. No external power/cable shall be used.	1	No	3135.00
		Makes : SALAMANDRA / SEAARA / AGS			
958	ELEC-10.6.6	Supply and installation of manually operated suppression system using Aerosol Generator System for all classes of fire with active substance of 3.3. Kg and does cooling effect with no re-ignition. The product with minimum life of 15 years and no maintenance. The discharge time should be 25 sec and has net weight of 4.6 kg and has a capacity to cover 60 m ³ and shall be confirmed to NFPA 2010 and has other national and international certificates.	1	No	70775.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
959	ELEC-10.6.7	Supply of Auto Detection and Suppression System using Aerosol Generator System with required fittings as per standard composition for all classes of fire, With a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 78 sec. The Generator with a net weight of 10 kg Active Substance of 3.25 kg. and has diameter 220mm and height 220mm The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc.	1	No	114000.00
		Makes : SALAMANDRA / SEAARA / AGS			
960	ELEC-10.6.8	Supply of Auto Detection and Suppression System using Dry Sprinkler Generator as per standard composition for all classes of fire, with a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 21 sec. The Generator has a net weight of 1.2 kg. Active Substance of 0.3 kg and has diameter 20mm and height 135mm. The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc.	1	No	38000.00
		Makes : SALAMANDRA / SEAARA / AGS			
961	ELEC-10.6.9	Supply of Auto Detection and Suppression System using Aerosol Generator System as per standard composition with required fittings for all classes of fire, with a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 50 sec. The Generator has a net weight of 4.5 kg. Active Substance of 1.4 kg and has diameter 40mm and height 187mm. The Generator is suitable for Server Room,			66975.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Electrical Storage and technical appliances, important documents area & etc.			
		Makes : SALAMANDRA / SEAARA / AGS			
962	ELEC-10.6.10	Supply of Aerosol Heat Starter Sprinkler used for Auto Detection and Suppression System for Aerosol Generator System for all Class of Fire. The heat Starter Sprinkler has various starter capacity, which ranges from +50c to +163c. The starter can cover up to 18 m2. The product Min Life shall be 15 years. The output power from the Starter is 3v and current 0.6A and operates at a temperature range of - 50c to +80c. The Starter Sprinkler is suitable for Server Room, Electrical Storage and technical appliances, Important documents area etc.	1	No	8075.00
		Makes : SALAMANDRA / SEAARA / AGS			
	10.7	FIRE HYDRANT AND SPRINKLER SYSTEM			
963	ELEC-10.7.1	Supplying, installation, testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following complete in all respect as required	1	Set	354000.00
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr. head conforming to IS 1520			
		b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Pumps: Kirloskar / Mather&Platt.			
		Makes of Motors: Siemens/ ABB/ Kirloskar			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
964	ELEC-10.7.2	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	390000.00
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr. head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.		
		Makes of Pumps: Kirloskar / Mather&Platt.		
		Makes of Motors: Siemens/ ABB/ Kirloskar		
965	ELEC-10.7.3	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	446400.00
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr. head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Pumps: Kirloskar / Mather&Platt.			
		Makes of Motors: Siemens/ ABB/ Kirloskar			
966	ELEC-10.7.4	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	468000.00
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr head conforming to IS 1520			
		b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
967	ELEC-10.7.5	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	678000.00
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr head conforming to IS 1520			
		b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			
968	ELEC-10.7.6	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	762000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr head conforming to IS 1520			
		b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			
969	ELEC-10.7.7	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	268750.00
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 171 Cum/hr (2850 LPM) at total head 70 M at operating speed 2900 rpm. Pump duty as per TAC			
		b) 55 KW / 75 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Pumps: Kirloskar / Mather&Platt.			
		Makes of Motors: Siemens/ ABB/ Kirloskar			
970	ELEC-10.7.8	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	556250.00
		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 171 Cum/hr(2850 LPM) at a total head of 70 M when operated at 1800 rpm and pump duty as per TAC			
		b) Liquid cooled, 85 BHP at 1800 rpm, diesel engine (Radiator cooled) 12 Volts starting system with standard accessories			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			
971	ELEC-10.7.9	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	218750.00
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 137 Cum/hr (2280 LPM) at total head 70 mwc at operating speed 2900 rpm. Pump duty as per TAC			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		b) 45 KW / 60 HP, 3000 srpm, TEFC (IP55) Horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 225 M frame			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Pumps: Kirloskar / Mather&Platt.			
		Makes of Motors: Siemens/ ABB/ Kirloskar			
972	ELEC-10.7.10	Supplying, installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	443750.00
		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 137 Cum/hr(2280 LPM) at a total head of 70 M when operated at 2150 rpm and pump duty as per TAC			
		b) Liquid cooled, 68 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			
973	ELEC-10.7.11	Supplying, installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	161250.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 97 Cum/hr (1620 LPM) at total head 56 mwc at operating speed 2900 rpm. Pump duty as per TAC			
		b) 30 KW / 40 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Pumps: Kirloskar / Mather&Platt.			
		Makes of Motors: Siemens/ ABB/ Kirloskar			
974	ELEC-10.7.12	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1	Set	387500.00
		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 97 Cum/hr(1620 LPM) at a total head of 56 M when operated at 2150 rpm and pump duty as per TAC			
		b) Liquid cooled, 50 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes of Engines : Kirloskar / Cummins.			
		Makes of Pumps : Kirloskar / Mather&Platt			
975	ELEC-10.7.13	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for	1	Set	55000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
		automatic operation and consisting of following : complete in all respect as required		
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 56 Mtr head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.		
		Makes of Pumps : Kirloskar / Mather&Platt.		
		Makes of Motors : Siemens/ ABB/ Kirloskar		
976	ELEC-10.7.14	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	77860.00
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 70 Mtr head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
		Makes of Pumps : Kirloskar / Mather&Platt.		
		Makes of Motors : Siemens/ ABB/ Kirloskar		
977	ELEC-10.7.15	Supplying , installation , testing and commissioning of electric driven Terrace / Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	62450.00
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 45 Mtr head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.		
		Makes of Pumps : Kirloskar / Mather&Platt.		
		Makes of Motors : Siemens / ABB / Kirloskar		
978	ELEC-10.7.16	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	48400.00
		a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 45 Mtr head conforming to IS 1520		
		b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 9.3 KW / 12.5HP, 2 pole, TEFC, 415 V, 3ph motor		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes : Kirloskar			
979	ELEC-10.7.17	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1	Set	46245.00
		a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 750 lpm at 35 Mtr head conforming to IS 1520			
		b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 7.5 KW / 10 HP, 2 pole, TEFC, 415 V, 3ph motor			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes : Kirloskar			
980	ELEC-10.7.18	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1	Set	42542.00
		a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 450 lpm at 35 Mtr head conforming to IS 1520			
		b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 5 KW / 7.5 HP, 2 pole, TEFC, 415 V, 3ph motor			
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes : Kirloskar			
981	ELEC-10.7.19	Providing , laying, testing & Commissioning of following classes MS pipes conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc., complete.			
		Makes : Jindal / Hissar / Tata pipes			
		(a) 250 mm dia	1	Mtr	3245.00
		(b) 200 mm dia 'C' Class	1	Mtr	3210.00
		(c) 200 mm dia 'B' Class	1	Mtr	2800.00
		(d) 150 mm dia 'C' Class	1	Mtr	2400.00
		(e) 150 mm dia 'B' Class	1	Mtr	1930.00
		(f) 100 mm dia 'C' Class	1	Mtr	1515.00
		(g) 100 mm dia 'B' Class	1	Mtr	1275.00
		(h) 80 mm dia 'C' Class	1	Mtr	1000.00
		(i) 80 mm dia 'B' Class	1	Mtr	895.00
		(j) 65 mm dia 'C' Class	1	Mtr	750.00
		(k) 65 mm dia 'B' Class	1	Mtr	675.00
		(l) 50 mm dia 'C' Class	1	Mtr	600.00
		(m) 50 mm dia 'B' Class	1	Mtr	530.00
		(n) 40 mm dia	1	Mtr	512.00
		(o) 32 mm dia 'C' Class	1	Mtr	400.00
		(p) 32 mm dia 'B' Class	1	Mtr	330.00
		(q) 25 mm dia 'C' Class	1	Mtr	300.00
		(r) 25 mm dia 'B' Class	1	Mtr	270.00
982	ELEC-10.7.20	Supplying and fixing single headed Internal / External hydrant valve with instantaneous Gun metal couplings of 63mm dia with Cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gun Metal cap and chain as required.	1	No	8125.00
		Make: Mini Max / Safex / Newage / Winco / Padmini.			
983	ELEC-10.7.21	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze / Gun metal seat duly ISI marked complete with Nuts, Bolts, Washers, gaskets, conforming to IS 13095 of following sizes as required.			
		Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervale.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		(a) 250 mm . dia	1	No	12525.00
		(b) 200 mm . dia	1	No	5300.00
		(c) 150 mm dia	1	No	4350.00
		(d) 100 mm dia	1	No	3400.00
		(e) 80 mm dia	1	No	3100.00
984	ELEC-10.7.21	Providing, installation, testing and commissioning of dual plate non - return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc as required			
		Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve.			
		(a) 200 mm dia	1	No	5000.00
		(b) 150 mm dia	1	No	4000.00
		(c) 100 mm dia	1	No	3725.00
		(d) 80 mm dia	1	No	3500.00
		(e) 50 mm dia	1	No	1723.00
985	ELEC-10.7.22	Manufacture, Supply and delivery of CI Wafer Lug type Butterfly Valves conforming to IS 13095/1991 (Reaffirmed 1998) excluding transportation, CED and taxes etc., complete. Operation done with worm actuator ISI marked Rate at Ex-Factory			
		Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve.			
		(a) 250 mm . dia	1	No	17007.00
		(b) 200 mm . dia	1	No	11849.00
		(c) 150 mm dia	1	No	7631.00
		(d) 100 mm dia	1	No	5088.00
		(e) 80 mm dia	1	No	3812.00
		(f) 50 mm dia	1	No	3067.00
986	ELEC-10.7.23	Providing, installation, testing and commissioning of gun metal valves of following sizes as required.			
		Make: Newage / Winco / Padmini / Safex.			
		(a) 50 mm dia	1	No	1750.00
		(b) 40 mm dia	1	No	1400.00
		(c) 32 mm dia	1	No	1250.00
987	ELEC-10.7.24	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	6140.00
988	ELEC-10.7.25	Supplying and fixing 63mm dia, 15 mtr long CP hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	5510.00
989	ELEC-10.7.26	Supplying and fixing First -Aid Hose Reel with MS construction spray painted in Post office Red, Conforming to Is 884 with upto date amendments, complete with the following as required.	1	No	7500.00
		a) 36.6 Mtr Long 20mm (Nominal internal) dia water hose Thermoplastic / Textile reinforced / Rubber braided / Polypropylene Type - 2 as per IS:12585			
		Make: Eversafe/ Reliance/ Newage/ SRI			
		b) 20mm (Nominal internal) dia gun metal globe valve and nozzle.			
		Make: Newage / Winco / Padmini / Safex.			
		c) Drum and brackets for fixing the equipments on wall.			
		d) Connections from riser with 25mm dia stop valve (gun metal) & MS pipe.			
990	ELEC-10.7.27	Supplying and fixing of hose cabinet of size 750mm X 600mm x 250mm made of No 16 gauge SWG CRCA sheet with 6mm thick glazed glass door including necessary locking arrangement suitable to accommodate 2 Nos 15 mtr long Hose pipe, 1 No branch pipe, mounted on wall OR raised brick platform and duly painted with Post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant as required.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	3250.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
991	ELEC-10.7.28	Supply and fixing 63mm dia Gun metal branch pipe with 20mm (Nominal internal diameter) size Gun metal / SS nozzle conforming to IS 903, suitable for instantaneous connection to interconnect hose pipe coupling as required.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	2530.00
992	ELEC-10.7.29	Supply and fixing 4 way fire brigade connection of cast iron body with 4 Nos Gun metal Male instantaneous inlet couplings complete with cap and chain as required for 150mm dia MS pipe connection, conforming to IS 904 as required.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	9100.00
993	ELEC-10.7.30	Supply and fixing 2 way fire brigade connection of cast iron body with 2 Nos Gun metal Male instantaneous inlet couplings complete with cap and chain as required for 100mm dia MS pipe connection, conforming to IS 904 as required.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	6900.00
994	ELEC-10.7.31	Supply and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia Gun metal wheel valve, with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	1	No	16000.00
995	ELEC-10.7.32	Supply, fixing, testing and commissioning of 15mm size quartzoid bulb type sprinklers of rating 68°C. pendent / side wall with required accessories.			
		Makes: SAFEX / HD / TYCO / VIKING / NEWAGE / SHARP	1	No	490.00
996	ELEC-10.7.33	Supply, fixing, testing and commissioning of UL approved flexible dropper of 1.5 Mtrs length with required accessories.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		Makes: SAFEX / HD / TYCO / VIKING / NEWAGE / SHARP	1	No	1200.00
997	ELEC-10.7.34	Supply and fixing of Pressure Switch in the MS pipe Line including connection etc as required.			
		Make : Danfoss / Indfoss / Approved makes	1	No	2500.00
998	ELEC-10.7.35	Supply and fixing Flow Switches in 100mm dia MS pipe.			
		Makes : System Sensor / Switzer / Approved makes	1	No	5375.00
999	ELEC-10.7.36	Supply and fixing Flow Switches in 150 mm dia MS pipe.			
		Makes : System Sensor / Switzer / Approved makes	1	No	7500.00
1000	ELEC-10.7.37	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation valve and pipe having calibration of 0-16 kg/cm ² .			
		MAKE: HGURU / FIEBIG and Approved makes	1	No	675.00
1001	ELEC-10.7.38	Supply, installation, testing and commissioning of 25mm dia Gate valve			
		Makes : Zoloto / Leader / Approved makes	1	No	1175.00
1002	ELEC-10.7.39	Supply, installation, testing and commissioning of 25mm dia Ball valve			
		Makes : Zoloto / Leader / Approved makes	1	No	650.00
1003	ELEC-10.7.40	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve	1	No	1250.00
1004	ELEC-10.7.41	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 750mm to 800mm	1	No	1000.00
1005	ELEC-10.7.42	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 1000mm to 1200mm	1	No	1200.00
1006	ELEC-10.7.43	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 1.50 Mtr	1	No	1400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
1007	ELEC-10.7.44	Providing, fixing, testing, commissioning of installation control valve of Cast iron body and brass / Bronze working parts comprising of water, motor alarm, bronze seat clapper, and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the Wet riser / Sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass , test control box, ball valves, Ms pipe of required size, flanges, orifice plate, gasket etc of size 150mm dia as required.	1	No	9500.00
		Makes : HD / TYCO / NEWAGE			
1008	ELEC-10.7.45	Supplying, installing, testing and commissioning approved make CI body Foot Valve with brass strainer with necessary flanges, nuts and bolts etc., complete on to the suction line.Rate as per the lowest quotation of Bharat Fire Safety Engineers.			
		Makes:Normex & approved makes			
		a) 200mm nominal dia	1	Ea	24790.00
		b) 150mm nominal dia	1	Ea	13280.00
		c) 100mm nominal dia	1	Ea	7450.00
		d) 80mm nominal dia	1	Ea	5100.00
1009	ELEC-10.7.46	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings	AS per Civil SSR		
1010	ELEC-10.7.47	Supplying and wrapping the anticorrosive material for buried pipes with coating of Primer and wrapping with 4 mm thick polymer corrosion resistant tape as per IS : 10221 with 15 mm overlap as per specificatios.			
		a) 150mm nominal dia	1	Mtr	45.00
		b) 100mm nominal dia	1	Mtr	40.00
		c) 80mm nominal dia	1	Mtr	30.00
1011	ELEC-10.7.48	Supply, fabricating , installing structural steel supports for fixing all sizes of MS pipes from ceiling / wall with MS Channels, Angles, Flats, Rods, as required at site with anchor fasteners, Clamps, threaded rods, nuts, bolts, washers etc complete with painting.	1	Kg	60.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
1012	ELEC-10.7.49	Supply of 3 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.	1	Mtr	95.00
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.			
1013	ELEC-10.7.50	Supply of 3 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.	1	Mtr	125.00
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.			
1014	ELEC-10.7.51	Supply of 4 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.			
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1	Mtr	120.00
1015	ELEC-10.7.52	Supply of 4 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.			
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1	Mtr	165.00
1016	ELEC-10.7.53	Supply of 8 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.			
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1	Mtr	275.00
1017	ELEC-10.7.54	Supply of 10 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete.			
		Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1	Mtr	235.00
	11.1	GENERATORS SPECIFICATION			
1018	ELEC-11.1.1	Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with standard control panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, t to restrict sound level up to 75			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
		dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.		
		A. <u>Alternator</u> : Kirloskar / Stamford / Crompton Greaves / Leroy Somer make. The alternator of the output rating shall be 3 Phase, 415V, 50Hz, Ac , 0.8 P.F. lagging at 1500 RPM. The alternator is self excited, self regulated, and shall confirm to IS: 13364 of 1992 with regulation of +5% from no load to full load. degree of protections shall be IP23.		
		B. <u>Diesel Engine</u> : Kirloskar / Cummins / Mahindra & Mahindra Diesel Engine start, developing suitable ----- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc. 01. Exhaust pipe of required size and length with insulation or clading. 02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards		
1019	ELEC-11.1.2	Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with AMF panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, to restrict sound level up to 75 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.		
		A. <u>Alternator</u> : Kirloskar / Stamford / Crompton Greaves / Leroy Somer make. The alternator of the output rating shall be 3 Phase, 415V, 50Hz, Ac , 0.8 P.F. lagging at 1500 RPM. The alternator is self excited, self regulated, and shall confirm to IS:		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
		13364 of 1992 with regulation of +5% from no load to full load. degree of protections shall be IP21.		
		B.Diesel Engine : Kirloskar / Cummins / Mahindra & Mahindra Diesel Engine start, developing suitable ----- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc.01. Exhaust pipe of required size and length with insulation or clading.02. Diesel tank suitable for 8 to 12 Hours running capacity.03. Residential Silencer.04. SMF Batteries with leads as per the Manufacturer standards		
		C. AMF Control Panel:- AMF control panel shall be fabricated with 16SWG CRCA sheet shall be totally enclosed with dust and Vermin proof, floor mounted / wall mounted type and shall be comprising the following. 01. Voltmeter with selector switch. 02. 4 Pole MCCB incomer of -----A rating of Schenieder / L&T make for EB and DG 03. Ammeter with selector switch with CTs. 04. PF Meter and frequency Meter. 05. Indicator lamps (set Run, Load ON) with fuses. 06. KWH Meter of required rating. 07. Set of control fuses and current transformer. 08. Input Terminal board and output Terminal Board. 09. Battery charger with transformer rectifier unit. 10. Alternator supply air break contactor of L&T make. 11. Main supply air break contactor of L&T make. 12. Audio Visual annunciation . 13. Main supply voltage set of control relays and timers with one mode selector switch, set of push buttons. 14.Control cable up to 15 Mtrs 2.5Sqmm 6 Core		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
1020	ELEC-11.1.3	Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with AMF panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, t to restrict sound level up to 75 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.		
		A. <u>Alternator</u> : Kirloskar / Stamford / Crompton Greaves / Leroy Somer make. The alternator of the output rating shall be 3 Phase, 415V, 50Hz, Ac , 0.8 P.F. lagging at 1500 RPM. The alternator is self excited, self regulated, and shall confirm to IS: 13364 of 1992 or latest version with regulation of +5% from no load to full load. degree of protections shall be IP23.		
		B. <u>Diesel Engine</u> : Kirloskar / Cummins / Catterpillar Diesel Engine start, developing suitable ----- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc. 01. Exhaust pipe of required size and length with insulation or clading. 02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards		
		C. AMF Control Panel:- AMF control panel shall be fabricated with 16SWG CRCA sheet shall be totally enclosed with dust and Vermin proof, floor mounted / wall mounted type and shall be comprising the following. 01. Voltmeter with selector switch. 02. 4 Pole MCCB incomer of -----A rating of Schenieder / L&T make for EB and		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
		DG 03. Ammeter with selector switch with CTs. 04. PF Meter and frequency Meter. 05. Indicator lamps (set Run, Load ON) with fuses. 06. KWH Meter of required rating. 07. Set of control fuses and current transformer. 08. Input Terminal board and output Terminal Board. 09. Battery charger with transformer rectifier unit. 10. Alternator supply air break contactor of L&T make. 11. Main supply air break contactor of L&T make. 12. Audio Visual annunciation . 13. Main supply voltage set of control relays and timers with one mode selector switch, set of push buttons. 14. Control cable up to 15 Mtrs 2.5Sqmm 6 Core 14. Control cable up to 15 Mtrs 2.5Sqmm 6 Core			
	12.1	UPS SYSTEMS			
1021	ELEC-12.1.1	Supply and installation of 800VA, 12VDC home UPS system pure sine wave out put, single phase input / Single phase output.			
		Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1	No	9500.00
1022	ELEC-12.1.2	Supply and installation of 1400VA, 24VDC home UPS system pure sine wave out put, single phase input / Single phase output.			
		Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1	No	13500.00
1023	ELEC-12.1.3	Supply and installation of 2000VA, 36VDC home UPS system pure sine wave out put, single phase input / Single phase output.			
		Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1	No	19200.00
1024	ELEC-12.1.4	Supply and installation of 2.0KVA true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output.			
		Makes: Consul / Power one / Numeric / Emerson.	1	No	29400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
1025	ELEC-12.1.5	Supply and installation of 3.0KVA, 72VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output.			
		Makes: Consul / Power one / Numeric / Emerson.	1	No	39507.00
1026	ELEC-12.1.6	Supply and installation of 5.0KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output.			
		Makes: Consul / Power one / Numeric / Emerson.	1	No	68250.00
1027	ELEC-12.1.7	Supply and installation of 7.5KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output.			
		Makes: Consul / Power one / Numeric / Emerson.	1	No	94500.00
1028	ELEC-12.1.8	Supply and installation of 10KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output.			
		Makes: Consul / Power one / Numeric / Emerson.	1	No	110250.00
1029	ELEC-12.1.9	Supply and installation of 10KVA / 312V DC on line UPS system IGBT based rectifier with input power factor correction 32 bit microprocessor based with isolation transformers double conversion, SNMP controls, LCD display, Pure sine wave out put, with auto static switch three phase input / Three phase output and modular structure for better thermal technology / cooling facility, with warranty up to three years.			
		Makes: Consul / Eaton / APC / Numeric / Emerson.	1	No	185000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
1030	ELEC-12.1.10	Supply and installation of 15KVA / 312V DC on line UPS system IGBT based rectifier with input power factor correction 32 bit microprocessor based with isolation transformers double conversion, SNMP controls, LCD display, Pure sine wave output, with auto static switch three phase input / Three phase output and modular structure for better thermal technology / cooling facility, with warranty up to three years.			
		Makes: Consul / Eaton / APC / Numeric / Emerson.	1	No	212000.00
	12.2	UPS BATTERY RACKS AND WIRE LEADS			
1031	ELEC-12.2.1	Supply and providing of UPS cum battery rack up to 4 batteries	1	No	1500.00
1032	ELEC-12.2.2	Supply and providing of UPS cum battery rack 5 to 10 batteries	1	No	2875.00
1033	ELEC-12.2.3	Supply and providing of UPS cum battery rack upto 11 to 20 batteries	1	No	5175.00
1034	ELEC-12.2.4	Supply and fixing of 12V 26 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	3850.00
1035	ELEC-12.2.5	Supply and fixing of 12V 42 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	6446.00
1036	ELEC-12.2.6	Supply and fixing of 12V 65 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	7970.00
1037	ELEC-12.2.7	Supply and fixing of 12V 100 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	9900.00
1038	ELEC-12.2.8	Supply and fixing of 12V 120 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	10500.00
1039	ELEC-12.2.9	Supply and fixing of 12V, 120 AH MF battery including wire leads.			
		Makes : Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1	No	9965.00
1040	ELEC-12.2.10	Supply and fixing of 12V, 150 AH MF battery including wire leads.			
		Makes : Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1	No	12750.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR DRAFT SOR 2016-17
1	2	3	4	5
OLD MATERIAL RATES				
S.No		Dismantled item :	Unit	Rate
1		PVC insulated alluminium cables and wires	1 Kg	11.00
2		PVC insulated copper cables and wires	1 Kg	50.00
3		Alluminium Maters	1 Kg	62.00
4		MS / Iron poles, angle etc	1 Kg	25.00
5		Copper/Brass materials	1 Kg	140.00
6		PVC pipe/PVC materials.	1 Kg	5.00
7		IC switches/DBs/Feeder pillers.	1 Kg	13.00
8		All types of Ammeter/Voltmeter / any meter	1 Kg	25.00
9		All types of ACBs/OCBs/VCBs LT	1 EACH	1300.00
10		All types of ceiling fans/cabin fans/Bracket fans and pedastal fans etc.	1 EACH	150.00
11		All type Tube light fittings/MV/SV/MH fittings.	1 EACH	21.00
12		All types of accessories such as bells/holders/ceiling roses/MCBs/Tube light starters.	1 Kg	11.00
13		All types of Air circulators/Pedastal Type Air Circulators	1 EACH	500.00
14		All types chokes/condensors/Motor starters	1 Kg	17.00
15		Lift ropes/belt types	1 Kg	20.00
16		All types of electric Motors	1 HP	340.00
17		All types of water pumpsets	1 HP	340.00
18		All types of compressors	1 TR	500.00
19		All Types of AC units (window)	1 EACH	2000.00
20		All Types of AC units (Split ACs) ODU	1 EACH	2100.00
21		All Types of Indoor units of Split Acs	1 EACH	800.00
22		Copper piping of Acs	1 Kg	135.00
23		water cooler instant type	1 EACH	900.00
24		Water cooler storage type	1 Ltr	40.00
25		Refrigerator upto 165 Ltr	1 EACH	1452.00
26		Refrigerator above 165 Ltr	1 EACH	2000.00
27		Exhaust fans 9"	1 EACH	150.00
28		Exhaust fans 12"	1 EACH	200.00
29		Exhaust fan 15"	1 EACH	330.00
30		Exhaust fan 18"	1 EACH	400.00
31		Exhaust Fan 24"	1 EACH	500.00
32		Air cooler of any size without fan	1 EACH	500.00
33		Air cooler of any size with fan	1 EACH	800.00
34		Transformer Oil	1 Ltr	5.00
35		DG Set	1 KVA	1000.00
36		Transformer	1 KVA	400.00
37		EPABX system	1 EACH	1100.00
38		Telephone instrument	1 EACH	50.00
39		Water Purifier	1 EACH	80.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit		RATE FOR DRAFT SOR 2016-17
1	2	3	4		5
40		Invertor/UPS	1	KVA	500.00
41		Voltage stabilizer	1	EACH	500.00
42		Amplifier small	1	EACH	400.00
43		Amplifier Big	1	EACH	450.00
44		Mikes	1	EACH	70.00
<p>Note: Rates of items which are not covered under above List should be calculated on the basis of materials / equipments considering its site condition and prevailing market rates and approval should be taken from the concerned Superintending Engineer(Electrical)</p>					

PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulkar	Per Day	As per Labour rates of SoR
	2. Plumber 1st Class	Per Day	
	3. Plumber 2nd Class	Per Day	
	4. Sewer Cleaner	Per Day	
	5. Well Sinker	Per Day	
	6. Pipe line Fitter 1st Class	Per Day	
	7. Pipe line Fitter 2nd Class	Per Day	
	8. Pump Operator	Per Day	
	9. Bore Mechanic	Per Day	
	10. Light Vehicle Driver	Per Day	
	Note:The rate at relevant item in common SoR is applicable for occasional employment.		
2	RATES FOR EARTH WORK :		
a.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.	To follow the relevant items of Irrigation work items as per Standard data	
b.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.		
c.	Earth work excavation in all types soils for open trenches, for valve pits, inspection chambers, etc.		
3.	Excavation of pipe line trenches for drainage and water supply in rock requiring		
a.	blasting with initial lead and lift including cost of blasting materials where the depth is more than 1.5 times the width, in places where there is no habitation.		
b.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is less than 1.5 times the width, in places where there is no habitation.		
c.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is 1.5 times or more than the width.		
d.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is less than 1.5 times the width.		
e.	Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.		
f.	For contolled blasting at restricted places		
	NOTE :- Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack measurements.		
4	Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
d.	P.V.C. Pipes and fittings	Per Tonne	
5	Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
6	Loading or unloading materials such as C.I. Pipes, DI pipes, PVC pipes, AC pipes less than 300 mm dia, above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	P.V.C. Pipes and fittings	Per Tonne	
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
	Note:- For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hammalae charges if prevailing.		
8.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)		
	Diameter of Pipe/Fittings in mm :	Per Metre	To follow as per Standard data
	80mm to 1000mm dia		
8.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994).		
	Diameter of Pipe/Fittings in mm :		To follow as per Standard data
	80mm to 750mm dia	Per Metre	
	800mm dia	Per Metre	557.00
	900mm dia	Per Metre	723.00
	1000mm dia	Per Metre	940.00
	1100mm dia	Per Metre	1158.00
	1200mm dia	Per Metre	1377.00
9.	Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, Spun yarn and sundries such as cost of fuel for melting lead, filling with water with lead up to 500m and testing to required pressure complete. (Reference to specifications. BIS No.3114/94/12288:1997)		
	Diameter of Pipe/Fittings in mm :		To follow as per Standard data
	80mm to 800mm	Each Joint	
	900mm dia	Each Joint	14545.00
	1000mm dia	Each Joint	16249.00
	1100mm dia	Each Joint	17952.00
	1200mm dia	Each Joint	19656.00
9.	Jointing C.I/ D.I. pipes and fittings with rubber gasket (push-on-joint), excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete (Reference to specifications IS 3114/1994/12888/1997)		
	Diameter of Pipe/Fittings in mm :	Each Joint	To follow as per Standard data
	80mm to 1000mm dia		
10	Jointing CI/DI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	Diameter of pipe/Fittings/ valve in mm :		To follow as per Standard data
	80mm to 750mm dia	Each Joint	
	800mm dia	Each Joint	6098.00
	900mm dia	Each Joint	7173.00
	1000mm dia	Each Joint	8259.00
	1100mm dia	Each Joint	9374.00
	1200mm dia	Each Joint	10528.00
11a	Lowering the RCC plain ended pipes carefully into the trench laying them true to alignment and gradient, jointing RCC pipes with cement joints including curing, the cost of jointing materials i.e., Cement Mortar (1:1.5), hemp yarn etc., and testing including filling with water with a water lead upto 500 metres excluding cost of rubber rings as per BIS No.783/85.		
	per every 25 mm dia.	Per Metre	21.60
11b	Lowering the RCC S/S pipes carefully into the ready made trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water lead upto 500 meters including cost of rubber rings as per BIS No. 783/1985		
	per every 25 mm dia.		
	80mm to 600mm	Per Metre	To follow as per Standard data
	700mm dia	Per Metre	322.00
	800mm dia	Per Metre	386.00
	900mm dia	Per Metre	463.00
	1000mm dia	Per Metre	554.00
12	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85		
a	G.I. Pipes :Dia in mm		To follow as per Standard data
	15mm to 150mm	Per Metre	
12b	Laying, jointing of PVC/HDPE/MDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes including testing-filling with water with water lead.		
	Dia in mm		
	20mm dia	Per Metre	33.00
	25mm dia	Per Metre	34.00
	32mm dia	Per Metre	38.00
	40mm dia	Per Metre	38.00
	50mm dia	Per Metre	38.00
	Note:(i) The above rates are applicable for the works in District only.		
	(ii) If the depth of excavation is more than 0.6 m separate rates to be worked out.		
13	Lowering and laying in ready made trench true to alignment and gradient, jointing, and testing of Stone ware pipes including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)		
	Dia of Pipes in mm .		To follow as per Standard data
	100mm to 450mm	Per Metre	

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
14	Lowering, laying, jointing and testing to hydraulic test pressure including cost of water with minimum water lead of 500m for UPVC pressure pipes in ready made trenches true to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing materials as per BIS No. 7634 - Part III - 1975.		
	Dia of Pipes in mm .		To follow as per Standard data
	63mm to 315mm	Per Metre	
15	Laying and jointing of HDPE pipes in ready made trench by butt fusion welding as per IS:7634 - part-II/1975 as amended from time to time to the alignment and gradient and testing the pipeline to the required pressure.		
	Outer Dia of pipes in MM		
	63mm dia OD	Per Metre	37.00
	75mm dia OD	Per Metre	41.00
	90mm dia OD	Per Metre	46.00
	110mm dia OD	Per Metre	56.00
	125mm dia OD	Per Metre	67.00
	140mm dia OD	Per Metre	70.00
	160mm dia OD	Per Metre	76.00
	180mm dia OD	Per Metre	84.00
	200mm dia OD	Per Metre	91.00
	225mm dia OD	Per Metre	101.00
	250mm dia OD	Per Metre	107.00
	280mm dia OD	Per Metre	118.00
	315mm dia OD	Per Metre	183.00
	355mm dia OD	Per Metre	204.00
	400mm dia OD	Per Metre	227.00
	450mm dia OD	Per Metre	252.00
16	Lowering, keeping in position and fixing C.I. sluice valves (with cap / with hand wheel & Reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces		
	Dia of Valve in mm.		To follow as per Standard data
	80mm to 600mm	Each	
17	Labour charges for fixing Air valves including boring the mains and threading the bore fixing nipple etc.. complete.		
	Dia of Air valve in mm.		
	25mm dia	Each	To follow as per Standard data
	40mm dia	Each	
	50mm dia	Each	173.00
	65mm dia	Each	185.00
	80mm dia	Each	201.00
	100mm dia	Each	237.00
	125mm dia	Each	369.00
	150mm dia	Each	404.00
18	Labour charges for fixing Kinetic Air Valves with isolating Sluice valves, Double Air valves/ Air Cushion valve excluding cost of jointing materials such as bolts, nuts and rubber insertions etc., complete.		
	Dia of Air valve in mm.		
	25mm dia	Each	165.00
	40mm dia	Each	186.00
	50mm dia (Double Air valves)	Each	197.00
	65mm dia (Double Air valves)	Each	211.00
	80mm dia (Double Air valves)	Each	231.00

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	100mm dia (Double Air valves)	Each	269.00
	125mm dia (Double Air valves)	Each	400.00
	150mm dia (Double Air valves)	Each	438.00
	200mm dia (Double Air valves)	Each	476.00
19	Uprooting C.I./ DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.		To follow as per Standard data
	80mm to 600mm	Per Metre	
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, seperating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.	Per Metre	To follow as per Standard data
	100mm to 300mm		
21	Removing old G.I.pipes and specials / fittings and cleaning, scraping the pipes, hoisting and keeping with in 50m lead but excluding earth work excavation of trenches and refilling.		To follow as per Standard data
	Dia of Pipes in mm		
	15mm to 50mm	Per Metre	
22	Cutting C.I./ DI Pipes without water in mains.		To follow as per Standard data
	Dia of Pipes in mm		
	80mm to 600mm	Each cut	
	680mm dia	Each cut	486.00
	700mm dia	Each cut	499.00
	750mm dia	Each cut	537.00
	800mm dia	Each cut	572.00
	900mm dia	Each cut	642.00
	1000mm dia	Each cut	714.00
	1100mm dia	Each cut	787.00
	1200mm dia	Each cut	858.00
23	Cutting A.C. Pipes without water in mains.		
	Dia of Pipes in mm		
	80mm dia	Each cut	30.00
	100mm dia	Each cut	30.00
	125mm dia	Each cut	30.00
	150mm dia	Each cut	30.00
	200mm dia	Each cut	32.00
	250mm dia	Each cut	51.00
	300mm dia	Each cut	51.00
	350mm dia	Each cut	64.00
	400mm dia	Each cut	70.00
	450mm dia	Each cut	88.00
	500mm dia	Each cut	98.00
	600mm dia	Each cut	107.00
24	Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.		
	10 mm to 20mm	Each Tapping	To follow as per Standard data
	25 mm to 40mm	Each	
25	Cutting road surface including stacking of excavated materials for pipe line trench work.		
	a) Cutting open B.T.Road surface	1 Cum	902.00
	b) Cutting open C.C.Road Surface	1 Cum	1878.00
	c) Cutting open Water Bound Macadam/Wet Mix Macadam Road.	1 Cum	231.00

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
26	Bailing out water.(For PH item)		
	a) Bailing out water from the pipe line trenches with oil engine driven pumpsets, including hire charges, fuel charges and wages for Driver and Helper.	HP/Hour	54.00
	b) Bailing out water from the pipe line trenches with Electric Driven pumpset including hire charges, current charges and wages for Driver and Helper.	HP/Hour	40.00
	NOTE:- The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.		
27	Shoring and strutting of trenches for water and sewer main.		
	a) Single Staging from (0 to 2.5 Mts.)	1 Sqm of Shoring	To follow as per Standard data
	b) Double staging from (2.5 m to 4.5 Mts.)	1 Sqm of Shoring	
28	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.	1 RMT	To follow as per Standard data
29	Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work.		
	a) 0 to 1 m deep under water.	10 Cum	12255.00
	b) 1 to 2 m deep under water.	10 Cum	17553.00
	c) 2 to 5 m deep under water.	10 Cum	26347.00
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	5034.00
	NOTE:- The above rates do not include rock requiring blasting or chiselling.		
30	Laying and jointing perforated RCC pipes inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars.	Per Metre	40.00
	per every 25 mm dia/mtr.		
31	Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.		
	a) for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.		
	1) Slabs for thickness (150 mm to 300 mm)	One Sqm of Centering area	3586.00
	2) Slabs for thickness above (300 mm)		7170.00
	3) Side walls curved surfaces including both sides of wall.		2709.00
	4) Side wall straight surfaces including both sides of wall.		2411.00
	5) Dome.		2937.00
	6) Roof Slab.		1807.00
	7) Column braces and beams		1209.00
	8) Circular braces, ring beams & circular column.		1327.00
	9) Conical Slab		2709.00
	Note:- For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m --- 21% 24 m -27m ---27% above27m --- 30%		
	b) For Ground level works/ Below the ground level works :-		
	1) Slabs	1 Sqm	To follow as

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	2) Beams & Lintels	1 Cum	per Standard data
	3) Sun shades	1 Sqm	
	4) RCC vertical walls of plane surface including both sides of wall.	1 Sqm of centering area	964.00
	5) RCC vertical walls of circular faces including both sides of wall.		1227.00
	6) Dome		1349.70
	NOTE: Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m. The above centering charges are applicable for water retaining structures only.		
32	Lift or delift of materials :		
	a) Lifting of cement concrete for RCC elevated reservoir. For every 3m height or part thereof over the initial lift of 3 m.	1 Cum	147.00
	b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of ground level reservoirs, inspection wells, test wells and sump wells etc., for every 1 m depth or part thereof beyond the initial depth of 4 meters from ground level.	1 Cum	45.00
33	Labour charges for fixing ventilating shafts complete with all accessories.	Each	To follow as per Standard
34	Labour charges for fixing water closets including fixing of foot rests (for all sizes).	Each	Relevant Building SoR items
35	Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete	Each	
36	Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete	Each	
37	Fixing urinal with inlet and waste pipe connections etc., complete.	Each	
38	Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete	10 Cum	
39	Extra allowance for isolated scattered works viz., valve pits, public fountains, meter pits and manholes, etc., complete.	Each	
	(b) Repairs to the existing mains, interconnections, replacement of valves/specials etc., including the cutting, jointing, bailing out of water, drying, earth work excavation etc., complete, but excluding cost of pipes, valves and specials.		150% extra over the cost of work
40	Removal of wet silt and sludge from sullage drains, with aid of baskets and vessels, etc with initial lift of 3 m and lead of 50 m.	10 Cum	2201.00
41	Well sinking in sandy and other loose soils under water either by manual labour, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc.,		
	Upto 2 m below GL/m	Per metre	To adopt as per Standard data
	From 2 to 4 m below GL/m	Per metre	
	From 4 to 6 m below GL/m	Per metre	
	From 6 to 8 m below GL/m	Per metre	
	From 8 to 10 m below GL/m	Per metre	
	Note:-Below 10 m for every metre depth or part thereof add Rs.250/- per m. For higher dia, observed data is to be prepared and got approved.		
42	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, with seismic analysis Zone -II		(Rate in Rupees)
a	500 Kilo litres	Per litre	16.00

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
b	1000 Kilo litres	Per litre	13.64
c	1500 Kilo litres	Per litre	12.61
d	2000 Kilo litres	Per litre	11.93
e	2500 Kilo litres	Per litre	11.30
	1) The above rates are arrived with base rate of Cement Rs.5500/- per MT & Steel for Rs.33,000/- per MT for the month of May-2016		
	2) All concrete components shall be designed with M30 Design Mix proportion.		
	3) For intermediate capacities proportional rates shall be adopted.		
	4) The foundations shall be designed for Annular Raft Footings. The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for SBC of 15 T/Sqm.		
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by 2.5% on basic rate .		
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by 1.0% on basic rate up to 20 T/Sqm.		
	c) For SBC below 10T/sqm , solid raft shall be provided and for solid raft the rate shall be increased by 10% on basic rates		
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paise on basic rate per litre per every metre decrease in staging.		
	6) For staging above 15 m, the rate shall be increased by Rs.0.10 paise on basic rate per litre per every metre additional staging.		
	7) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc-5500)/5500 x 0.07		
	Rc = Rate of Cement (Rs per MT) at the time of preparation of estimate.		
	8) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x (Rs-33000)/33000 x 0.2		
	Rs = Rate of Steel (Rs.per MT) at the time of preparation of estimate.		
	The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	9 a) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.		
	b) Rate inclusive of 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, Pipes,Pipe specials, valves of DI material, Valve chambers etc., for pipe connections including cost of pipes,specials and valves as per departmental directions and drawings.		
	10) The above rates adopted for a wind pressure upto "250 kg/sq m". For every 100 kg/sqm decrease in wind pressure, the rate shall be decreased by 5%		
	11.a)The Basic rate is adopted by considering the design for Seismic forces for Zone-II only of seismic zones.		
	b) The basic rates shall be increased by 15 % for Zone-III of seismic zones.		
	12. The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities above 500 KL & upto 1000KL.		
	13. The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.		
	14) The basic rate is inclusive of following <u>Fixtures</u> .		
	i) Pipe connections & Specials with D.I materials		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	a) All pipe connections for Inlet, Out let (2 Nos), Over Flow, Scour pipes shall be provided with D/F DI material. b) The Valves for above pipe connections also shall be of DI material of PN 16 c) All specials such as Bends, Tees, Reducers, Duckfoot Bends, Bell mouths etc., shall be of DI material.		
	II) The sizes of the verticals for ELSR/OHSR shall be:		
	a) For 500 KL to 750 KI ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia and DI Valves 02 Nos Over Flow pipe - 350m dia Scour Pipe - 200mm dia		
	b) For 800 KL to 1500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia and DI Valves 02 Nos Over Flow pipe - 450m dia Scour Pipe - 200mm dia		
	c) For above 1500 KL to 2500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia and DI Valves 02 Nos Over Flow pipe - 500m dia Scour Pipe - 200mm dia		
	iii) Manhole Frames & Covers		
	All man hole Frames & Covers shall be made of CI/DI materials with min. size of 0.60mX 0.60m - For Roof & Valve Chambers.		
	iv) CI/D.I Double Swan neck ventilators (min. of 150mm dia) shall be provided in top dome and slab with mosquito/fly proof nets - 4Nos.		
	v) RCC phenial ventilator with fly/bird protection with GI mesh - 1 No.		
	vi) RCC precast ladders of 0.60 m width - 2 Nos.		
	vii) RCC dog legged stair case of 1.00 m flight width and 1.20 m landing width R.C.C hand railing of 1.0 m height - 1 No		
	viii) The staircase shall be enclosed with brick masonry walls on three side and collapsible MS gate on front side up to 1 st brace level, to prevent unauthorized entry.		
	ix) Construction of R.C.C valve chambers as per Standard Drawings with RCC cover slab fixed with CI/DI manhole Frame & Cover with lock and Key arrangement. The Mix shall not be less than VRCC M 20 grade with 150mm thick side walls, 150mm thick top slab, 150mm thick base slab over base course of 100mm thick (1:4:8) prop.		
	x) Balcony of 1.00 m width at floor slab level / middle ring beam level by using Stainless Steel pipe of grade 304 hand railing up to 1.20 m height, with top railing of 40mm dia pipe & middle railing of 25mm dia and verticals with 40mm dia at an interval not more than of 1.00m c/c.		
	xi) Water Level Indicator of reputed make - Digital type (1 No) and Conventional type (1 No)		
	xii) Lightning Arrestor with all its accessories complete including earthing, with relevant IS Codes - 1 No.		
44	Rates for OHSRs/ELSRs including fixtures with a staging of 12 m for Zone-II Seismic .		(Rate in Rupees)
a	Upto 10,000 Litres capacity	Per litre	72.13
b	20,000 Litres capacity	Per litre	42.90
c	40,000 Litres capacity	Per litre	34.53
d	60,000 Litres capacity	Per litre	23.58
e	1,00,000 Litres capacity	Per litre	19.34

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
f	1,20,000 Litres capacity	Per litre	18.86
g	1,50,000 Litres capacity	Per litre	18.14
h	2,00,000 Litres capacity	Per litre	16.94
i	2,50,000 Litres capacity	Per litre	16.41
j	3,00,000 Litres capacity	Per litre	15.89
k	4,00,000 Litres capacity	Per litre	14.02
l	4,50,000 Litres capacity	Per litre	12.14
	NOTE: -1) For intermediate ranges proportional rates may be adopted. All VRCC shall be in M30 grade design mix.		
	2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION for footing and a rate of Rs.5500/- per tonne for cement and Rs.33,000/- per tonne for steel for the month of May-2016.		
	3) For every metre of staging less than 12 m, the rate shall be reduced by Rs.0.05 paise per litre per every metre of difference in staging.		
	4) For every metre of staging above 12 m, the rate shall be increase by Rs.0.10 paise per litre per every metre of additional in staging.		
	5)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-5500)/5500 x 0.07 Rc = Rate of cement (Rs per MT) at the time of preparation of estimate		
	6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x (Rs-33000)/33000 x 0.2 Rs = Rate of steel (Rs per MT) at the time of preparation of estimate.		
	The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	7) Rate inclusive of three coats of food grade epoxy paint to inner surface of the reservoir including roof dome.		
	8) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of wheather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes,bends and valves as per departmental designs and drawings.		
	9) The above rates are applicable for wind pressures upto 250 kg / sq m .For decrease in wind presure the rate has to be decreased by 5% per every 100kg/sqm. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.		
	10)If the ELSR is to be designed for seismic forces a) The above rates are applied upto Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 15%.		
	11) Fixtures include :		
	a) RCC or Aluminium ladder inside 0.60 m wide.		
	b) RCC spiral staircase with RCC railing on the outside shall be provided upto 200KL ELSR. Above 200KL ELSR Capacity dog legged staircase with Steel railing shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing upto 1.0 height.		
	c) Lightening arrestor, including conductor and earthing etc with relevant IS codes.		
	d) RCC ventilators with copper or stainless steel fly proof mesh.		
	e) D.I Manholes frame and cover 0.60x0.60 m as per IS specifications (light duty) - 2 Nos.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	f) Water level indicator of good quality with ebonite/ copper float approved pattern - 1 No.		
	g) The ladder shall be with Aluminium and Verticals with HDPE of 10kg/Sqcm shall be provided for single column OHSRs only.		
	h) Minimum staging for all ELSR/OHSR shall be 12.0mts.		
	i) The increase in staging shall be at 1.0mt interval.		
	j) The railing provided to the gallery and staircase shall be with stainless steel of grade 304 for a height of 1mts.		
	k)The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with PVC door of standard maker up to 1st brace level from ground level to prevent unauthorized entry.		
	l) D.I swan neck ventilators shall be provided in top dome and slab.		
	m) The above rates are exclusive of all inlet, outlet connection and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves.		
45	Construction of Rapid Gravity Filtration Plant including all civil, mechanical and electrical works using sand as filter media, duly following relevant IS codes in the design of plant components including trial running for 90 days etc., complete.		(Rate in Rupees)
	1) 2.0 Mld	Per litre	4.62
	2) 5.0 Mld	Per litre	3.70
	3) 10.0 Mld	Per litre	3.17
	4) 20.0 Mld	Per litre	2.71
	5) 30.00 mld and above.	Per litre	2.39
	NOTE :-		
	a) For intermediate capacities proportional rates may be adopted		
	b) The above rates are applicable with cement @ rate of Rs.5500/-MT and steel of Rs. 33,000/MT for the month of May-2016.		
	c)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-5500)/5500 x 0.07 Rc = Rate of cement (Rs per MT) at the time of preparation of estimate.		
	d)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x (Rs-33000)/33000 x 0.2 Rs = Rate of steel (Rs per MT) at the time of preparation of estimate.		
	e)The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	The components of the filtration plant will include the following		
	A) Civil Works (All works of VRCC Shall be in M30 design mix)		
	1) Stilling Chamber including Aeration cascade		
	2) Pre-Settling tank shall be provided for 30 MLD and above capacities of WTP for a minimum of 1 hour capacity.		
	3)Raw water channel with Stainless Steel Weir of SS304L Grade material and also with digital flow meters.		
	4) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc, Using 304L Grade Steel.		
	5) Clarifluculator / Flocculation tanks with the components of central driven circular clarifier with scrapper & bridge arrangements made with Stainless Steel Grade 304 L tubes /angulars for durability & chemical resistant with wheel arrangements etc.,		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	6) Filter house, Chemical house, Alum store, Laboratory room , Chlorination plant room, toilet etc. (All structures shall be provided RCC roof only).Chemical house & Chlorinator rooms are to be isolated.		
	7) Wash water tank of suitable capacity shall be constructed independently		
	8) All the Doors and Windows shall be of Aluminium.The entrance door shall be minimum size of 2.40 X 2.40 mts.		
	9) All pipes and valves in Plant shall be of D.I. materials. All the Connecting pipes of the plant components such as from Flash mixer to Clarifloculator/ Clarifier/Flocculation tank, to Filter beds, sludge disposal pipes shall be of D.I. material. The size of sludge disposal pipe shall be minimum of 450 mm dia with D.I D/F pipe.		
	10) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be sufficiently spaced for easy operation,maintenance and inspection .		
	11) The bottom level of the wash water control chamber must be above G.L so as to dispose the wash water and sludge from Clarifloculator by gravity to disposal point.		
	Additional specifaions		
	12) Railing for all the components (Clarifloculator, Filter House, Staircase etc shall be provided with Stainless Steel of grade 304 for a height of 1.00m, with 40mm dia pipe for top horizontals,25mm dia for middle row and 40mm dia verticals spaced at interval of not more than 1.00m c/c.		
	13) Inspection / Path ways in filter beds : Middle pathway: Minimum of 1.50m,Side pathway: Minimum of 1.20m.		
	14) Flooring in the buildings (Filter house, Chemical House, Chlorinator Room, Laboratory) shall be provided with Non-skid tiles of approved make & quality , as per standard specifications.Dadoing shall be provided upto 1.80mts from floor level in chemical room, Chlorination room.		
	15) The basement of the Filtration plant building shall be minimum of 0.75m above the existing nearby Road top level.		
	16) Minimum head room of 2.00m shall be provided , at the alum mixing chambers in alum store for inspection & maintenance.		
	17) The minimum width of entrance hall for the Filter House shall be 4.50m , and Laboratory, of min size .of 3.30 X 4.50m .		
	18) High efficient Air Blowers of standardised make shall be installed to the design requirement with low noise pollution , environmental pollution as per PCB guide lines & Testing of blowers as per I.S norms at site.		
	19) UPVC pipes shall be provided for water drain.Filter pipe manifolds shall be assembled with HDPE pipes.		
	20) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.		
	21) A) Chlorinator : Vaccum type chlorinator shall be provided with following specifications: a) Vaccum operated solution feeding type Vaccum Regulator, Rotometer, Rate setting Valve, built-in NRV, Gas Overflow out let by manifolding to mount the system with the unit.		
	b) The unit shall consists of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacum relief Valves - for control of chlorinator dosage. c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel seamless pipes, copper tube with brass fittings of suitable size & dimensions, with diaphragm sealed chlorine pressure gauge arrangements.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	d) Water Boosted Pump of pumping capacity ranging from 2 cum/hr to 12 cum/hr, with Head ranging from 16 to 35 MWC e) The water & solution carrying pipes shall be made of UPVC material of suitable size incl.all specials such as Tee's , Bends, couplings & NRVs and also Pressure Gauges of suitable range.		
	f) Chlorine Gas detector with alarm indicator. The following are the specification for Gas Chlorination System for 13 MLD STP Plant		
	1) Chlorinator and Chlorine gas line : Chlorinator with flow indicator and flow control valve of Capacity : 2kg/hr containing inbuilt accessories like Filter, Rotameter with Dose rate adjuster etc, Test Pressure: 5 Bar Material of Construction (MOC): PVC/ VITON/ HASTELLOY C4/ NICKLE PLATED BRASS , PVDF, BOROSILICATE GLASS, MONEL etc		
	2) Vacuum and Vent Rating Rating – 10 Bar, Dia – 8/12 mm, MOC: PE Tubing		
	3) Gas Filter Capacity : 10 KG/ HR , MOC (Body) : Carbon Steel , MOC (Media) : Glass Wool + Monel Mesh , Connection : Flanged ASA 300		
	4) Power water line and its accessories: - Power water line upto ejector flange with all accessories and fittings as per P & I Diagram : Booster Pumps (Centrifugal, Vertical type) , flow : 1.5 m ³ /hr , Head : 70 mtr, Motor Rating 1.1 KW , 2900 RPM Isolation valve and Strainer on booster pump suction- Type : Sluice , Connection : Threaded , Size : 1" , MOC : Brass		
	Non Return valve & Isolation valve on booster pump discharge- Type: Wafer, Connection: Threaded , Size : 1 " , MOC : Brass P .G on pump discharge line with isolation valves : Range : 0 to 10 Bar , process connection : 0.5" BSP (M) , Type : Bourden		
	5) Chlorine solution line: - Ejector with built in check valve assembly: Type Fixed Throat, Model : Type E, MOC : PVC, VITON , Connection 05 " Union PVC -Chlorine Solution line with fitting from ejector delivery upto Dosing point: MOC: PVC , MAKE : Dutron , dia : 15 mm , Rating : 10 Bar - Diffuser for Dosing in Tanks : MOC – PVC , Length : 3 mtrs, Dia :15 mm, Make : Toshcon Jesco		
	6) Empty Toners : Make : ISGEC , Design pressure : 20.63 Kgf/cm ² (g) , Design Temperature : 65 Deg C , Material of Construction : 516 Grade 60 , Longitudinal Shell Joint and Head to Shell joint : Fusion Welded , Radiography : 100 % , Hydraulic Test Pressure : 30 kgf/cm ² (g), Design approval : Lloyd's Register Asia , Tare weight : 620 kgs , Water Capacity :780 kgs , Chlorine Capacity : 928 Kgs		
	7) Roller Support Assembly : MOC : MS Structure without Gun Metal Bushings Duly Painted , Load Capacity : 2 Tons.		
	8) Auxiliary Ton Container valves (yoke) with clamps : MOC : Al-Si_Bronze , Monel , PTFE etc, Rating : 35 Bar , Connection 5/8" BSP (M)		
	9) Valves and Accessories: -Flexible connector with Isolation Valves : Length: 1.5 m, MOC : Copper , Brass , Connection : 5/8 BSP union(F), Pressure Rating : 15 Bar - Header Line Isolation Valves: MOC: Al-Si-Bronze , Monel , Panel , PTFE etc, Rating : 35 Bar, Connection : 5/8" BSP (M) - Gas Filter inlet/outlet isolation valve: Size 0.75" , MOC: CF8M, Rating :18 Bar, End Connection : Flanged ASA 300		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	<ul style="list-style-type: none"> - Pressure Indicator Isolation valve : MOC : CF8M, Rating : 15 Bar, Connection : 0.75 " BSP, Seal Material :PTFE - Chlorine Solution Line Isolation Valve : MOC : PVC , Make : Dutron , Size : 15 mm -Diffuser Isolation Valve : MOC : PVC , PTFE , Make : Dutron , Size : 15 mm. 		
	<p>10) Instruments :</p> <ul style="list-style-type: none"> - Chlorine Leak Detector Double Alarm sensor with Audio alarm in Building & Panel : Make : Toshcon Jesco , Alarm Pre Set Level : 2 PPM (low) , 5 PPM (High) , Type : Electrochemical , Display : 7 Segment LED , Cabinet : Polycarbonate , Transmission Output : 4-20 mA 		
	<p>11) Safety Equipments :</p> <ul style="list-style-type: none"> - Cannsiter Type Respirator with full face Coverage : Make : Grouptech , Accessories : Full Face Mask -Ammonia Bottle with leak torch : Quantity : 500 ml , Make : Merck/Equ - Gloves , Rubber Boots , Apron , Google and Helmet : Size : Universal - Emergency Eye wash shower and Basin : Make : J.K Enterprises, MOC: G.I , ABS Plastic , Required Water Pressure : 1 Bar , Inlet Connection : 1.25 " 		
	<ul style="list-style-type: none"> - Self Contained Breathing apparatus Complete with Warning Whistle (Type Full face) : Make : Group Tech , Accessories : Storage Bag, Carrying Harness , Demand Valve type Full face mask , Warning Whistle , Duration : 30 mins - Emergency Kit B : Make : J.K Enterprises , Type : B for Tonner 		
	<p>12) Chlorine Leak Absorption System :</p> <ul style="list-style-type: none"> - FRP Hood on Tonners : MOC : Isophthalic Resin , Type : Full , Colour : Pigmented Yellow , Thickness : 4 mm - ID Fan : MOC : FRP , Make : TCF NADI , Motor Rating : 2.2 kW, 2830 RPM, Head: 300 MMWC, Flow : 1000 m3/hr , MOC of Wetted parts : MS + FRP lining , Inlet/Outlet Connection : Flanged 		
	<ul style="list-style-type: none"> Flex Hose from FRP Hood to ID suction : MOC : PVC, Dia : 4" , Rating : 10 Bar, Make : Dutron - Flexi Hose from ID fan discharge to Chlorine Gas leak Absorption Pit : MOC : PVC , Dia : 4" , Rating : 10 Bar, Make : Dutron 		
	<p>Additional Items :</p> <p>1) Pressure Reducing Valve – MOC: Carbon Steel , Viton , PTFE , and Hastelloy C4 etc , Up stream Pressure : 15 Bar , Down Stream Pressure : 2.5 Bar (Adjustable) , Connection : Flanged ASA 300</p>		
	2) Control Panel for Chlorine Absorption system.		
	i) 2 to 10 MLD Plants - 1Kg/hr Chlorinator Rate .073 paisa on basic rate of WTP-for Post Chlorination		
	ii) 10 MLD to 20 MLD Plants - 2 Kg/hr Chlorinator Rate .033 paisa on basic rate of WTP-for Post Chlorination		
	iii) 20 MLD to 50 MLD Plants - 5 Kg/hr Chlorinator Rate .015 paisa on basic rate of WTP-for Post Chlorination		
	B) Mechanical Equipment		
	1) Alum dosing equipment with SS 304 material made stirrers & paddles for chemical resistance. (Alum tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)		
	2) Flash mixer equipment with SS 304 material made stirrers & paddles for chemical resistance.		
	3) Filtration plant equipment instrumentation and piping.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	4) Clariflocculation equipment (with stainless steel blades) with rotating bridge arrangement etc.,The equipment consists of following components a) Flocculator Drive Mechanisms These will consist of suitable H.P geared electric motor mounted on M S Frame work on bridge platform.		
	b) Flocculating Mechanisms and raking in the flocculation compartment . These will consist of vertical M S shafts and arms, wooden paddles, guides, bearings etc with stainless steel bush bearing for the shafts at the bottom. The paddle area shall be between 10 to 25 % of the cross section of flocculating zone c) Mechanism for raking in clarifier compartment.		
	d) Revolving Bridge This will be made of M S sections with torsion proof fabrication of required length and width of 1.22 m. The scrapper frame work of M .S section shall be hung from bottom of the bridge. The Bridge will have an outer travelling trolley. The walk way will be 1.22 m wide and shall have chequered plates. The web of the bridge structure shall perform the function of hand railing on both the sides also. The scarping plates will be fitted with the scrapper frame work with hinges and stainless steel pins and will be fitted 12 mm thick rubber ledging . The scrapers will be so adjusted as to ensure smooth and even scarping of the floor.		
	e) Bridge Drive The Bridge will be driven by an electrically operated geared motor with suitable H.P.		
	f) Bridge Drive Mechanisms This will consist of two nos of steel wheels driven by electric geared motor. The wheels will be fitted on the trolley with necessary bearings, pedestals etc . These wheels travel along the periphery of the clariflocculator tank on rails.		
	g) Electrical Arrangements These will consist of electrical cables PVC insulated with copper wires run from the main switch board provided in the chemical store and run under the tank and along the central column. The cable will be connected to the central slip arrangements. The electric geared motors will be controlled from the control panel fitted on the bridge with necessary weather proof housing cabinet with necessary cables, wires, starters , switches etc .		
	5) Stainless steel wheel shall be provided for the bridge clariflocculator.		
	6) Wash water tank fittings and pumpsets with 100% stand by.		
	7)Air blower with motor 100% stand by and pipe connections. Air Scouring type with twin lobe rotary having required capacity and pressure as per hydraulic design having following components: Blower, Base Frame for blower and motor, Foundation Bolts, Nuts and Washers, Slide Rail and Motor Bolts, V Belts, Pulley, Guard, Suction Silencer, Discharge Silencer, Safety Relief Valve and Non Return Valve , Companion Flange, Interconnection Pipe, Flexible Bellow, Safety Valve and T Connection, First Fill of Lubricants, Anti vibration Pads, Acoustic Enclosure and Motor : CGL/KEC/ABB make.		
	Materials of Construction : a) Housing : C.I IS 201 FG 260 b) Rotor Shaft : S G IRON c) Shaft : EN 19 forged and heat treated d) Timing Gears : Cast Alloy steel (20 microns) forged and heat treated . e) Pulley , Gear side , plates and covers : C.I IS 210 FG 260 f) V Belts : Reinforced rubber g) Base plate : MS Enamel Painted h) Belt Guard : MS Enamel Painted i) Fasteners : As per IS 1363/ IS 1367		
	8)Spares & Tools and the same shall be handed over after 2 years defect liability period.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	9)Gaseous Chlorination with cylinders has to be provided with protection measures.		
	C) Electrical Equipment		
	1) Necessary power supply wiring to motors and switches bus bar connections as per IE Rules.		
	2) Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.		
	3) Erecting mechanical and electrical equipment, trial run for 90 days 23.50 hours per day testing the treated water for efficient standards and maintenance of records and imparting training to staff.		
	4) Supply of 6 - Sets of completion plans and maintenance manual and brochures.		
	5) All cables shall be with of copper material, Cable ducts shall be covered with MS / Aluminum chequed plate.		
	6) Yard lighting shall be provided at 6 locations with required fixtures..		
	D) Equipment for Flow measurements		
	1) Equipment for Flow of Conductivity, Turbidity, Ph value, Residual Chlorine with recording & data storage facility (Computer based) & Alarm by SMS or other methods.		
	2) Off - Site Supervisory and Data Acquisition (OSSADA) system for Raw water & Clear water flows by installing Digital Flow meters to measure the flows at Raw water Channel and at each filter bed individually and combined for measuring the quantities of water treated with a facility to record and store the readings & also to send messages to the assigned designatories about the variations/ deficiencies in the flow including alerts for back wash requirements of filter beds, and recovery of data for the past 360 days. All the Digital Flow Meters & Pressure Gauges shall be provided of standard approved make.		
	Hardware:		
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out lets with accessories.		
	ii)Electrode Type: General type, Scraper type or replaceable type Electrode made with material of SS external Ultra Touch Sensors as per requirement.		
	iii)Customised Application Requirement : Sensors with Interface logic control board with serial interfaces, On - sensor Board Buffer, Timer, RS485 Communication, Analog to Digital Sensing Sensor Circuit, 32 Sensors Sensing Tags, Interval Power Supply System , LCD 16c/2L, Filter Bed Working Status Indication LED, Filter Bed Wash Indication Button and memory of Data Storage for 30Days , status of Filter Bed Level indicator, Rating, Reading on LCD Display, Menu Driven Data for sending to Onsite Big Display, operated with Battery Power of any reputed make or any equivalent make.		
	iv)Customised Application Requirement: Power Sensors Interface logic control board with support 8 Power Sensing tags, Central System Interfacing Communication, On - board analog to Digit Convert Integrate Circuit of any reputed make or any equivalent make.		
	v)Customised Application Requirement: Centralized System with two serial interfaces, 3 Nos of Add-On ports, One external DC Power Socket, On - Board Buffer, On - Board Timer, On - Board RS485 Communication, On - Board RS 232 Communication, On - Board GPRS/GSM Module, On - Board Voice Chip, On - Board Power Sensing Module, LCD 16c/2L, Filter Bed Wash Precaution Indication with Stop Button, Memory of Data Storage for 30 Days, Total Bed Rating, Reading display on LCD Display, Menu Driven, Menu Navigate Keypad, sending data to the Web Server, Communication with GPRS , operated with Battery Power of any reputed make or any equivalent make.		
	Software:		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	The software shall be designed with Web Domain with Data Base Server and Web Name as per the directions of the Departmental Authorities		
	The application of Software for Web design & Desktop shall meet the following requirements:		
	Onsite Display: Letters with size of 1.5' Seven Sigmoid LED Display with Interface for each Filter Bed, for Onsite Display, by displaying the Bed Levels, Ratings, Readings in 3 Columns, for each bed of the plant in successive rows and cumulative results at the bottom of the screen.		
	Off Site Display: Letters with size of 1.5' seven Sigmoid LED Display with Interface GPRS/GSM Modules Offsite Display, with Display of Bed Total Rating, Total Cumulative Reading as specified on On-site Display Features.		
	The system shall have also the features of Onsite Bed Wash Voice Precautions for Bed Levels, Readings, Ratings, Bed Capacity Readings and Ratings and Bed Low Level Triggering, before & after Bed wash.		
	The software shall also have the features of sending messages to the mobiles of the Departmental designatories indicating Bed Low Levels, Power Supply timings, Bed Wash timings and its status, Power Supply timings and its status Grid View Table, Motor Working time and its status Grid View Table, all trigger events and schedule information and including all Snap View Reports, all Daily, Monthly, Yearly Reports, all Power Working Reports, all Power Events Information etc.,.		
Sewage Treatment Plants			
1	Moving Bed Bio Reactor Technology (MBBR)		
	Designing (Hydraulic, process, structural and aesthetic), providing construction, hydraulic testing, commissioning and giving satisfactorily trial run for 3 months of STP consisting of inlet chamber, Screen Chamber, Grit Separator, MBBR (Based on technologies providing attached growth on plastic media kept suspended in the sewage due to low density of plastic & provided with diffused air for aeration with tank. secondary clarifier, sludge collection sump, Gravity Sludge Thickener, Chlorine Contact Tank, Chlorinator Room, Sludge Dewatering Equipment, associated piping work with required valves, gates, drains, Administration Block cum laboratory associated buildings, Laboratory Equipments, inclusive of mandatory spare parts and instrumentation, etc., complete as turnkey job with all involved civil, electrical, instrumentation and mechanical works inclusive of following items, units as per detailed specifications for Civil, electrical, instrumentation and mechanical components with all duties and taxes etc., complete to achieve BOD < 10ppm, TSS < 10ppm, Biological TN < 10ppm & PO4 < 2ppm to get recyclable quality of water for industrial/agricultural purposes. The coagulant Dosing System is mandatory for chemical phosphorus removal. All units shall be interconnected with administration building by suitable or RCC overhead walkways.		
	Min. freeboard of 0.3m shall be maintained unless otherwise asked for 0.6m stipulated for specific units.		
A	Primary Treatment		
1	Inlet Chambers: Designing, Providing and constructing RCC (M:30) inlet chamber for the peak flow as per CPHEEO Manual including necessary excavation in all types of strata including walkway all around the periphery. Inlet chamber having minimum HRT of 60 seconds, each compartment will have steel gates with extension rod, head stock operation wheels. GI pipe railing etc.,. The work includes providing and making necessary arrangements to connect the flow to screen chamber by approach channel as directed and as per specifications.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
2	<p>Screen Chambers:</p> <p>Designing, providing, constructing, testing and commissioning of two approach channels (min 4.5m long), mechanically cleaned bar rack screen (6mm clear opening 10mm the flats), Escalator Screens, with 10% standby manual fine screen (10 mm clear opening) MOC : SS316, CI sluice gates (one before screen & one after screen), designed as per CPHEEO Manual in RCC (M-30). Including inlet pipe/Channel from inlet chamber, outlet pipe/channel to detritus tank, free board of 0.5 m minimum, RCC walkway 1.2 m wide with GI pipe railing. RCC stair case of 1.2 m width from GL to screen chamber with operation platform and belt conveyor system inclu. panel & push button switch at local level as well as MCC room for two way control.</p>		
3	<p>Grit Chamber:</p> <p>Designing, providing and constructing Grit Chamber - Detritus or vortex type or aerated type (100% standby), mechanically operated in RCC (M 30) capable of removing 100% of 0.2 mm size particle and above, having specific gravity 2.40 HRT of 1 Minute at average flow (Detritus Tank) horizontal velocity not exceeding 0.30 m/sec (Detritus Tank) at peak flow with suitable arrangement of separation of Grit from putrescible solids. Inlet and outlet channels of required sizes as may be required to connect the flow to connecting unit etc. Complete including hydraulic testing for water tightness of structure having minimum FB of 0.3 m, wash out arrangement of Grit Chamber and platform 1.2 m wide RCC walkway with GI pipe handling shall be provided. A pit for collecting grit conveyed by conveyor shall be provided. It should be suitable to handle the Grit for carting. All arrangements shall be as detailed specifications and as directed.</p>		
4	Parshall Flume having head loss limited to 0.15 m with necessary flow measuring devices/meter consisting of digital indicator in LPS & MLD.		
B Secondary Treatment			
5	<p>Distribution Chamber</p> <p>Distribution chamber with CI sluice gates for each basin of MBBR and bypass chamber, min. 3m x 2m of required depth, operating platform with CI pipe to connect to MBBR basins. Bypass pipe from distribution chamber upto inlet of CCT shall be provided in RCC pipe with manholes and CI sluice gates.</p>		
6	<p>MBBR Tank</p> <p>Minimum Total HRT of 6.0 hours (at average flow with Aerobic Detention Time 4.5 Hrs & Anoxic Detention Time -1.5 Hrs), Designing, providing & constructing in RCC (M-30) biological reactor tank for removal of BOD and T-N to handle the average flow & having hydraulics suitable to handle peak flow conditions with suitable 1.2m wide walkway, expansion Joints as required, Including foundation etc as per specifications. The tank shall be equipped with Inlet & outlet arrangement, process air blowers for supply of air, fine bubble diffusers of EPDM material / Coarse bubble aeration grid in SS-304, PP (virgin plastic material of minimum 600 m2 specific surface area/ m3) carrier bio media etc. FB of 0.5m & SWD as required should be complete as per detailed specifications. The outlet of tank shall be provided with strainer (SS-304) for preventing escape of Media from the tank. (One unit upto 10 MLD and two units for more than 10 MLD) Air pipe of GI and Sub water pipe of SS316 material. Volume of the bio media shall not be less than 20% of the volume of the tank. Process air blowers of rotary twin lobe shall be capable of providing adequate oxygen for biological process to maintain minimum DO of 2 mg/lit in MBBR basin and also to keep media In suspension. In addition there would be internal sludge recirculation facility from Aerobic Tank to Anoxic Tank as per standard Design practice.</p>		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
7	<p>Process Air Blowers or aeration Device</p> <p>The Plant should be based on Dissolved Oxygen/Oxygen Uptake Rate Control with VFD driven Aeration Device. The Aeration System shall be designed for 110 % Capacity of the design Air requirement. The aeration Blower/Aeration Device shall be having 100% installed standby unit. Air diffuser shall be of disk/ tubular type, fixed/retrievable. The wetted part of the aeration system of non-corrosive materials such as UPVC.</p> <p>Blowers shall be housed in process air blower building. The minimum area of the building is 20 sq.m, and height of 5m (min). The surface Aerators are not acceptable.</p>		
8	<p>Secondary Clarifier</p> <p>Designing, providing & constructing In RCC (M-30) water tight secondary clarifier as per design guidelines by CPHEEO manual. The settler shall be provided with a scraper mechanism in MS with epoxy painting for collecting the settled solids at the bottom .The sludge will be collected in sludge sump by gravity & supernatant will flow over a weir & will be collected in a launder.</p> <p>Return Sludge pump House - wet well with minimum HRT of 60 minutes upto flow of 80% of return sludge capacity and depth of sludge to be limited to 2m, separate panel room outside wet well, 100% standby pumps.</p>		
9	<p>Raw Sludge Pump House</p> <p>Sump with minimum HRT of 30 minutes & depth of sludge limited to 2 m, 4.5 m minimum diameter, separate panel room outside the wet well.</p>		
	<p>C Tertiary Treatment</p> <p>Coagulant Dosing System/ Flash Mixer + Flocculation + Settling Tank/ Clariflocculator. The design values of the tertiary treatment units are to be considered from CPHEEO Manual on Water Supply & Treatment</p>		
10	<p>Flash Mixer</p> <p>Rapid mixing device design conforming to IS: 7090 of 1985, Detention time 60 sec, velocity gradient 300-400 sec⁻¹ with fans gear and motor assembly as per design.</p>		
11	<p>Coagulant Dosing System</p> <p>Dosing Tanks- 2Nos. With mixing, carrying, dosing with piping arrangement. Chemical Storage area as per data/specifications.</p>		
12	<p>Flocculation Tank</p> <p>RCC Hopper bottom units having slope > 45 Deg as per hydraulic and process design with detention period 20 minutes with flocculator paddles with gear and motor assembly as per design. Flocculator design conforming to IS: 7208-1974 (Type-C). Surface loading rate 8000 litere/hour/sq.m and depth 2.5m using PVC media with supporting arrangement and sludge collecting pipes as per detail specifications.</p>		
13	Filter Feed Sump & Pumps		
14	Pressure Sand Filters for STP capacities less than 10MLD		
15	Rapid Sand Gravity Filters with shed		
15	a. Filter Sand		
	Effective size 0.45 to 0.7 mm, uniformity coefficient not more than 1.7 nor less than 1.3, depth of sand 0.75m, free board 50cm, gravel 0.45m in depth, sand and gravel confirming to IS: 8491 (I)- 77, backwash by air wash (if specified) and hard wash by water, standard appurtenances (to be specified), rate of flow controller, filter gauge, sand expansion gauge, etc.		
15	<p>Wash Water Tank</p> <p>Wash Water tanks of capacity equal to 2% of designed quantity of filtered water in a day (+) 10% with 8 to 10 Mtr. Head (as specified)</p>		
15	<p>Wash Water Pumps</p> <p>Wash Water Pumps with 100% Standby</p>		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
15	Air Blowers		
16	Valves/Gates Inlet, outlet, wash water inlet- outlet and all types and sizes of valves/gates as per design of specified make/brand.		
16	All types gauges and meters required for filter operations and backwashing etc.		
16	The filtration system could also be well tested cloth media disk		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
D	DISINFECTION		
16	<p>Chlorine Contact Tank</p> <p>Designing, providing and constructing chlorine contact tank of adequate capacity to deal with average flow. The CCT shall have baffle walls for enhancing mixing of chlorine. One unit of two compartments, contact time 30 minutes of average flow to achieve 99.99% reduction in coliform. Chlorine dosage shall be minimum 5 ppm provision including designing, providing & constructing water supply system for chlorination, chemicals preparation, domestic use, gardening etc. complete.</p>		
17	<p>Chlorinator & Chlorinator Room / Tonner Room</p> <p>Designing, providing and constructing vacuum type chlorinators having adequate capacity for dosage of adequate chlorine to ensure 99.99% coliform reduction as per obligatory provisions detailed specifications with necessary provision of having chlorinator room of adequate size. The chlorinator (min. 1W+1SB) equipment shall include chlorine cylinders, tonners, piping, valves, measuring controlling equipments, safety devices, lifting equipment, chlorine booster pumps (min. 1W+1SB) etc. complete as per IS-10553 (Part-II). The tonner room should have min. 3 MT capacity crane for loading & unloading facility, neutralization pit. Tonner storage should be distinctly isolated and should have min. storage space for 15 days as per the detailed specifications & as per gas law & factory act shall be provided. Chlorination room of minimum 25 m² area shall be provided. All other matching amenities shall be provided, 5 MT gantry rail shall be provided for full length of tonner room a 6 m Ht from level of tonner room with outlet.</p>		
18	Sludge treatment		
18	<p>Gravity Sludge Thickener</p> <p>Solids loading rate of 25-35 kg/m²/day. Designing, providing & constructing watertight of sludge thickener-gravity type (picket fence) in RCC (M-30) with inlet & outlet pipes, central feed well, sludge it & sludge removal arrangement, grouting wherever necessary with walkway all around of 1.20m with GI pipe railing interconnecting CI pipes all complete as per specifications, having bottom slope 1:6 & min. 4.5m SWD with necessary fixed bridge scraper arrangement as per detailed specifications & necessary inlet & outlet arrangement. All other arrangement as per detailed specifications. (One unit upto 10 MLD and two units for more than 10 MLD). Min sludge concentration in thickened sludge shall be 5%.</p>		
18	<p>Sludge Holding Sump</p> <p>Minimum HRT of 4 hours, Designing, providing and constructing of sludge holding sump and pump for discharging sludge to centrifuge using CI pipe complete as per detailed specification. Agitators/Mixers shall be provided in sump for keeping sludge in suspension. The pump shall be of Helical Screw pumps, 100% standby.</p>		
18	<p>Sludge Dewatering Equipment Room with Centrifuge or belt press or screw press or Fliter Press or Combi-machine or Bag Type:</p> <p>Designing, providing constructing and installing including foundation etc. Sentrifuge or belt press or screw press or Filter Press or Combi-machine or bag type to handle the sludge flow as per specifications, with appropriate inlet and outlet provision, sludge dewatering unit drain etc. Complete as per specifications.</p>		
18	Sludge/ filtrate Pumps		
	a) Capacity to pump sludge in 1 hour with 100% standby (20-25% efficiency, "C" value fo be adopted 50% than that of water to calculate friction loss)		
	b) Filtrate from thickening and dewatering to be conveyed only by PVC10 kg/sq.cm.		
19	Valves/gates		
	Inlet, outlet, wash water Inlet - only CI D/F and minimum size of 200 mm as per approved make/brand.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
20	All types gauges and meters required for O & M as per design of specified make/brand.		
21	Dewatering during entire work using any technique.		
22	Necessary Instrumentation and control as per specifications		
23	Outfall Sewer It shall be designed for peak flows. Designing, providing, constructing appropriate sized outfall sewer of RCC (NP2 class) pipe to discharge treated effluent to the local water body/nallah at the point shown on the drawing including necessary chambers for inspection & cleaning including excavation, dewatering, refilling including appropriate bedding.		
24	Piping work Including Valves and Gates Providing, laying and Jointing plant pipes as per specifications, including Interconnection bypass arrangement etc. of treatment units including adequate numbers of manhole chambers. The item includes excavations, refilling & hydraulic testing of pipes, valves, gates, accessories & cost of jointing materials. The item includes required channels with gates or interconnection of units, etc. for all units as directed etc. complete as per detailed specifications. Sludge pipes shall be sized for maintaining minimum velocity for prevention of solids.		
25	Administrative Building cum Laboratory (G+1): Designing, providing and constructing administrative building, office cum Laboratory including stores. This shall be a building having appropriate carpet area and ground floor and at first floor complete as per specifications including necessary excavation, foundation in RCC M 20 framed structure B. B masonry (11- class in C.M. 1:6) 20 mm cement plaster in C.M 1:3 inside and outside painting. Aluminium door and window with glass panels, mosaic tile flooring and skirting and all other allied items, fixtures fastening electrification arrangement water supply arrangement etc complete.		
	a) Ground floor to accommodate administrative office & laboratory		
	b) First floor to accommodate Office of the Plant In Charge, air monitoring equipments to measure wind direction & speed, hydrogen sulphide		
25	Laboratory equipments		
25	Furniture and Office Equipments, Office furniture (Make: Godrej/ or similar approved quality) as per specifications		
25	Ventilation and Safety equipments as per specifications		
25	Sanitary blocks		
26	Maintenance Workshop of size as per specification		
27	Air blower Building with Air Blowers: Capable of delivering adequate free air for aeration device with suitable pressure (100% standby).		
28	MCC Room of minimum 9 m x 6 m dear inside with safety measures, approval of various statutory/ central/ foreign authority as applicable		
29	Electric Installation: Both internal and external including entire plant area as per technical specifications. DG set shall be provided for min. 50% of electrical load on average flow condition. DG room shall be provided. Instrumentation shall be provided in the plant which includes level sensors, DO sensor, residual chlorine analyzer, pressure gauges, flow meters, level switches, pressure indicating and temperature transmitters, alarms, etc. Maintenance workshop of size 5m x 4m x 3.5m shall be provided.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
30	General Infrastructure Development: Scope also includes, Designing, providing and constructing general infrastructure development such as internal roads of minimum 6 mtr wide, compound wall for STP site, internal street and building lightings, pathways of minimum 1 m wide to access all STP units and Entrance Gate in MS fabrication, etc. all complete as per specifications and directed by engineering In charge.		
31	Internal roads Asphalt road (Minimum 4.5 m) to connect all units from main gate of plot.		
32	Compound Wall as per the plant layout, long the boundary of STP site (considering plant layout for intermediate and ultimate build out capacity and 33% landscaping area).		
33	Green Belt (33% landscaping area) as per specification		
Sl No	Capacity of Plant (MLD) (MBBR Technology)		Rate per MLD (Rs. In Lakhs)
1	2 MLD treatment plant		188.81
2	3 MLD treatment plant		163.64
3	5 MLD treatment plant		134.87
4	10 MLD treatment plant		114.19
5	15 MLD treatment plant		94.91
6	20 MLD treatment plant		89.91
	NOTES: 1.Fine screens (SS 316) are of mechanically cleaned type for working unit and manual bar screen type (SS 316) for standby unit 2.For chemical precipitation, Flash mixing Tank and Flocculation Chamber are optional. The design values of the coagulation systems are to be considered from CPHEEO Manual on Water Supply & Treatment 3.Upto 5 MLD Capacity STP chlorination may be done by using sodium hypochlorite solution. Above 5 MLD capacity gas chlortnator to be provided. 4.Gravity sludge thickener is not provided upto 3 MLD capacity STP. Sludge will be collected into sludge sump & pumped directly to sludge dewatering system. 5. Filter press or Bag Type dewatering can be provided for STP's upto 5MLD capacity. 6.Chlorinator room not provided for STP upto 3 MLD. 7.Boundary wall, gate, internal plant roads, storm water drains, site clearance, landscaping is considered in scope. Plant road shell be 4.5m wide.		
	8.All water retaining structures are in M-30 grade of concrete. 9.Lead for excavation is considered as 500m. 10.Grade of steel used is Fe 415. 11.Peak factor considered for design for plants 2 to 5 MLD is 2.5, 6 to 20 MLD is 2.25. 12.The rates mentioned above STP are considering sites falling in Seismic Zone II. For sites falling in seismic zone III shall be increased by 5%. 13.Structural design criteria approved by technical committee shall be applicable for design. 14.Hydraulic design of the plant shall be considered with free fall discharge of treated sewage to local water body (above HFL). Hydraulic loss shall be worked out for peak flow condition and shall not exceed 4.5 m in any circumstances unless otherwise site specific condition and approved by technical committee. 15.The cost of sewage pumping station and rising main is not included. 16.Makes of equipment shall be approved by PHMED.		
	17.The rates includes excavation, refilling and throwing away extra stuff as directed by the Engineer in Charge. 18.All other details shall be as per design criteria and detail specifications.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
2	Sequential Batch Reactor Technology (SBR Technology)		
A	Designing, Providing, Constructing, Hydraulic Testing Commissioning and giving satisfactory trails of STP Consisting of inlet chamber, Screen Chamber, Detritus Tanks , Distribution chamber and SBR Basins, Sludge Sump, Chlorine contact tank, chlorinator room/shed, Sludge dewatering equipment, necessary piping work with required valves, gates ,drains, pathways, Administration Block cum Laboratory, Laboratory equipments, internal Roads, Pathways, compound wall, tools and plants of complete as turnkey job with all involved civil, electrical, instrumentation and mechanical works inclusive of following items, units as per detailed specification for civil, electrical and mechanical components with all duties and taxes etc. complete to achieve BOD < 10ppm, TSS < 10ppm, Biological TN < 10ppm & PO4 < 2ppm to get recyclable quality of water for industrial /agricultural purposes. The Coagulant Dosing system shall be provided as an optional / backup. All units shall be interconnected with administration building by suitable or RCC overhead walkways.		
	UNITS INCLUDED		
A	Primary Treatment		
1	Inlet Chamber: Designing, Providing, and constructing RCC (M.30) inlet chamber for the peak flow as per CPHEEO Manual including necessary excavation in all types of strata including walkway all around the periphery. Inlet chamber having minimum HRT of 60 seconds, each compartment will have steel gates with extension rod, head stock operating wheels, GI pipe railing etc., the work includes providing and making necessary arrangements to connect the flow to screen chamber by approach channel as directed and as per specifications.		
2	Screen Chamber: Designing, Providing Constructing, Testing and commissioning of Two approach channels (min 4.5 Long), mechanically cleaned bar rack screen (6 mm clear opening 10 mm the flats) Escalator screens with 100 standby manual fine screen (10 mm clear opening) MOC: SS316, CI sluice gates (one before screen & one after screen), designed as per CPHEEO manual in RCC (M-30) including inlet pipe/channel from inlet chamber outlet pipe/channel to detritus tank, free board of 0.5 m minimum, RCC walkway 1.2 m wide with GI pipe railing, RCC stair case of 1.2 m width from GL to screen chamber with operating platform and belt conveyor system incl. panel & push bottom switch at local level as well as MCC room for two way control.		
3	Grit Chamber: Designing, providing and constructing grit Chamber- Detritus or vortex type or aerated type (100% standby), mechanically operated in RCC (M 30) capable of removing 100% of 0.2 mm size particle and above, having specific gravity 2.40, HRT of 1 minute at average flow (Detritus Tank), horizontal velocity not exceeding 0.30 m/sac (Detritus Tank) at peak flow with suitable arrangement of separation of grit from putrescible solids. Inlet and outlet channels of required sizes as may be required to connect the flow to connecting unit etc. Complete including hydraulic testing for water tightness of structure having minimum FB of 0.3 m, wash out arrangement to Grit chamber and platform 1.2 m wide RCC walkway with GI pipe handling shall be provided. A pit for collecting grit conveyed by conveyor shall be provided. It should be suitable to handle the grit for carting. All arrangements shall be as detailed specifications and as directed.		
4	Parshall flume having head loss limited to 0.15 m with necessary flow measuring devices/meter consisting of digital indicator In LPS & MLD		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
B	SECONDARY TREATMENT		
5	<p>SBR Basins: Designing, providing and constructing in RCC (M 30), CASP basins for biological removal of BOD along with built-in nitrification-de-nitrification, Bio- P removal In compartments to handle combine flow of 1 DWF Incoming flow and recirculation flow Including construction of selector compartments and providing 1.2 m wide clear approach walkways, expansion joints wherever necessary, including foundations etc as per specifications. Peak factor shall be 2, F/M ratio shall be 0.15, complete with air blowers, fine diffused aeration grid with Retrievable type installation equipment and FB 0.5 m and SWD as required. DO level in basin to be minimum 2 mg/l complete with "Oxygen Uptake Rate" control system and all related instruments, Stainless steel decanters and automation works. MLSS concentrations shall be 3000 - 5000 mg/l or more, MLVSS to MLSS ratio to be 0.6-0.7. HRT shall be min. 13.5 hrs and SRT suitable for fully digested sludge. SBR process shall have independent steps like Fill & aeration, Settling (Sedimentation/ clarification), Decanting without overlapping each other. Since it is complete batch process, filling will not be acceptable during settling or Decanting. Minimum decanting depth shall not be less than 2.20 m. The system should work on a gravity influent condition. No Influent/effluent equalization tanks or flash filling is accepted. It should have all other related works.</p>		
	<p>SRT shall be suitably provided to achieve N, P removal. Since these are the technology driven plants, bidders has to adopt well established, well tested and proven, IIT/ NEERI evaluated/approved SBR process /specifications and at least 50 % of the tendered capacity has been in successfully operating condition as per the outlet criteria mentioned in above in Government organizations of India since last two years Including one year of standard defect liability period. Bidder has to tie-up with the well qualified technology provider who having experience in India at least 50 % of the tendered capacity with 1 year O & M experience in government organizations of India.</p>		
6	<p>Process Air Blowers or Aspirator Aerator: The Plant should be based on Dissolved Oxygen/Oxygen Uptake Rate Control with VFD driven Aeration Device.The Aeration System shall be designed for 110 % Capacity of the design Air requirement. The aeration Blower/Aeration Device shall be having 100% Installed standby unit. Air diffuser shall be of disk/ tubular type, retrievable. The wetted part of the aeration system of non-corrosive materials such as UPVC. Blowers shall be housed in process air blower building. The minimum area of the building is 20 sq.m. and height of 5m (min).</p>		
7	<p>Raw sludge pump house: Raw Sludge Sump minimum HRT of 30 minutes & depth of sludge limited to 2 m, 4.5 m minimum diameter, separate panel room outside the wet well.</p>		
C	DISINFECTION		
8	<p>Chlorine Contact Tank: Designing providing and constructing chlorine contact chamber of adequate capacity to deal with 1 DWF average flow. The chlorine contact tank should be of 30 min capacity, during average flow to achieve 99.99 % coliform reduction. Chlorine dose shall be maintained as per standard provisions, including designing, providing and constructing water supply, provision for chlorination, including providing dewatering and by pass arrangement jointing to final effluent mains and outlet weir etc complete. The effluent quality should match with the standards laid down by TSPCB and as per obligatory provision and as detailed specification and as directed by Engineer In - Charge.</p>		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
9	<p>Chlorinator and Chlorinator Room/Tonner Room:</p> <p>Designing, providing and constructing chlorinators vacuum type 2 Nos, (1 working + 1 stand by) with auto switchover facility and having capacity for dosage of adequate chlorine to ensure 99.99 % coliform reduction as per obligatory provisions and detailed specifications with necessary provision of having chlorinator room of adequate size. The chlorinator equipment shall include cost of chlorine cylinders/tonner, piping, valves, measuring and controlling equipment, safety devices , lifting equipment, etc. complete as per IS -10553 (part II) 1982. The tonner room should have minimum 3 MT capacity Hoist for loading and unloading facility. Tonner storage should be distinctly isolated and should be for minimum storage space as directed in the design specification and as per gas laws 1981 and factory act shall be provided. All other matching amenities shall be provided, Minimum 5 MT gantry rail shall be provided for full length of tonner room at 6 m height from level of tonner room, with outlet chamber and treated effluent outlet channel etc complete as per detailed specification.</p>		
10	Sludge treatment		
10	<p>Sludge Thickner with equipments:</p> <p>Solids loading rate of 25-35 kg/m²/day, Designing, providing & constructing watertight of sludge thickener-gravity type (picket fence) in RCC (M-30) with inlet & outlet pipes, central feed well, sludge it & sludge removal arrangement, grouting wherever necessary with walkway all around of 1.20m with GI pipe railing interconnecting CI pipes all complete as per specifications, having bottom slope 1:6 & min. 4.5m SWD with necessary fixed bridge scraper arrangement as per detailed specifications & necessary inlet & outlet arrangement. All other arrangement as per detailed specifications. (One unit upto 10 MLD and two units for more than 10 MLD). Min sludge concentration in thickened sludge shall be 4%.</p>		
10	<p>Sludge Holding Sump:</p> <p>Designing, providing and constructing of sludge sump and pump house of appropriate size with pumps, ceiling height minimum 6 m over sump for discharging sludge to centrifuge using CI pipe complete as per detailed specification.</p>		
10	<p>Sludge Dewatering Equipment Room with Centrifuge or belt press or screw press or Filter Press or Combi-machine or Bag Type:</p> <p>Designing, providing constructing and Installing Including foundation etc. Sentrifuge or belt press or screw press or Filter Press or Combi-machine or bag Type to handle the sludge flow as per specifications, with appropriate inlet and outlet provision, sludge dewatering unit drain etc. Complete as per specifications.</p>		
10	Sludge/ filtrate Pumps		
	a) Capacity to pump sludge In 1 hour with 100% standby (20-25% efficiency, "C" value to be adopted 50% than that of water to calculate friction loss)		
	b) Filtrate from thickening and dewatering to be conveyed only by PVC10 kg/sq.cm.		
11	Valves/gates		
	Inlet, outlet wash water inlet - only CI D/F and minimum size of 200 mm as per approved make/brand.		
12	All types gauges and meters required for O & M as per design of specified make/brand.		
13	Necessary Instrumentation and control as per specifications		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
14	<p>Outfall Sewer: Designing, providing and constructing appropriate outfall sewer of RCC NP2 pipe, to discharge treated effluent from outlet chamber after chlorination tank to the disposal point at outlet battery limit of STP including necessary chambers for inspection and cleaning including necessary excavation, dewatering, refilling, concrete encasing/bedding concrete steps to reach the disposal/ nallah bed level, pitching and energy dissipation chamber in nallah portion etc. complete up to 50 m length RCC NP2 pipe line and Including all above items.</p>		
15	By pass arrangement RCC pipes with manholes and C.I. sluice gates (MH to be raised above TWL of adjacent unit)		
16	<p>Piping work In CI-LA Class Including Sluice valves, Reflux Valves, MS Gates: Providing laying and Jointing pipes other than those already Included in the above items for interconnection by - pass drains etc. of all units including adequate numbers of manhole chambers. The item includes excavations, refilling and hydraulic testing of pipes, valves, gates, accessories and cost of jointing materials. The Items Includes required channels with gates for Interconnection of units by pass drains etc for all units as directed etc complete as per detailed specifications.</p>		
17	<p>Administrative Building cum Laboratory (G+1): Designing, providing and constructing administrative building, office cum Laboratory including stores. This shall be a building having appropriate carpet area and ground floor and at first floor complete as per specifications including necessary excavation, foundation in RCC M 20 framed structure B. B masonry (11- class in C.M. 1:6) 20 mm cement plaster in C.M 1:3 inside and outside painting. Aluminium door and window with glass panels, mosaic tile flooring and skirting and all other allied items, fixtures fastening electrification arrangement water supply arrangement etc., complete.</p>		
	a) Ground floor to accommodate administrative office & laboratory		
	b) First floor to accommodate Office of the Plant In Charge, air monitoring equipments to measure wind direction & speed, hydrogen sulphide concentration etc.		
17	<p>Laboratory equipments Laboratory equipment (as per specifications), beautification, telephone and Intercom arrangement and wireless system.</p>		
17	Furniture and Office Equipments, Office furniture (Make: Godrej/ or similar approved quality) as per specifications		
17	Ventilation and Safety equipments as per specifications		
17	<p>Sanitary blocks Carpet area -15 square meter minimum up to 25 MLD and 25 square meter above 25 MLD (or as specified).</p>		
18	Maintenance Workshop of size as per specification		
19	<p>Air blower Building with Air Blowers: Capable of delivering adequate free air for aeration device with suitable pressure (100% standby).</p>		
20	MCC Room of minimum 9 m x 6 m clear inside with safety measures, approvals of various statutory/ central/ foreign authority as applicable		
21	Electric Installation		
21	Both Internal and external including entire plant area (as specified).		
21	Electric Installation - Sub Station Room as per specifications.		
22	DG room with DG sets, as per electric load and specifications (50 % energy requirement).		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
23	General Infrastructure Development: Scope also Includes, Designing, providing and constructing general Infrastructure development such as internal roads of minimum 6 mtr wide, compound wall for STP site, Internal street and building lightings, pathways of minimum 1 m wide to access all STP units and Entrance Gate in MS fabrication, etc. all complete as per specifications and directed by engineering In charge.		
23	Internal roads Asphalt road (Minimum 4.5 m) to connect all units from main gate of plot.		
23	Compound Wall at per the plant layouts, along the boundary of STP site (considering plant layout for Intermediate and ultimate build out capacity and 33% landscaping area).		
23	Green Belt (33% landscaping area) as per specification		
	NOTES: 1. Fins screens (SS 316) are of mechanically cleaned type for working unit and manual bar screen type (SS 316) for standby unit. 2. Upto 5 MLD Capacity STP chlorination may be done by using sodium hypochlorite solution. Above 5 MLD capacity gas chlorinator to be provided. 3. Gravity sludge thickener is not provided upto 3 MLD capacity STP. Sludge will be collected into sludge sump & pumped directly to sludge dewatering system. 4. Filter press or Bag Type dewatering can be provided for STP's upto 5MLD capacity. 5. Chlorinator room not provided for STP upto 3 MLD. 6. Boundary wall, gate, internal plant roads, storm water drains, site clearance, landscaping is considered in scope. Plant road shall be 4.5m wide, 7. All water retaining structures are in M-30 grade of concrete. 8. Lead for excavation is considered as 500m. 9. Grade of steel used is Fe 415. 10. Peak factor considered for design for plants 2 to 5 MLD is 2.5, 6 to 20 MLD is 2.25.		
	11. The rates mentioned above STP are considering sites falling in Seismic Zone II. For sites falling in seismic zone III shall be increased by 5% only. 12. Structural design criteria approved by technical committee shall be applicable for design. 13. Hydraulic design of the plant shall be considered with free fall discharge of treated sewage to local water body (above HFL). Hydraulic loss shall be worked out for peak flow condition and shall not exceed 4.5m in any circumstances unless otherwise site specific condition and approved by technical committee. 14. The cost of sewage pumping station and rising main Is not Included 15. Makes of equipment shall be approved by PH&ME Dept. 16. The rates includes excavation, refilling and throwing away extra stuff as directed by the Engineer in Charge. 17. All other details shall be as per design criteria and detail specifications.		
No	Capacity of Plant in MLD (SBR Technology)	Min.No of Basins	Rate per MLD (Rs. In Lakhs)
1	10MLD treatment plant	2	105.00
2	15MLD treatment plant	2	95.00
3	25MLD treatment plant	4	86.00
4	40MLD treatment plant	4	76.00
5	60MLD treatment plant	4	71.00
6	100MLD treatment plant	6	67.00
7	150MLD treatment plant	6	62.00

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
Water Meters			
Sl. No.	Description		
A	Mechanical Flow meter (Domestic meters)		
1	Supply of magnetically coupled, multijet, inferential type, dry dial class-B water meters (Screwed end) manufactured in accordance with ISO 4064 standards and its latest amendments/IS 779/1994 and its latest amendments and shall have ISI/EEC/MID pattern approval (valid life cycle certificate and IP 68 protection from FCRI, GOI). (Including all Taxes)	Unit	(Rate in Rs.)
	15 mm Dia	Each	1000
	20 mm Dia	Each	1500
2	Installation & fixing cost of water meter	Each	150
B	Electromagnetic flow meter (Bulk flow meters)		
1	Supply, delivery of Electromagnetic flow meter of various sizes as per ISO 9001:2008 manufacturer; Flow meter tube: SS304; Flange:CS DIN PN 10;Liner: Hard rubber suitable for drinking water approval;Measuring Electodes : SS316; Grounding Ring :SS316; Coil Housing: SS304; Junction Box : SS304; Ingress Protection :IP68; Flow transmitter :Microprocessor based; Accuracy :0.5% of measured value for velocities for 0.5 m/sec flow rate and above; Cable between Flow head & Transmitter : 25 Mts; Display: backlit LCD with 8 digit totaliser; Surge Arrestor : To be provided; Power Supply : 230 V AC; SCADA/Web Based Data Acquisition System : Electromagnetic flowmeter should be SCADA/Web Based Compatible; Meter Flow test lab certification from : NABL/FCRI, Flow test lab should have three times better accuracy than the uncertainty/Accuracy of the electromagnetic flowmeters; etc., excluding taxes and duties with 2 years warranty. (Make:Krohne Marshall/ Emerson/Siemens/ Yokowaga/ Endress Hausar)	Unit	(Rate in Rs.)
	100 mm dia	Each	102870
	150 mm dia	Each	113473
	200 mm dia	Each	143061
	250 mm dia	Each	162200
	300 mm dia	Each	194526
	400 mm dia	Each	326719
	450 mm dia	Each	352004
	500 mm dia	Each	385748
	600 mm dia	Each	443313
	700 mm dia	Each	500904
	800 mm dia	Each	597413
	900 mm dia	Each	700812
	1000 mm dia	Each	749938
	1100 mm dia	Each	1242000
	1200 mm dia	Each	1354500

1. S o R FOR R.C.C. PLAIN ENDED PIPES

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003 , Ex-factory, Excluding transportation, taxes & duties				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	140		
	100 mm dia	Metre	163		
	150 mm dia	Metre	195		
	200 mm dia	Metre	234		
	225 mm dia	Metre	254		
	250 mm dia	Metre	271		
	300 mm dia	Metre	388	876	893
	350 mm dia	Metre	485	1104	1123
	400 mm dia	Metre	558	1220	1245
	450 mm dia	Metre	683	1395	1409
	500 mm dia	Metre	748	1513	1726
	600 mm dia	Metre	1114	2265	2657
	700 mm dia	Metre	1424	2799	3531
	800 mm dia	Metre	1740	3689	4599
	900 mm dia	Metre	2178	4616	5720
	1000 mm dia	Metre	2641	5749	7806
	1100 mm dia	Metre	3157	6751	9023
	1200 mm dia	Metre	3758	7937	10536
	1400 mm dia	Metre	5105	10248	14526
	1600 mm dia	Metre	5914	13232	17382
	1800 mm dia	Metre	7752	17466	23218

Note : All the prices are ex-works. Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Plain ended pipes are based on the following raw materials cost.

Cement. Rs.5,500/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.36,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Rods = $(S2 - S1) / 1000 \times Ws$.

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement = $(C2 - C1) / 1000 \times Wc$.

S1 = Rs. 36,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs.5,500/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

Ws = Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc = Weight of Cement required (Kg.) per metre of pipe.

2. S o R FOR R.C.C. COLLARS

Sl.No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Collars conforming to B.I.S. 458/2003 (rate per each collar) suitable for R.C.C. Plain ended pipes including transportation but excluding taxes & duties				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	43		
	100 mm dia	Each	44		
	150 mm dia	Each	47		
	200 mm dia	Each	63		
	225 mm dia	Each	65		
	250 mm dia	Each	73		
	300 mm dia	Each	96	138	138
	350 mm dia	Each	118	170	170
	400 mm dia	Each	132	195	195
	450 mm dia	Each	206	260	260
	500 mm dia	Each	235	309	309
	600 mm dia	Each	319	403	403
	700 mm dia	Each	411	540	540
	800 mm dia	Each	577	688	688
	900 mm dia	Each	691	803	803
	1000 mm dia	Each	809	1002	1002
	1100 mm dia	Each	988	1266	1266
	1200 mm dia	Each	1198	1584	1584
	1400 mm dia	Each	1547	2004	2004
	1600 mm dia	Each	1972	2566	2566
	1800 mm dia	Each	2042	3298	3298

Note: Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost.

Cement. Rs.5,500/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.36,000/- per MT. (including all taxes and freight).

The revised cost of RCC collars due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of M.S.

Rods = $(S2 - S1) / 1000 \times Ws$. R2 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of Cement = $(C2 - C1) / 1000 \times Wc$.

S1 = Rs. 36,000/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,500/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg.) per each collar.

Wc = Weight of Cement required (Kg.) per each collar.

3. S o R FOR R.C.C. S/S PIPES (Non - Pressure)

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 at ex-factory (rate per meter of effective length) Excluding transportation, taxes & duties.				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	175		
	100 mm dia	Metre	198		
	150 mm dia	Metre	234		
	200 mm dia	Metre	286		
	225 mm dia	Metre	313		
	250 mm dia	Metre	334		
	300 mm dia	Metre	469	1117	1182
	350 mm dia	Metre	603	1451	1473
	400 mm dia	Metre	665	1609	1634
	450 mm dia	Metre	827	1775	1787
	500 mm dia	Metre	951	2023	2187
	600 mm dia	Metre	1346	2832	2888
	700 mm dia	Metre	1744	3593	3724
	800 mm dia	Metre	2221	4747	4850
	900 mm dia	Metre	2792	5946	6086
	1000 mm dia	Metre	3382	6749	7245
	1100 mm dia	Metre	3996	7930	8341
	1200 mm dia	Metre	4531	9340	9747
	1400 mm dia	Metre	6424	12359	13768
	1600 mm dia	Metre	7940	15971	16487
	1800 mm dia	Metre	8942	21086	22014

Note: All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply. The above rates of RCC S/S Non-Pressure pipes are based on the following raw materials cost.

Cement. Rs.5,500/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.36,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table +R1+R2

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of M.S. Rods =(S2-S1)/1000 X Ws.

R2= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of Cement =(C2-C1)/1000 X Wc.

S1 = Rs. 36,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs.5,500/- , C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc= Weight of Cement required (Kg.) per metre of pipe.

4. S o R FOR R.C.C. S/S PIPES (Pressure)

Sl.No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 Ex-factory (rate per meter of effective length) Excluding transportation, taxes & duties.				
	Size	Unit	SoR For 2016-17		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Metre	228	258	290
	100 mm dia	Metre	259	306	352
	150 mm dia	Metre	357	456	560
	200 mm dia	Metre	417	593	780
	225 mm dia	Metre	468	673	868
	250 mm dia	Metre	511	720	910
	300 mm dia	Metre	691	1041	1289
	350 mm dia	Metre	862	1444	1864
	400 mm dia	Metre	1021	1910	2456
	450 mm dia	Metre	1095	2260	3030
	500 mm dia	Metre	1448	2461	3447
	600 mm dia	Metre	1983	3663	4788
	700 mm dia	Metre	2629	4812	6095
	800 mm dia	Metre	3292	5734	7393
	900 mm dia	Metre	3975	6759	
	1000 mm dia	Metre	4983	7779	
	1100 mm dia	Metre	5969		
	1200 mm dia	Metre	7039		

Note: All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC S/S Pressure pipes are based on the following raw materials cost.

Cement. Rs.5,500/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.36,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table +R1+R2

R1= Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Rods = $(S2-S1)/1000 \times Ws$.

R2= Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement = $(C2-C1)/1000 \times Wc$.

S1 = Rs. 36,000/-

S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,500/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg) per metre of pipe as per IS: 458 / 2003.

Wc= Weight of Cement required (Kg) per metre of pipe.

5. S o R FOR RUBBER RINGS TO SUIT R.C.C. S/S PIPES

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes & duties. the Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	26		
	100 mm dia	Each	32		
	150 mm dia	Each	57		
	200 mm dia	Each	67		
	225 mm dia	Each	74		
	250 mm dia	Each	83		
	300 mm dia	Each	101	130	130
	350 mm dia	Each	117	155	155
	400 mm dia	Each	129	176	176
	450 mm dia	Each	146	200	200
	500 mm dia	Each	191	229	229
	600 mm dia	Each	251	333	333
	700 mm dia	Each	341	398	398
	800 mm dia	Each	433	483	483
	900 mm dia	Each	542	653	653
	1000 mm dia	Each	634	788	788
	1100 mm dia	Each	762	1009	1009
	1200 mm dia	Each	1220	1268	1268
	1400 mm dia	Each	1342	1395	1395
	1600 mm dia	Each	1671	1703	1703
	1800 mm dia	Each	2081	2175	2175
2	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes & duties. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.				
	Size		P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Each	26	26	26
	100 mm dia	Each	32	34	34
	150 mm dia	Each	57	57	57
	200 mm dia	Each	67	67	67
	225 mm dia	Each	74	75	77
	250 mm dia	Each	83	85	87
	300 mm dia	Each	101	107	111
	350 mm dia	Each	117	134	146
	400 mm dia	Each	129	176	180

	Size		P1 - Class	P2 - Class	P3 – Class
	450 mm dia	Each	146	202	207
	500 mm dia	Each	191	229	239
	600 mm dia	Each	251	283	288
	700 mm dia	Each	341	374	398
	800 mm dia	Each	433	479	479
	900 mm dia	Each	542	604	
	1000 mm dia	Each	634	729	
	1100 mm dia	Each	762		
	1200 mm dia	Each	950		

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

6. S o R FOR CONVEYANCE OF R.C.C. PLAIN ENDED PIPES

Sl.No.	Description	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	2	3	4	5	6
1	Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per metre) SoR for 2016-17				
		NP - 2 Class		NP - 3 Class & NP - 4 Class	
	80 mm dia	3.30	0.14		
	100 mm dia	4.40	0.14		
	150 mm dia	6.60	0.29		
	200 mm dia	8.80	0.29		
	225 mm dia	9.90	0.44		
	250 mm dia	11.00	0.44		
	300 mm dia	15.40	0.58	42.90	1.18
	350 mm dia	22.00	1.32	46.20	1.32
	400 mm dia	24.20	1.46	55.00	1.76
	450 mm dia	31.90	1.76	59.40	2.05
	500 mm dia	34.10	2.05	64.90	2.05
	600 mm dia	49.50	3.22	97.90	4.54
	700 mm dia	62.70	4.54	108.90	5.28
	800 mm dia	73.70	4.54	130.90	5.28
	900 mm dia	84.70	4.54	171.60	9.96
	1000 mm dia	125.40	9.36	206.80	9.96
	1100 mm dia	137.50	9.36	224.40	10.84
	1200 mm dia	156.20	9.96	250.80	10.84
	1400 mm dia	188.10	9.96	341.00	11.28
	1600 mm dia	217.80	9.96	409.20	11.28
	1800 mm dia	250.80	9.96	545.60	15.82

7. S o R FOR CONVEYANCE OF R.C.C. S/S PIPES

Sl. No.	Description	Rate upto 5 Kms Lead including Loading, unloading & stacking	Rate for every additional 1 KM lead or part thereof.	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	2	3	4	5	6
1	Conveyance of R.C.C. Socket and Spigot pipes on all weather roads including loading, unloading and stacking (per metre of effective length) SoR for 2016-17				
	Size	NP - 2 & P1 Class		NP - 3 & NP - 4 Class	
	80 mm dia	4.40	0.13		
	100 mm dia	4.40	0.26		
	150 mm dia	7.70	0.26		
	200 mm dia	9.90	0.53		
	225 mm dia	11.00	0.53		
	250 mm dia	12.10	1.20		
	300 mm dia	19.80	1.33	50.60	1.60
	350 mm dia	23.10	1.46	55.00	1.86
	400 mm dia	23.10	1.73	68.20	3.47
	450 mm dia	33.00	1.86	74.80	3.47
	500 mm dia	36.30	2.00	82.50	3.73
	600 mm dia	47.30	3.47	111.10	5.32
	700 mm dia	58.30	3.73	149.60	10.52
	800 mm dia	80.30	5.72	177.10	10.52
	900 mm dia	119.90	10.25	204.60	10.52
	1000 mm dia	136.40	10.25	215.60	10.52
	1100 mm dia	154.00	10.52	231.00	10.52
	1200 mm dia	171.60	10.52	258.50	10.78
	1400 mm dia	213.40	10.52	346.50	10.78
	1600 mm dia	253.00	10.78	409.20	11.58
	1800 mm dia	313.50	10.78	545.60	15.84
		P2 - Class		P3 - Class	
	80 mm dia	4.40	0.13	4.40	0.13
	100 mm dia	4.40	0.26	4.40	0.26
	150 mm dia	7.70	0.26	7.70	0.26
	200 mm dia	9.90	0.53	13.20	1.20
	225 mm dia	13.20	1.20	15.40	1.33
	250 mm dia	14.30	1.33	18.70	1.46
	300 mm dia	27.50	1.60	31.90	1.73
	350 mm dia	34.10	1.86	44.00	2.00
	400 mm dia	40.70	2.00	58.30	3.47
	450 mm dia	51.70	3.33	72.60	3.47
	500 mm dia	58.30	3.47	88.00	5.19
	600 mm dia	77.00	3.47	127.60	6.66
	700 mm dia	115.50	7.05	185.90	10.52
	800 mm dia	152.90	9.99	237.60	10.52
	900 mm dia	185.90	10.52		
	1000 mm dia	228.80	10.78		

8. S o R FOR A.C. PIPES

The PH & ME department banned the usage of RCC & AC pipes for water supply works vide Memo no 146/T2/SoR/2014-15/2014 dated 30.06.2014. However ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR for carrying out O&M works, accordingly the following rates are adopted.

Sl.No	Description					
1	Manufacture, Supply of A.C*. Pressure pipes (mazza process) as per BIS No: 1592/2003 as amended from time to time duly marked with BIS mark, including cost of material, incidental handling, loading and packing charges but are exclusive of transportation, unloading, stacking at departmental stores, and excluding excise duty, VAT octroi and other govt. Levies. The pipes shall be tested at factory premises confirming to is code 1592/2003.					
	Size	Unit	SoR For 2016-17			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Rate/Metre	195	214	267	
	100 mm dia	Rate/Metre	257	327	401	
	125 mm dia	Rate/Metre	335	417	524	
	150 mm dia	Rate/Metre	471	587	737	
	200 mm dia	Rate/Metre	779	999	1267	
	250 mm dia	Rate/Metre	987	1282	1605	
	300 mm dia	Rate/Metre	1381	1801	2302	
	350 mm dia	Rate/Metre	1682	2187	2760	
	400 mm dia	Rate/Metre	2186	2862	3552	
	450 mm dia	Rate/Metre	2600	3453	4323	
	500 mm dia	Rate/Metre	3206	4220	5299	
	600 mm dia	Rate/Metre	4560	5959	7592	
	700 mm dia	Rate/Metre	5999	8138	10522	
	750 mm dia	Rate/Metre	6836	9394	12039	
	800 mm dia	Rate/Metre	7822	10643	13659	
	850 mm dia	Rate/Metre	8775	11972	15380	
	900 mm dia	Rate/Metre	9782	13376	17204	
	1000 mm dia	Rate/Metre	12075	16421	21156	
2	Lowering, laying and jointing of AC pressure pipes with ac couplings or CID joints complete with Rubber rings in readymade trenches true to alignment and gradient including filling with water lead upto 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/1972					
	80 mm dia	Rate/Metre	35	35	35	
	100 mm dia	Rate/Metre	52	52	52	
	125 mm dia	Rate/Metre	57	57	57	
	150 mm dia	Rate/Metre	68	68	68	
	200 mm dia	Rate/Metre	89	89	89	
	250 mm dia	Rate/Metre	107	107	107	
	300 mm dia	Rate/Metre	132	132	132	

	350 mm dia	Rate/Metre		224	224	224
	400 mm dia	Rate/Metre		336	336	336
	450 mm dia	Rate/Metre		409	409	409
	500 mm dia	Rate/Metre		520	520	520
	600 mm dia	Rate/Metre		559	559	559
	700 mm dia	Rate/Metre		624	624	624
	750 mm dia	Rate/Metre		694	694	694
	800 mm dia	Rate/Metre		730	730	730
	850 mm dia	Rate/Metre		779	779	779
	900 mm dia	Rate/Metre		850	850	850
	1000 mm dia	Rate/Metre		875	875	875
	<p>1. The above rates of AC Pipes are based on the Cement cost of RS 5,500/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 77,000/- per M.T (Excluding all taxes & Frieght)</p> <p>For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under.</p> <p>$W \times 0.85 \times IC$ Where W = Weight of pipe in Kg's/Rmt IC = Increase/Decrease in cost of cement/Kg</p> <p>For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under :</p> <p>$W \times 0.15 \times IF$ Where : W=: Weight of pipe in Kg's/Rmt IF = Increase /Decrease in cost of fiber/Kg</p>					
Note:	<p>1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process.</p> <p>2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.</p> <p>3)The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate</p>					
2	Transportation of AC pressure pipes at site of work anywhere in Telangana State on motor able roads for full truck loads including transit insurance, unloading, and stacking at site of work etc. Complete (AC Couplings and Rubber rings are to be supplied free of transportation charges).				5% on the basic cost of corresponding AC Pressure pipes.	

*Under any Circumstances the A.C. pipes shall not be procured for laying new water lines, except O&M works.

9. S o R FOR A.C. COUPLINGS

The PH & ME department banned the usage of RCC & AC pipes for water supply works vide Memo no 146/T2/SoR/2014-15/2014 dated 30.06.2014. However ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR for carrying out O&M works, accordingly the following rates are adopted.

Sl.No	Description					
1	2					
1	Manufacture, Supply of A.C* Couplings suitable to A.C* Pressure pipes (mazza process) as per BIS: 1592/2003 excluding cost of rubber rings to suit AC* pressure pipes including cost of material, incidental handling, packing, transportation and unloading at site transit risk, but excluding excise duty, VAT and other govt. Levies and testing of joints as per IS Code.					
	Size	Unit	SoR For 2016-17			
0			Class - 15	Class - 20	Class - 25	
	80 mm dia	Rate/Each	91	98	113	
	100 mm dia	Rate/Each	118	128	153	
	125 mm dia	Rate/Each	148	163	197	
	150 mm dia	Rate/Each	173	217	267	
	200 mm dia	Rate/Each	318	350	445	
	250 mm dia	Rate/Each	372	470	597	
	300 mm dia	Rate/Each	485	630	810	
	350 mm dia	Rate/Each	628	811	1035	
	400 mm dia	Rate/Each	968	1263	1615	
	450 mm dia	Rate/Each	1159	1528	1959	
	500 mm dia	Rate/Each	1381	1846	2356	
	600 mm dia	Rate/Each	1705	2143	2742	
	700 mm dia	Rate/Each	2241	3017	3923	
	750 mm dia	Rate/Each	2528	3456	4460	
	800 mm dia	Rate/Each	2868	3888	5032	
	850 mm dia	Rate/Each	3195	4349	5640	
	900 mm dia	Rate/Each	3535	4835	6278	
	1000 mm dia	Rate/Each	4315	5879	7662	

1. The above rates of AC Coupling are based on the Cement cost of RS.5,500/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 77,000/- per M.T (Excluding all taxes & Frieght)

For any Increase/ Decrease in the rate of cement, the price of AC Coupling per Each shall be increased/decreased as under.

$W \times 0.85 \times IC$ Where W = Weight of Coupling in Kgs/Each, IC = Increase/Decrease in cost of cement/kg. For any increase/decrease in the rate of fiber, the price of AC Coupling per Each shall be increased/Decreased as under :

$W \times 0.15 \times IF$ Where : W=: Weight of Coupling in Kgs/Each, IF = Increase /Decrease in cost of fiber/kg. The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process. The cement rate shall be communicated by the sub-committee of Board of Chief engineers. Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

10. S o R FOR RUBBER RINGS TO SUIT A.C. COUPLINGS

The PH & ME department banned the usage of RCC & AC pipes for water supply works vide Memo no 146/T2/SoR/2014-15/2014 dated 30.06.2014. However ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR for carrying out O&M works, accordingly the following rates are adopted.

Sl. No.	Description					
1	2					
1	Schedule of rate for supply of Rubber rings manufactured as per BIS: 5382/1988 with BIS Mark embossed per each set suitable for A.C*. Couplings including cost of material, incidental, handling, packing, transportation and unloading at site transit risk etc., but excluding VAT. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988					
	Size	Unit	SoR For 2016-17			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Each Set	68	68	68	
	100 mm dia	Each Set	83	83	83	
	125 mm dia	Each Set	108	108	108	
	150 mm dia	Each Set	136	136	136	
	200 mm dia	Each Set	142	142	142	
	250 mm dia	Each Set	164	164	164	
	300 mm dia	Each Set	164	164	164	
	350 mm dia	Each Set	186	186	186	
	400 mm dia	Each Set	228	228	228	
	450 mm dia	Each Set	267	267	267	
	500 mm dia	Each Set	309	309	309	
	600 mm dia	Each Set	350	350	350	
	700 mm dia	Each Set	727	727	727	
	750 mm dia	Each Set	755	755	755	
	800 mm dia	Each Set	811	811	811	
	850 mm dia	Each Set	904	904	904	
	900 mm dia	Each Set	950	950	950	
	1000 mm dia	Each Set	1053	1053	1053	

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2016-17

Sl.No.	Description							
1	2							
1	Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes & duties., for the following field test pressures.(manufacture shall design the pipes as per the IS Code 784-2001)							
	Size	Unit	SoR For 2016-17.					
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			6 Kg/cm ²	8 Kg/cm ²	10 Kg/cm ²	12 Kg/cm ²	14 Kg/cm ²	16 Kg/cm ²
	350 mm dia	Metre	2831	2841	2853	2864	2921	3021
	400 mm dia	Metre	3044	3066	3098	3135	3191	3237
	450 mm dia	Metre	3240	3254	3288	3348	3431	3503
	500 mm dia	Metre	3507	3519	3543	3616	3688	3794
	600 mm dia	Metre	4028	4053	4090	4211	4342	4470
	700 mm dia	Metre	4720	4780	4890	5020	5160	5350
	800 mm dia	Metre	5720	5840	5970	6140	6320	6597
	900 mm dia	Metre	6560	6720	6890	7170	7390	7910
	1000 mm dia	Metre	7730	7940	8160	8380	8650	9250
	1100 mm dia	Metre	8660	8900	9170	9440	9710	10460
	1200 mm dia	Metre	9730	10050	10350	10560	11110	12050
	1300 mm dia	Metre	11020	11380	11740	12100	13160	13600
	1400 mm dia	Metre	12750	13170	13600	14310	15200	15850
	1500 mm dia	Metre	14390	14890	15360	16640	17220	19230
	1600 mm dia	Metre	16190	16730	17270	18780	19460	21400
	1700 mm dia	Metre	17370	18000	18620	20210	22400	23400
	1800 mm dia	Metre	19203	20399	21458	23220	24070	26660
	1900 mm dia	Metre	20514	21614	23444	24764	26880	28920
	2000 mm dia	Metre	22540	23915	25110	27350	30110	31290
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of rubber rings, cost of transportation of water and emptying pipe line after completion of field testing etc.							
	350 mm dia	Metre	213	213	213	213	213	213
	400 mm dia	Metre	230	230	230	230	230	230

	450 mm dia	Metre	266	266	266	266	266	266
	500 mm dia	Metre	283	283	283	283	283	283
	600 mm dia	Metre	348	348	348	348	348	348
	700 mm dia	Metre	408	408	408	408	408	408
	800 mm dia	Metre	462	462	462	462	462	462
	900 mm dia	Metre	506	506	506	506	506	506
	1000 MM IA	Metre	584	584	584	584	584	584
	1100 MM IA	Metre	656	656	656	656	656	656
	1200 MMDIA	Metre	727	727	727	727	727	727
	1300 mm dia	Metre	824	824	824	824	824	824
	1400 mm dia	Metre	932	932	932	932	932	932
	1500 mm dia	Metre	1011	1011	1011	1011	1011	1011
	1600 mm dia	Metre	1133	1133	1133	1133	1133	1133
	1700 mm dia	Metre	1233	1233	1233	1233	1233	1233
	1800 mm dia	Metre	1305	1305	1305	1305	1305	1305
	1900 mm dia	Metre	1378	1378	1378	1378	1378	1378
	2000 mm dia	Metre	1450	1450	1450	1450	1450	1450
3	Conveyance of pre-stressed (Non-cylinder) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes.(minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)							
	350 mm dia	PerKM/M	1.47	1.47	1.47	1.47	1.47	1.47
	400 mm dia	PerKM/M	1.47	1.47	1.47	1.47	1.47	1.47
	450 mm dia	PerKM/M	1.79	1.79	1.79	1.79	1.79	1.79
	500 mm dia	PerKM/M	1.89	1.89	1.89	1.89	1.89	1.89
	600 mm dia	PerKM/M	2.10	2.10	2.10	2.10	2.10	2.10
	700 mm dia	PerKM/M	3.47	3.47	3.47	3.47	3.47	3.47
	800 mm dia	PerKM/M	3.47	3.47	3.47	3.47	3.47	3.47
	900 mm dia	PerKM/M	3.47	3.47	3.47	3.47	3.47	3.47
	1000 mm dia	PerKM/M	5.57	5.57	5.57	5.57	5.57	5.57
	1100 mm dia	PerKM/M	5.57	5.57	5.57	5.57	5.57	5.57

	1200 mm dia	PerKM/M	10.61	10.61	10.61	10.61	10.61	10.61
	1300 mm dia	PerKM/M	10.71	10.71	10.71	10.71	10.71	10.71
	1400 mm dia	PerKM/M	10.71	10.71	10.71	10.71	10.71	10.71
	1500 mm dia	PerKM/M	10.71	10.71	10.71	10.71	10.71	10.71
	1600 mm dia	PerKM/M	11.97	11.97	11.97	11.97	11.97	11.97
	1700 mm dia	PerKM/M	11.97	11.97	11.97	11.97	11.97	11.97
	1800 mm dia	PerKM/M	12.29	12.29	12.29	12.29	12.29	12.29
	1900 mm dia	PerKM/M	12.81	12.81	12.81	12.81	12.81	12.81
	2000 mm dia	PerKM/M	12.81	12.81	12.81	12.81	12.81	12.81
4	Cost of Machine End pair (Socket +Spigot) with 100mm length MS Barrel on each side of Socket and Spigot for providing M.S Specials on PSC pipelines excluding cost of M.S Special including cost and conveyance to site etc., complete.							
	350 mm dia	Per Pair	11012	11012	11012	11012	11012	11012
	400 mm dia	Per Pair	12632	12632	12632	12632	12632	12632
	450 mm dia	Per Pair	14250	14250	14250	14250	14250	14250
	500 mm dia	Per Pair	15870	15870	15870	15870	15870	15870
	600 mm dia	Per Pair	19045	19045	19045	19045	19045	19045
	700 mm dia	Per Pair	22283	22283	22283	22283	22283	22283
	800 mm dia	Per Pair	25522	25522	25522	25522	25522	25522
	900 mm dia	Per Pair	28760	28760	28760	28760	28760	28760
	1000 mm dia	Per Pair	31740	31740	31740	31740	31740	31740
	1100 mm dia	Per Pair	34979	34979	34979	34979	34979	34979
	1200 mm dia	Per Pair	38218	38218	38218	38218	38218	38218
	1300 mm dia	Per Pair	41198	41198	41198	41198	41198	41198
	1400 mm dia	Per Pair	48582	48582	48582	48582	48582	48582
	1500 mm dia	Per Pair	57003	57003	57003	57003	57003	57003
	1600 mm dia	Per Pair	63481	63481	63481	63481	63481	63481

	1700 mm dia	Per Pair	71231	71231	71231	71231	71231	71231
	1800 mm dia	Per Pair	81407	81407	81407	81407	81407	81407
	1900 mm dia	Per Pair	94126	94126	94126	94126	94126	94126
	2000 mm dia	Per Pair	113206	113206	113206	113206	113206	113206
5	Cost of M.S Flanges including cost of bolts, nuts, rubber packing etc., complete and flange thickness confirming to is:7322-1985 and flange dimensions confirming to is:1538-1993 excluding cost of ms specials including cost and conveyance to site, vat etc., complete.							
	Diameter and thickness	Unit	Rate	Diameter and thickness	Unit	Rate		
	80 mm dia x 15 mm thick	Each Flange	740	500mm dia x 20 mm thick	Each Flange	7531		
	100 mm dia x 15 mm thick	Each Flange	1016	600 mm dia x 20 mm thick	Each Flange	9479		
	125 mm dia x 15 mm thick	Each Flange	1220	700 mm dia x 25 mm thick	Each Flange	13407		
	150 mm dia x 15 mm thick	Each Flange	1625	750 mm dia x 25 mm thick	Each Flange	14762		
	200 mm dia x 15 mm thick	Each Flange	2031	800 mm dia x 25 mm thick	Each Flange	16521		
	250 mm dia x 15 mm thick	Each Flange	2641	900 mm dia x 25 mm thick	Each Flange	18959		
	300 mm dia x 15 mm thick	Each Flange	2992	1000 mm dia x 25 mm thick	Each Flange	22344		
	350 mm dia x 18 mm thick	Each Flange	4361	1050 mm dia x 25 mm thick	Each Flange	23672		
	400 mm dia x 18 mm thick	Each Flange	5444	1100 mm dia x 25 mm thick	Each Flange	25594		
	450 mm dia x 18 mm thick	Each Flange	6324	1200 mm dia x 32 mm thick	Each Flange	33991		

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.52,500/-MT (Basic+ CED+ST & freight).
and cement price of Rs.5,500/- per MT (including all taxes and freight)

The rates may be revised depending upon the increase/decrease in the cost of HT wire and cement. as per the following method. The cost of HT wire may be obtained from reputed firms like SAIL/TATA/ SS Ltd. etc.,

Revised Cost = Cost as per the above table +R1+R2.

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of HT Wire =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of Cement =(C2-C1)/1000 X Wc.

H1 = Rs. 52,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,500/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh=Weight of HT Wire required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

The rates for MS flanges are considering landed price of MS Plates of Rs.41,000/- per MT. Price variation to be released on actual weight of flange.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

12. S o R FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2016-17

SI No.	Description										
1	2										
1	Pre-stressed (Cylinder type) concrete pipes conforming to IS 784/2001 @ ex-factory cost of pipes, excluding transportation, laying, jointing, testing, bends, tees, specials, taxes & duties etc.,. For the following field test pressures.(the manufacture shall design the pipes as per the IS Code 784-2001).										
	Size	Unit	SoR For 2016-17								
			4 Kg/cm2	6 Kg/cm2	8 Kg/cm2	10 Kg/cm2	12 Kg/cm2	14 Kg/cm2	16 Kg/cm2	18 Kg/cm2	20 Kg/cm2
	400 mm dia	Meter	5179	5179	5179	5179	5205	5257	5347	5433	5498
	450 mm dia	Meter	5627	5627	5627	5653	5717	5795	5890	5930	5980
	500 mm dia	Meter	6000	6000	6060	6110	6160	6230	6310	6370	6430
	600 mm dia	Meter	6890	6960	7030	7110	7180	7250	7370	7460	7540
	700 mm dia	Meter	7830	7920	8020	8110	8210	8300	8470	8570	8700
	800 mm dia	Meter	9220	9330	9450	9580	9700	9820	10000	10170	10310
	900 mm dia	Meter	10490	10650	10800	10960	11120	11280	11710	11920	12170
	1000 mm dia	Meter	12600	12790	12980	13180	13370	13570	14140	14420	14700
	1100 mm dia	Meter	13990	14220	14460	14690	14930	15160	15860	16170	16520
	1200 mm dia	Meter	15550	15830	16100	16380	16670	16950	17780	18160	18550
	1300 mm dia	Meter	17400	17730	18060	18390	18720	19360	20030	20520	21050
	1400 mm dia	Meter	19530	19940	20360	20820	21650	22170	22950	23160	24060
	1500 mm dia	Meter	22885	23390	23820	24260	25120	25610	26260	27250	27800
	1600 mm dia	Meter	25809	26495	27070	27990	28550	29170	30280	30900	31520
	1700 mm dia	Meter	27782	28530	29090	30140	30770	32100	32800	33510	34230
	1800 mm dia	Meter	30437	31269	32899	33909	34896	36752	38320	39110	39920
	1900 mm dia	Meter	35270	35980	37220	38000	39580	40460	41340	42230	43120
	2000 mm dia	Meter	37220	38520	39380	40250	42010	42980	43960	44940	45940

2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diapher cloth, cost of transportation of water and emptying pipe line after completion of field testing etc.										
	400 mm dia	Meter	449	449	449	449	449	449	449	449	449
	450 mm dia	Meter	528	528	528	528	528	528	528	528	528
	500 mm dia	Meter	575	575	575	575	575	575	575	575	575
	600 mm dia	Meter	673	673	673	673	673	673	673	673	673
	700 mm dia	Meter	767	767	767	767	767	767	767	767	767
	800 mm dia	Meter	880	880	880	880	880	880	880	880	880
	900 mm dia	Meter	992	992	992	992	992	992	992	992	992
	1000 mm dia	Meter	1087	1087	1087	1087	1087	1087	1087	1087	1087
	1100 mm dia	Meter	1232	1232	1232	1232	1232	1232	1232	1232	1232
	1200 mm dia	Meter	1344	1344	1344	1344	1344	1344	1344	1344	1344
	1300 mm dia	Meter	1439	1439	1439	1439	1439	1439	1439	1439	1439
	1400 mm dia	Meter	1584	1584	1584	1584	1584	1584	1584	1584	1584
	1500 mm dia	Meter	1758	1758	1758	1758	1758	1758	1758	1758	1758
	1600 mm dia	Meter	1903	1903	1903	1903	1903	1903	1903	1903	1903
	1700 mm dia	Meter	2143	2143	2143	2143	2143	2143	2143	2143	2143
	1800 mm dia	Meter	2272	2272	2272	2272	2272	2272	2272	2272	2272
1900 mm dia	Meter	2478	2478	2478	2478	2478	2478	2478	2478	2478	
2000 mm dia	Meter	2638	2638	2638	2638	2638	2638	2638	2638	2638	
3	Conveyance of Pre-stressed (Cylinder type) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)										
	400 mm dia	Per KM/M	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
	450 mm dia	Per KM/M	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
	500 mm dia	Per KM/M	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
	600 mm dia	Per KM/M	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	700 mm dia	Per KM/M	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
	800 mm dia	Per KM/M	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
	900 mm dia	Per KM/M	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
1000 mm dia	Per KM/M	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	

1100 mm dia	Per KM/M	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
1200 mm dia	Per KM/M	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
1300 mm dia	Per KM/M	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
1400 mm dia	Per KM/M	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
1500 mm dia	Per KM/M	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
1600 mm dia	Per KM/M	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
1700 mm dia	Per KM/M	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97
1800 mm dia	Per KM/M	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97
1900 mm dia	Per KM/M	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97
2000 mm dia	Per KM/M	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71

Note: The rates of PCCP pipes which were incorporated in the SSR are based on the following raw materials cost.

HT Wire: - Rs.52,500/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.42,500/- (including all taxes & freight)

Cement Cost Rs. 5,500/-per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table +R1+R2+R3.

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of HT Wire =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HR Coil =(R2-R1)/1000 X Wr.

R3= Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =(C2-C1)/1000 X Wc .

H1 = Rs. 52,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 42,500/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,500/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh=Weight of HT Wire required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per meter of pipe.

Wr = Weight of HR Coil required (kg) per metre of pipe.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

13. S o R FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2016-17

Sl. No	Description											
1	Bar Wrapped Steel Cylindrical (BWSC) pipes conforming to IS 15155 - 2002, ex-factory excluding transportation, taxes and duties etc., for bar wrapped steel cylindrical pipes for the following field test pressures.											
	Size	Unit	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			4 -12 Kg/cm ²	14 Kg/cm ²	16 Kg/cm ²	18 Kg/cm ²	20 Kg/cm ²	22 Kg/cm ²	24 Kg/cm ²	26 Kg/cm ²	28 Kg/c m ²	30 Kg/cm ²
	250 mm dia	Meter	2510	2510	2510	2510	2510	2510	2790	2869	2888	3040
	300 mm dia	Meter	2800	2800	2800	2800	2800	2910	3298	3411	3465	3654
	350 mm dia	Meter	3400	3400	3400	3450	3600	3760	3910	4060	4220	4400
	400 mm dia	Meter	3740	3740	3810	4010	4200	4400	4590	4790	5031	5220
	450 mm dia	Meter	4190	4220	4480	4720	4980	5169	5404	5604	5815	6310
	500 mm dia	Meter	4540	4820	5120	5440	5740	6081	6353	6581	7044	7513
	600 mm dia	Meter	5590	5940	6380	6800	7250	7730	8260	8800	9300	9790
	700 mm dia	Meter	6790	7370	7940	8530	9220	9910	10540	11460	12040	12630
	800 mm dia	Meter	8160	8900	9650	10520	11510	12340	13370	14170	15010	15970
	900 mm dia	Meter	9810	10730	11660	12690	13800	15050	16110	17110	18360	19750
	1000 mm dia	Meter	11610	12750	14050	15370	16580	17940	19130	20630	22360	23720
	1100 mm dia	Meter	15150	15450	16830	18380	19880	21460	23350	24830	26700	28580
	1200 mm dia	Meter	16520	17570	19240	21000	22780	24810	27100	29320	31350	33270
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diaher cloth, cost of transportation of water and emptying pipe line after completion of field testing.											
	250 mm dia	Meter	306	306	306	306	306	306	306	306	306	306
	300 mm dia	Meter	360	360	360	360	360	360	360	360	360	360
	350 mm dia	Meter	426	426	426	426	426	426	426	426	426	426
	400 mm dia	Meter	476	476	476	476	476	476	476	476	476	476
	450 mm dia	Meter	476	476	476	476	476	476	476	476	476	476
	500 mm dia	Meter	596	596	596	596	596	596	596	596	596	596
	600 mm dia	Meter	733	733	733	733	733	733	733	733	733	733

	700 mm dia	Meter	854	854	854	854	854	854	854	854	854	854
	800 mm dia	Meter	971	971	971	971	971	971	971	971	971	971
	900 mm dia	Meter	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
	1000 mm dia	Meter	1262	1262	1262	1262	1262	1262	1262	1262	1262	1262
	1100 mm dia	Meter	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483
	1200 mm dia	Meter	1660	1660	1660	1660	1660	1660	1660	1660	1660	1660
3	Conveyance of Bar Wrapped Steel Cylindrical (BWSC) pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)											
	250 mm dia	Per KM/M	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
	300 mm dia	Per KM/M	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
	350 mm dia	Per KM/M	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
	400 mm dia	Per KM/M	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	450 mm dia	Per KM/M	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
	500 mm dia	Per KM/M	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
	600 mm dia	Per KM/M	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
	700 mm dia	Per KM/M	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	800 mm dia	Per KM/M	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
	900 mm dia	Per KM/M	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
	1000 mm dia	Per KM/M	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
	1100 mm dia	Per KM/M	7.64	7.64	7.64	7.64	7.64	7.64	7.64	7.64	7.64	7.64
	1200 mm dia	Per KM/M	10.67	10.67	10.67	10.67	10.67	10.67	10.67	10.67	10.67	10.67

Note: The above rates of BWSC pipes are based on the following raw materials' cost.

HR Plates - Rs.42,500/- per MT (Basic +CED+ST & freight), Wire rods - Rs.36,000/- per MT (Basic +CED+ST & freight)

Cement Cost Rs. 5,500/-per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table +R1+R2+R3.

R1= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of HR Plate =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of wire rods =(W2-W1)/1000 X Ww.

R3= Variation (increase / decrease) in cost (Rs. per metre)due to change in the cost of Cement =(C2-C1)/1000 X Wc .

H1 = Rs. 42,500/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 36,000/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

C1 = Rs. 5,500/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh=Weight of HR Plate required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

Ww = Weight of wire rods required (kg) per metre of pipe.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

14. S o R FOR M.S. PIPES FOR THE YEAR 2016-17

Sl.No.	Description	Unit	Thicknes s in mm	Rate (Rs.)
1	2	3	4	5
1	Manufacture, supply and delivery of M.S Pipes conforming to is 3589/2001 including in lining with cement mortar (1:2) 15mm thick using 4 numbers of 6mm dia M.S.Rings at each end of the pipe and out coating with cement mortar (1:3) 30mm thick by shortering or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labour charges, transportation to anywhere in T.G, but excluding taxes & duties, etc.			
	500 mm dia	Metre	8.00	8312
	500 mm dia	Metre	10.00	9761
	600 mm dia	Metre	8.00	9883
	600 mm dia	Metre	10.00	11607
	700 mm dia	Metre	8.00	11401
	700 mm dia	Metre	10.00	13423
	800 mm dia	Metre	8.00	12916
	800 mm dia	Metre	10.00	15205
	800 mm dia	Metre	12.00	17503
	900 mm dia		8.00	14462
	900 mm dia	Metre	10.00	16985
	900 mm dia	Metre	12.00	19541
	1000 mm dia	Metre	8.00	16044
	1000 mm dia	Metre	10.00	18866
	1000 mm dia	Metre	12.00	21688
	1000 mm dia	Metre	14.00	24478
	1100 mm dia	Metre	10.00	20593
	1100 mm dia	Metre	12.00	23682
	1100 mm dia	Metre	14.00	26771
	1100 mm dia	Metre	16.00	29913
	1200 mm dia	Metre	10.00	22472
	1200 mm dia	Metre	12.00	25828
	1200 mm dia	Metre	14.00	29142
	1200 mm dia	Metre	16.00	32505
	1200 mm dia	Metre	18.00	35860
	1300 mm dia	Metre	10.00	24246
	1300 mm dia	Metre	12.00	27822

Public Health Engineering Items

	1300 mm dia	Metre	14.00	31443
	1300 mm dia	Metre	16.00	35118
	1300 mm dia	Metre	18.00	38742
	1300 mm dia	Metre	20.00	42372
	1400 mm dia	Metre	10.00	26037
	1400 mm dia	Metre	12.00	29924
	1400 mm dia	Metre	14.00	33812
	1400 mm dia	Metre	16.00	37742
	1400 mm dia	Metre	18.00	41639
	1400 mm dia	Metre	20.00	45581
	1400 mm dia	Metre	22.00	49469
	1500 mm dia	Metre	10.00	27851
	1500 mm dia	Metre	12.00	32007
	1500 mm dia	Metre	14.00	36117
	1500 mm dia	Metre	16.00	40272
	1500 mm dia	Metre	18.00	44480
	1500 mm dia	Metre	20.00	48635
	1500 mm dia	Metre	22.00	52893
	1500 mm dia	Metre	24.00	57048
	1600 mm dia	Metre	10.00	29696
	1600 mm dia	Metre	12.00	34064
	1600 mm dia	Metre	14.00	38527
	1600 mm dia	Metre	16.00	42949
	1600 mm dia	Metre	18.00	47378
	1600 mm dia	Metre	20.00	51800
	1600 mm dia	Metre	22.00	56275
	1600 mm dia	Metre	24.00	60791
	1600 mm dia	Metre	26.00	65275
	1700 mm dia	Metre	10.00	31418
	1700 mm dia	Metre	12.00	36147
	1700 mm dia	Metre	14.00	40835
	1700 mm dia	Metre	16.00	45479
	1700 mm dia	Metre	18.00	50262
	1700 mm dia	Metre	20.00	54950
	1700 mm dia	Metre	22.00	59638
	1700 mm dia	Metre	24.00	64428
	1700 mm dia	Metre	26.00	69170
	1700 mm dia	Metre	28.00	73910
	1800 mm dia	Metre	10.00	33295
	1800 mm dia	Metre	12.00	38258
	1800 mm dia	Metre	14.00	43200
	1800 mm dia	Metre	16.00	48155
	1800 mm dia	Metre	18.00	53110
	1800 mm dia	Metre	20.00	58114
	1800 mm dia	Metre	22.00	63122
	1800 mm dia	Metre	24.00	68077

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	1800 mm dia	Metre	26.00	73125
	1800 mm dia	Metre	28.00	78141
	1900 mm dia	Metre	10.00	35075
	1900 mm dia	Metre	12.00	40284
	1900 mm dia	Metre	14.00	45506
	1900 mm dia	Metre	16.00	50715
	1900 mm dia	Metre	18.00	55944
	1900 mm dia	Metre	20.00	61219
	1900 mm dia	Metre	22.00	66481
	1900 mm dia	Metre	24.00	71709
	1900 mm dia	Metre	26.00	77025
	1900 mm dia	Metre	28.00	82300
	2000 mm dia	Metre	10.00	36839
	2000 mm dia	Metre	12.00	42327
	2000 mm dia	Metre	14.00	47811
	2000 mm dia	Metre	16.00	53299
	2000 mm dia	Metre	18.00	58828
	2000 mm dia	Metre	20.00	64316
	2000 mm dia	Metre	22.00	69851
	2000 mm dia	Metre	24.00	75393
	2000 mm dia	Metre	26.00	80922
	2000 mm dia	Metre	28.00	86464
	2000 mm dia	Metre	30.00	92054
	2100 mm dia	Metre	12.00	44425
	2100 mm dia	Metre	14.00	50179
	2100 mm dia	Metre	16.00	55922
	2100 mm dia	Metre	18.00	61685
	2100 mm dia	Metre	20.00	67479
	2100 mm dia	Metre	22.00	73275
	2100 mm dia	Metre	24.00	79082
	2100 mm dia	Metre	26.00	84886
	2100 mm dia	Metre	28.00	90694
	2100 mm dia	Metre	30.00	96542
	2100 mm dia	Metre	32.00	102391
	2100 mm dia	Metre	34.00	108260
	2200 mm dia	Metre	12.00	46467
	2200 mm dia	Metre	14.00	52475
	2200 mm dia	Metre	16.00	58504
	2200 mm dia	Metre	18.00	64565
	2200 mm dia	Metre	20.00	70627
	2200 mm dia	Metre	22.00	76648
	2200 mm dia	Metre	24.00	82718
	2200 mm dia	Metre	26.00	88834
	2200 mm dia	Metre	28.00	94855
	2200 mm dia	Metre	30.00	100970
	2200 mm dia	Metre	32.00	107093
	2200 mm dia	Metre	34.00	113262

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	2200 mm dia	Metre	36.00	119336
	2300 mm dia	Metre	12.00	48528
	2300 mm dia	Metre	14.00	54804
	2300 mm dia	Metre	16.00	61128
	2300 mm dia	Metre	18.00	67456
	2300 mm dia	Metre	20.00	73752
	2300 mm dia	Metre	22.00	80080
	2300 mm dia	Metre	24.00	86409
	2300 mm dia	Metre	26.00	92791
	2300 mm dia	Metre	28.00	99086
	2300 mm dia	Metre	30.00	105468
	2300 mm dia	Metre	32.00	111850
	2300 mm dia	Metre	34.00	118285
	2300 mm dia	Metre	36.00	124676
	2400 mm dia	Metre	12.00	50554
	2400 mm dia	Metre	14.00	57094
	2400 mm dia	Metre	16.00	63649
	2400 mm dia	Metre	18.00	70303
	2400 mm dia	Metre	20.00	76845
	2400 mm dia	Metre	22.00	83440
	2400 mm dia	Metre	24.00	90097
	2400 mm dia	Metre	26.00	96692
	2400 mm dia	Metre	28.00	103300
	2400 mm dia	Metre	30.00	109895
	2400 mm dia	Metre	32.00	116551
	2400 mm dia	Metre	34.00	123253
	2400 mm dia	Metre	36.00	129900
	2500 mm dia	Metre	14.00	59476
	2500 mm dia	Metre	16.00	66284
	2500 mm dia	Metre	18.00	73146
	2500 mm dia	Metre	20.00	80008
	2500 mm dia	Metre	22.00	86927
	2500 mm dia	Metre	24.00	93789
	2500 mm dia	Metre	26.00	100651
	2500 mm dia	Metre	28.00	107566
	2500 mm dia	Metre	30.00	114394
	2500 mm dia	Metre	32.00	121309
	2500 mm dia	Metre	34.00	128276
	2500 mm dia	Metre	36.00	135191
	2600 mm dia	Metre	14.00	61822
	2600 mm dia	Metre	16.00	68897
	2600 mm dia	Metre	18.00	75980
	2600 mm dia	Metre	20.00	83108
	2600 mm dia	Metre	22.00	90237
	2600 mm dia	Metre	24.00	97415
	2600 mm dia	Metre	26.00	104551
	2600 mm dia	Metre	28.00	111733

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	2600 mm dia	Metre	30.00	118861
	2600 mm dia	Metre	32.00	126041
	2600 mm dia	Metre	34.00	133231
	2600 mm dia	Metre	36.00	140465
	2600 mm dia	Metre	38.00	147647
	2600 mm dia	Metre	40.00	154882
	2600 mm dia	Metre	42.00	162125
	2700 mm dia	Metre	18.00	78885
	2700 mm dia	Metre	20.00	86226
	2700 mm dia	Metre	22.00	93621
	2700 mm dia	Metre	24.00	101024
	2700 mm dia	Metre	26.00	108459
	2700 mm dia	Metre	28.00	115959
	2700 mm dia	Metre	30.00	123405
	2700 mm dia	Metre	32.00	130808
	2700 mm dia	Metre	34.00	138257
	2700 mm dia	Metre	36.00	145759
	2700 mm dia	Metre	38.00	153215
	2700 mm dia	Metre	40.00	160716
	2700 mm dia	Metre	42.00	168164
	2800 mm dia	Metre	18.00	81711
	2800 mm dia	Metre	20.00	89380
	2800 mm dia	Metre	22.00	97041
	2800 mm dia	Metre	24.00	104704
	2800 mm dia	Metre	26.00	112365
	2800 mm dia	Metre	28.00	120074
	2800 mm dia	Metre	30.00	127839
	2800 mm dia	Metre	32.00	135500
	2800 mm dia	Metre	34.00	143215
	2800 mm dia	Metre	36.00	150937
	2800 mm dia	Metre	38.00	158705
	2800 mm dia	Metre	40.00	166420
	2800 mm dia	Metre	42.00	174229
	2900 mm dia	Metre	18.00	84662
	2900 mm dia	Metre	20.00	92537
	2900 mm dia	Metre	22.00	100465
	2900 mm dia	Metre	24.00	108401
	2900 mm dia	Metre	26.00	116327
	2900 mm dia	Metre	28.00	124296
	2900 mm dia	Metre	30.00	132277
	2900 mm dia	Metre	32.00	140213
	2900 mm dia	Metre	34.00	148244
	2900 mm dia	Metre	36.00	156267
	2900 mm dia	Metre	38.00	164301
	2900 mm dia	Metre	40.00	172290
	2900 mm dia	Metre	42.00	180325
	3000 mm dia	Metre	18.00	87451

	3000 mm dia	Metre	20.00	95687
	3000 mm dia	Metre	22.00	103836
	3000 mm dia	Metre	24.00	112029
	3000 mm dia	Metre	26.00	120224
	3000 mm dia	Metre	28.00	128459
	3000 mm dia	Metre	30.00	136714
	3000 mm dia	Metre	32.00	144908
	3000 mm dia	Metre	34.00	153197
	3000 mm dia	Metre	36.00	161496
	3000 mm dia	Metre	38.00	169751
	3000 mm dia	Metre	40.00	178052
	3000 mm dia	Metre	42.00	186341
2	Cost of Laying, Jointing, Hydrostatic Filed Test Pressure, Including Cost of Site Welding, Jointing Materials And Cost of Transportation of Water Including Emptying Pipe Line After Completion Of Field Testing			
	500 mm dia	Metre	8.00	783
	500 mm dia	Metre	10.00	802
	600 mm dia	Metre	8.00	967
	600 mm dia	Metre	10.00	987
	700 mm dia	Metre	8.00	1221
	700 mm dia	Metre	10.00	1246
	800 mm dia	Metre	8.00	1406
	800 mm dia	Metre	10.00	1433
	800 mm dia	Metre	12.00	1475
	900 mm dia		8.00	1707
	900 mm dia	Metre	10.00	1737
	900 mm dia	Metre	12.00	1788
	1000 mm dia	Metre	8.00	1889
	1000 mm dia	Metre	10.00	1921
	1000 mm dia	Metre	12.00	1976
	1000 mm dia	Metre	14.00	2002
	1100 mm dia	Metre	10.00	1982
	1100 mm dia	Metre	12.00	2041
	1100 mm dia	Metre	14.00	2069
	1100 mm dia	Metre	16.00	2126
	1200 mm dia	Metre	10.00	2044
	1200 mm dia	Metre	12.00	2108
	1200 mm dia	Metre	14.00	2138
	1200 mm dia	Metre	16.00	2199
	1200 mm dia	Metre	18.00	2261

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	1300 mm dia	Metre	10.00	2107
	1300 mm dia	Metre	12.00	2177
	1300 mm dia	Metre	14.00	2209
	1300 mm dia	Metre	16.00	2276
	1300 mm dia	Metre	18.00	2342
	1300 mm dia	Metre	20.00	2431
	1400 mm dia	Metre	10.00	2316
	1400 mm dia	Metre	12.00	2390
	1400 mm dia	Metre	14.00	2425
	1400 mm dia	Metre	16.00	2495
	1400 mm dia	Metre	18.00	2568
	1400 mm dia	Metre	20.00	2596
	1400 mm dia	Metre	22.00	2748
	1500 mm dia	Metre	10.00	2371
	1500 mm dia	Metre	12.00	2450
	1500 mm dia	Metre	14.00	2488
	1500 mm dia	Metre	16.00	2562
	1500 mm dia	Metre	18.00	2639
	1500 mm dia	Metre	20.00	2742
	1500 mm dia	Metre	22.00	2770
	1500 mm dia	Metre	24.00	2875
	1600 mm dia	Metre	10.00	2427
	1600 mm dia	Metre	12.00	2511
	1600 mm dia	Metre	14.00	2552
	1600 mm dia	Metre	16.00	2633
	1600 mm dia	Metre	18.00	2715
	1600 mm dia	Metre	20.00	2820
	1600 mm dia	Metre	22.00	2898
	1600 mm dia	Metre	24.00	3028
	1600 mm dia	Metre	26.00	3170
	1700 mm dia	Metre	10.00	2487
	1700 mm dia	Metre	12.00	2576
	1700 mm dia	Metre	14.00	2618
	1700 mm dia	Metre	16.00	2703
	1700 mm dia	Metre	18.00	2790
	1700 mm dia	Metre	20.00	2904
	1700 mm dia	Metre	22.00	3019
	1700 mm dia	Metre	24.00	3146
	1700 mm dia	Metre	26.00	3285
	1700 mm dia	Metre	28.00	3432
	1800 mm dia	Metre	10.00	2752
	1800 mm dia	Metre	12.00	2846
	1800 mm dia	Metre	14.00	2891
	1800 mm dia	Metre	16.00	2979
	1800 mm dia	Metre	18.00	3074
	1800 mm dia	Metre	20.00	3191

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	1800 mm dia	Metre	22.00	3314
	1800 mm dia	Metre	24.00	3449
	1800 mm dia	Metre	26.00	3595
	1800 mm dia	Metre	28.00	3749
	1900 mm dia	Metre	10.00	3151
	1900 mm dia	Metre	12.00	3252
	1900 mm dia	Metre	14.00	3298
	1900 mm dia	Metre	16.00	3393
	1900 mm dia	Metre	18.00	3492
	1900 mm dia	Metre	20.00	3615
	1900 mm dia	Metre	22.00	3744
	1900 mm dia	Metre	24.00	3885
	1900 mm dia	Metre	26.00	4038
	1900 mm dia	Metre	28.00	4205
	2000 mm dia	Metre	10.00	3983
	2000 mm dia	Metre	12.00	4088
	2000 mm dia	Metre	14.00	4136
	2000 mm dia	Metre	16.00	4235
	2000 mm dia	Metre	18.00	4338
	2000 mm dia	Metre	20.00	4469
	2000 mm dia	Metre	22.00	4511
	2000 mm dia	Metre	24.00	4658
	2000 mm dia	Metre	26.00	4821
	2000 mm dia	Metre	28.00	4994
	2000 mm dia	Metre	30.00	5273
	2100 mm dia	Metre	12.00	4591
	2100 mm dia	Metre	14.00	4644
	2100 mm dia	Metre	16.00	4746
	2100 mm dia	Metre	18.00	4857
	2100 mm dia	Metre	20.00	4993
	2100 mm dia	Metre	22.00	5136
	2100 mm dia	Metre	24.00	5289
	2100 mm dia	Metre	26.00	5458
	2100 mm dia	Metre	28.00	5480
	2100 mm dia	Metre	30.00	5769
	2100 mm dia	Metre	32.00	5810
	2100 mm dia	Metre	34.00	6150
	2200 mm dia	Metre	12.00	5118
	2200 mm dia	Metre	14.00	5173
	2200 mm dia	Metre	16.00	5280
	2200 mm dia	Metre	18.00	5395
	2200 mm dia	Metre	20.00	5378
	2200 mm dia	Metre	22.00	5528
	2200 mm dia	Metre	24.00	5689
	2200 mm dia	Metre	26.00	5866
	2200 mm dia	Metre	28.00	6056
	2200 mm dia	Metre	30.00	6352

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	2200 mm dia	Metre	32.00	6528
	2200 mm dia	Metre	34.00	6696
	2200 mm dia	Metre	36.00	7116
	2300 mm dia	Metre	12.00	5811
	2300 mm dia	Metre	14.00	5867
	2300 mm dia	Metre	16.00	5980
	2300 mm dia	Metre	18.00	6101
	2300 mm dia	Metre	20.00	6248
	2300 mm dia	Metre	22.00	6424
	2300 mm dia	Metre	24.00	6573
	2300 mm dia	Metre	26.00	6757
	2300 mm dia	Metre	28.00	6794
	2300 mm dia	Metre	30.00	7099
	2300 mm dia	Metre	32.00	7287
	2300 mm dia	Metre	34.00	7411
	2300 mm dia	Metre	36.00	7894
	2400 mm dia	Metre	12.00	6997
	2400 mm dia	Metre	14.00	7055
	2400 mm dia	Metre	16.00	7172
	2400 mm dia	Metre	18.00	7297
	2400 mm dia	Metre	20.00	7453
	2400 mm dia	Metre	22.00	7614
	2400 mm dia	Metre	24.00	7789
	2400 mm dia	Metre	26.00	7981
	2400 mm dia	Metre	28.00	8188
	2400 mm dia	Metre	30.00	8410
	2400 mm dia	Metre	32.00	8604
	2400 mm dia	Metre	34.00	8848
	2400 mm dia	Metre	36.00	9166
	2500 mm dia	Metre	14.00	8617
	2500 mm dia	Metre	16.00	8738
	2500 mm dia	Metre	18.00	8896
	2500 mm dia	Metre	20.00	9031
	2500 mm dia	Metre	22.00	9198
	2500 mm dia	Metre	24.00	9379
	2500 mm dia	Metre	26.00	9581
	2500 mm dia	Metre	28.00	9795
	2500 mm dia	Metre	30.00	10024
	2500 mm dia	Metre	32.00	10272
	2500 mm dia	Metre	34.00	10535
	2500 mm dia	Metre	36.00	10811
	2600 mm dia	Metre	14.00	8805
	2600 mm dia	Metre	16.00	8932
	2600 mm dia	Metre	18.00	9069
	2600 mm dia	Metre	20.00	9232
	2600 mm dia	Metre	22.00	9408
	2600 mm dia	Metre	24.00	9597

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	2600 mm dia	Metre	26.00	9805
	2600 mm dia	Metre	28.00	10027
	2600 mm dia	Metre	30.00	10267
	2600 mm dia	Metre	32.00	10523
	2600 mm dia	Metre	34.00	10795
	2600 mm dia	Metre	36.00	11081
	2600 mm dia	Metre	38.00	11390
	2600 mm dia	Metre	40.00	11713
	2600 mm dia	Metre	42.00	12049
	2700 mm dia	Metre	18.00	9147
	2700 mm dia	Metre	20.00	9320
	2700 mm dia	Metre	22.00	9500
	2700 mm dia	Metre	24.00	9697
	2700 mm dia	Metre	26.00	9913
	2700 mm dia	Metre	28.00	10143
	2700 mm dia	Metre	30.00	10391
	2700 mm dia	Metre	32.00	10655
	2700 mm dia	Metre	34.00	10940
	2700 mm dia	Metre	36.00	11238
	2700 mm dia	Metre	38.00	11555
	2700 mm dia	Metre	40.00	11887
	2700 mm dia	Metre	42.00	12295
	2800 mm dia	Metre	18.00	9341
	2800 mm dia	Metre	20.00	9516
	2800 mm dia	Metre	22.00	9704
	2800 mm dia	Metre	24.00	9910
	2800 mm dia	Metre	26.00	10131
	2800 mm dia	Metre	28.00	10369
	2800 mm dia	Metre	30.00	10625
	2800 mm dia	Metre	32.00	10902
	2800 mm dia	Metre	34.00	11194
	2800 mm dia	Metre	36.00	11393
	2800 mm dia	Metre	38.00	11719
	2800 mm dia	Metre	40.00	12068
	2800 mm dia	Metre	42.00	12431
	2900 mm dia	Metre	18.00	10629
	2900 mm dia	Metre	20.00	10814
	2900 mm dia	Metre	22.00	11006
	2900 mm dia	Metre	24.00	11218
	2900 mm dia	Metre	26.00	11448
	2900 mm dia	Metre	28.00	11696
	2900 mm dia	Metre	30.00	11962
	2900 mm dia	Metre	32.00	12244
	2900 mm dia	Metre	34.00	12547
	2900 mm dia	Metre	36.00	12869
	2900 mm dia	Metre	38.00	13206
	2900 mm dia	Metre	40.00	13563
	2900 mm dia	Metre	42.00	13938

	3000 mm dia	Metre	18.00	10715
	3000 mm dia	Metre	20.00	10904
	3000 mm dia	Metre	22.00	11104
	3000 mm dia	Metre	24.00	11322
	3000 mm dia	Metre	26.00	11562
	3000 mm dia	Metre	28.00	11816
	3000 mm dia	Metre	30.00	12090
	3000 mm dia	Metre	32.00	12385
	3000 mm dia	Metre	34.00	12697
	3000 mm dia	Metre	36.00	13028
	3000 mm dia	Metre	38.00	13378
	3000 mm dia	Metre	40.00	13748
	3000 mm dia	Metre	42.00	14135

The above rates of MS Spiral pipes are based on the following raw materials cost.

MS Plates = Rs 41,000/- Per MT.

The rates may be revised depending upon the increase/decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table "R₁".

R₁ = Variation (Increase/Decrease) in cost (Rs. Per metre) due to change in cost of MS Plates =
 $(M_2 - M_1) / 1000 \times W_m$

M₁ = Rs 41,000/-

M₂ = Cost of MS Plates (Rs. Per MT including all taxes and freight)
 at the time of preparation of estimate

W_m = Weight of MS Plates required (Kg) per meter of pipe

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2016-17. (PE - 80 Grade)

Sl.No	Description	4.0 kg/ sqcm
1	2	4
	Manufacture, Supply, & Delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to anywhere in T.G, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm dia in coil & above 90 mm dia straight lengths in 6 m.)	
	Rate per Meter	
	OD 40 mm	41
	OD 50 mm	61
	OD 63 mm	84
	OD 75 mm	114
	OD 90 mm	163
	OD 110 mm	243
	OD 125 mm	314
	OD 140 mm	387
	OD 160 mm	506
	OD 180 mm	639
	OD 200 mm	783
	OD 225 mm	1018
	OD 250 mm	1260
	OD 280 mm	1570
	OD 315 mm	1995
	OD 355 mm	2426
	OD 400 mm	3143
	OD 450 mm	3995
	OD 500 mm	4908
	OD 560 mm	6071
	OD 630 mm	7679
	OD 710 mm	9758
	OD 800 mm	12351
	OD 900 mm	15650
	OD 1000 mm	19272

Note: Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 80 grade Rs.98750/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

16. S o R FOR H.D.P.E PIPES FOR THE YEAR 2016-17. (PE - 100 Grade)

Sl. No	Description	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm	12.5 kg/sqcm	16.0 kg/sqcm
1	2	3	4	5	6	7
I	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to any where in T.G, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm diain coil & above 90 mm diastraight length in 6 m.)					
	Rate per Meter					
	OD 20 mm					32
	OD 25 mm					42
	OD 32 mm			41	54	68
	OD 40 mm		53	64	81	104
	OD 50 mm	65	81	98	126	161
	OD 63 mm	98	125	151	199	251
	OD 75 mm	139	177	214	284	357
	OD 90 mm	198	253	303	402	518
	OD 110 mm	297	377	449	606	751
	OD 125 mm	379	486	584	776	966
	OD 140 mm	476	608	731	977	1220
	OD 160 mm	623	792	952	1273	1582
	OD 180 mm	783	1002	1206	1607	1995
	OD 200 mm	968	1238	1486	1991	2465
	OD 225 mm	1250	1598	1923	2511	3112
	OD 250 mm	1538	1975	2374	3100	3845
	OD 280 mm	1928	2472	2970	3896	4831
	OD 315 mm	2444	3131	3763	4912	6112
	OD 355 mm	3067	3923	4721	6249	7779
	OD 400 mm	4039	5159	6194	8090	10035
	OD 450 mm	5018	6436	7740	10228	12619
	OD 500 mm	6206	7935	9548	12633	15110
	OD 560 mm	7211	9227	11033	14155	
	OD 630 mm	9091	11675	13977	16768	
	OD 710 mm	11564	14795	17753		
	OD 800 mm	14675	18784	22607		
	OD 900 mm	18592	23779			
	OD 1000 mm	22926				

Note:-

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 100 grade Rs.99580/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Metre excluding CED & ST

P1 = Existing pipe price in Rs. Per Metre excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Metre as per weight chart.

17. S o R FOR H.D.P.E FITTINGS FOR THE YEAR 2016-17.

	Manufacture, Supply, & Delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to anywhere in T.G. Excluding excise duty, sale tax and specials etc., complete	
I (a)	PIPE ENDS LONG NECK	Rate per Each
	OD 50 mm	75
	OD 63 mm	95
	OD 75 mm	114
	OD 90 mm	147
	OD 110 mm	204
	OD 125 mm	368
	OD 140 mm	371
	OD 160 mm	518
	OD 180 mm	734
	OD 200 mm	944
	OD 225 mm	1082
	OD 250 mm	1268
	OD 280 mm	1417
	OD 315 mm	1634
	OD 355 mm	3415
	OD 400 mm	4551
	OD 450 mm	7573
	OD 500 mm	8428
(b)	MS FLANGES	Rate per Each
	OD 50 mm	104
	OD 63 mm	131
	OD 75 mm	166
	OD 90 mm	179
	OD 110 mm	188
	OD 125 mm	258
	OD 140 mm	280
	OD 160 mm	367
	OD 180 mm	518
	OD 200 mm	671
	OD 225 mm	838
	OD 250 mm	989
	OD 280 mm	1122
	OD 315 mm	1320

	OD 355 mm	2236
	OD 400 mm	2773
	OD 450 mm	3621
	OD 500 mm	4146
(c)	END CAPS	Rate per Each
	OD 50 mm	50
	OD 63 mm	62
	OD 75 mm	77
	OD 90 mm	102
	OD 110 mm	117
	OD 125 mm	160
	OD 140 mm	187
	OD 160 mm	287
	OD 180 mm	466
	OD 200 mm	509
	OD 225 mm	530
	OD 250 mm	754
	OD 280 mm	772
	OD 315 mm	1054
	OD 355 mm	1626
	OD 400 mm	2844
	OD 450 mm	4574
	OD 500 mm	8428
(d)	REDUCERS	Rate per Each
	OD 50 mm x 63 mm	71
	OD 63 mm x 75 mm	102
	OD 75 mm x 90 mm	166
	OD 90 mm x 110 mm	230
	OD 110 mm x 125 mm	351
	OD 125 mm x 140 mm	486
	OD 140 mm x 160 mm	677
	OD 160 mm x 180 mm	939
	OD 180 mm x 200 mm	1212
	OD 200 mm x 225 mm	1488
	OD 225 mm x 250 mm	2029
	OD 250 mm x 280 mm	2883
	OD 280 mm x 315 mm	4075
	OD 315 mm x 355 mm	4674
	OD 355 mm x 400 mm	6596

	OD 400 mm x 450 mm	6842
	OD 450 mm x 500 mm	8773
(e)	TEES	Rate per Each
	OD 50 mm	97
	OD 63 mm	156
	OD 75 mm	187
	OD 90 mm	329
	OD 110 mm	390
	OD 125 mm	587
	OD 140 mm	809
	OD 160 mm	1394
	OD 180 mm	1890
	OD 200 mm	2603
	OD 225 mm	3696
	OD 250 mm	5059
	OD 280 mm	7084
	OD 315 mm	10097
	OD 355 mm	14397
	OD 400 mm	21089
	OD 450 mm	29954
	OD 500 mm	41140
(f)	BENDS	Rate per Each
	OD 50 mm	62
	OD 63 mm	136
	OD 75 mm	177
	OD 90 mm	303
	OD 110 mm	400
	OD 125 mm	591
	OD 140 mm	777
	OD 160 mm	1159
	OD 180 mm	1664
	OD 200 mm	2254
	OD 225 mm	3197
	OD 250 mm	4383
	OD 280 mm	6320
	OD 315 mm	8740
	OD 355 mm	12116
	OD 400 mm	18275
	OD 450 mm	26868

	OD 500 mm	36425
II	Providing and Fixing electro Fusion Ferrule Tapping saddle manufactured from virgin resin of PE-80/PE-100 having blue/black colour using food grade compounded raw material with quality assurance certificate from quality agencies like CIPET etc. For usage in drinking water system and having working pressure of 10 bar. The cost shall include testing of all materials, labour all taxes (central & state), inspection charges, transportation upto site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.	
	SIZE	Rate Each
		Rs.
	(Main pipe outer diameter in mm & Tapping size in Inches)	
	63x1/2"	879
	63 x3/4"	879
	63 x1"	879
	63 x1/2"	879
	75 x1/2"	879
	75 x3/4"	879
	75 x1	879
	90 x1/2"	879
	90 x3/4"	879
	90 x1"	879
	90 x 1 1/4"	1140
	90 x 1 1/2"	1140
	90 x2"	1140
	110x1/2"	879
	110 x3/4"	879
	110 x1"	879
	110 x 1 1/4"	1140
	110x1 1/2"	1140
	110x2"	1140
	160 x1/2"	879
	160 x3/4"	879
	160 x1"	879
	160 x 1 1/4"	1246
	160 x 1 1/2"	1246
	160 x 2"	1246
	200 x 1/2"	1241
	200 x 3/4"	1241
	200 x 1"	1241

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	200 x 1 1/4"	1794
	200 x 2"	1794
	250 x 1/2"	1241
	250 x 3/4"	1241
	250 x 1"	1241
	250 x 1 1/4"	1794
	250 x 1 1/2"	1794
	250 x 2"	1794
	315 x 1/2"	1478
	315 x 3/4"	1478
	315 x 1"	1478
	315 x 1 1/4"	2007
	315 x 1 1/2"	2007
	315 x 2"	2007

18. SoR FOR PVC PIPES FOR THE YEAR 2016-17

Sl. No.	Description	4.0 Kgs/cm ²	6.0 Kgs/cm ²	10.0 Kgs/cm ²
1	2	3	4	5
1	Manufacture, Supply and Delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (3 rd revision) with bell ends (Socket) as per specification in light Grey/Natural Ivory Grey/ Any other Color (except White) inclusive of transportation to the sub-divisional stores anywhere in TG excluding Excise duty and Sales Tax etc.			
	DIA IN MM Rate/Metre	Rs.	Rs.	Rs.
	20			15
	25			22
	32			33
	40		31	51
	50		47	78
	63	52	75	113
	75	76	103	164
	90	104	149	232
	110	151	215	346
	125	197	275	452
	140	246	354	561
	160	324	459	735
	180	413	591	942
	200	502	719	1146
	225	667	963	1532
	250	776	1183	1866
	280	1016	1495	2362
	315	1286	1878	2981
	355	1693	2457	
	400	2135	3126	

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.68608/- per MT(Basic rate, excluding CED)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre, P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT, A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Metre as per weight chart.

19. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2016-17

Code No	Description	
1	2	4
	Manufacture, Supply, & Delivery of unplasticized Non-pressure polyvinyl chloride(PVC-U) pipes of dark (any shade of brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) with solvent cement jointing as per specification inclusive of transportation to the sub-divisional stores anywhere in T.G, excluding Central Excise Duty, Cess, & VAT etc.,	Rates 2016-17
	Rate per Meter	Rs.
	Pipe Series (S25)	
	OD 160 mm	271
	OD 200 mm	414
	OD 250mm	641
	OD 315 mm	1011
	Pipe Series (S20)	
	OD 125 mm	211
	OD 160 mm	337
	OD 200 mm	511
	OD 250mm	796
	OD 315 mm	1250
	Pipe Series (S16.5)	
	OD 110 mm	185
	OD 125 mm	250
	OD 160 mm	390
	OD 200 mm	607
	OD 250mm	941
	OD 315 mm	1487

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.68608/- per MT (Basic rate, excluding CED)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

20. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2016-17

Code No	Description	
1	2	4
	Manufacture, supply, & delivery of un-plasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) with <u>Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes)as per specification inclusive of transportation to the Sub-Divisional stores any where in T.G, excluding Central Excise Duty, Cess, & VAT etc.,	Rates 2016-17
	Rate per Meter	Rs.
	Pipe Series (S25)	
	OD 160 mm	291
	OD 200 mm	440
	OD 250mm	684
	OD 315 mm	1077
	Pipe Series (S20)	
	OD 125 mm	227
	OD 160 mm	357
	OD 200 mm	543
	OD 250mm	846
	OD 315 mm	1329
	Pipe Series (S16.5)	
	OD 110 mm	197
	OD 125 mm	266
	OD 160 mm	417
	OD 200 mm	642
	OD 250mm	999
	OD 315 mm	1577

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.68608/- per MT (Basic rate, excluding CED)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Metre as per weight chart.

21. SoR FOR CENTRIFUGALLY CAST (SPUN) IRON PRESSURE PIPES

Sl. No.	Description	Unit	S.S. Rates for 2016-17		
			4	5	6
1	2	3	4	5	6
I	Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/2001 (third revision) with amdt. No: 1 & 2 in standard lengths of 3.66 m, 4 m, 4.5m, 5 m, 5.5 m & 6 m and details given below, suitable either for lead jointing or rubber gasket (push on) jointing at purchasers option at ex-factory excluding transportation, taxes & duties.		LA Class (Rs)	A Class (Rs)	B Class (Rs)
	Nominal dia (in MM)				
	80	Rmt	693	751	808
	100	Rmt	842	925	988
	125	Rmt	1058	1155	1244
	150	Rmt	1278	1400	1509
	200	Rmt	1865	2025	2191
	250	Rmt	2514	2737	2962
	300	Rmt	3242	3546	3841
	350	Rmt	4152	4505	4887
	400	Rmt	5056	5525	5963
	450	Rmt	6120	6724	7252
	500	Rmt	7245	7892	8538
	600	Rmt	9573	10451	11319
	700	Rmt	12625	13793	14902
	750	Rmt	14140	15461	16772
	800	Rmt	15828	17247	18657
	900	Rmt	19289	22328	22805
	1000	Rmt	23175	25314	27361
II	Conveyance of Centrifugally Cast (Spun) Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)		Class		
	SIZE IN MM	UNIT	LA	A	B
	80	Per KM/RMT	0.26	0.26	0.26
	100	Per KM/RMT	0.26	0.26	0.26
	125	Per KM/RMT	0.40	0.40	0.40
	150	Per KM/RMT	0.40	0.40	0.40
	200	Per KM/RMT	0.67	0.67	0.67

250	Per KM/RMT		0.81	0.81	0.81
300	Per KM/RMT		1.07	1.20	1.20
350	Per KM/RMT		1.47	1.47	1.60
400	Per KM/RMT		1.73	1.73	1.86
450	Per KM/RMT		2.01	2.14	2.27
500	Per KM/RMT		2.40	2.54	2.67
600	Per KM/RMT		2.40	2.54	2.67
700	Per KM/RMT		2.40	2.54	2.67
750	Per KM/RMT		4.00	4.26	4.54
800	Per KM/RMT		6.80	6.80	6.80
900	Per KM/RMT		6.80	6.80	6.80
1000	Per KM/RMT		6.80	6.80	6.80

Note:The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$$P2 = P1 + (R2 - R1) / 1000 * M * 1.0$$

Where M= Weight of pipe in kg per metre.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron (Rs per MT excluding CED&ST) at the time of preparation of estimate.

R1 = Price of Pig Iron (Rs per MT excluding CED&ST) at the time of preparation of SSR =Rs. 22,000/-

22.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR2016-17

Sl. No.	Description	Unit	S.S. Rate for 2016-17	
			4	5
1	2	3	4	5
1	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with <u>Socket Spigot ends</u> conforming to IS.: 8329/2000 in standard working lengths of 4, 5 5.5 & 6 meter for classification K9 & K7 suitable for push-on-joint (rubber gasket d jointing) with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	Nominal Dia in mm	Rmt	K7	K9
	100	Rmt	790	941
	150	Rmt	1090	1387
	200	Rmt	1525	1851
	250	Rmt	2047	2429
	300	Rmt	2632	3076
	350	Rmt	3315	3834
	400	Rmt	4026	4625
	450	Rmt	4849	5535
	500	Rmt	5783	6440
	600	Rmt	7699	8492
	700	Rmt	9971	10990
	750	Rmt	11176	12333
	800	Rmt	12344	13606
	900	Rmt	15063	16600
	1000	Rmt	17846	19668
	1100	Rmt		20892
	1200	Rmt		24440
2	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage <u>with plain ends</u> conforming to IS:8329/2000in standard working lengths of 4, 5, 5.5 & 6 meter for classification K9 & K7 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	Nominal Dia in mm		K7	K9
	100	Rmt	669	861
	150	Rmt	963	1262
	200	Rmt	1375	1716
	250	Rmt	1789	2280
	300	Rmt	2362	2885
	350	Rmt	2967	3584
	400	Rmt	3593	4322
	450	Rmt	4309	5105

	500	Rmt	5134	6108
	600	Rmt	6801	7869
	700	Rmt	9031	9985
	750	Rmt	10106	11187
	800	Rmt	11170	12351
	900	Rmt	13507	14936
	1000	Rmt	16058	17756
	1100	Rmt		18740
	1200	Rmt		21822
3	Centrifugally cast (Spun) Ductile Iron pressure pipes with flanged (welded) ends for water, gas, sewage conforming to IS: 8329/2000 in standard working lengths of 1,2,3, 4, 5 mts for classification K9 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	Nominal Dia in mm		1.0 Mt. Length	2.0 Mt. Length
	100	Each	3458	4468
	150	Each	4877	6341
	200	Each	6434	8425
	250	Each	8397	11054
	300	Each	10479	13835
	350	Each	16455	20623
	400	Each	20485	25522
	450	Each	24746	30687
	500	Each	29954	36933
	600	Each	42409	51587
	700	Each	50600	62246
	800	Each	62368	76775
	900	Each	74318	91736
	1000	Each	95990	116861
	1100	Each	111639	133744
			3.0 Mt. Length	4.0 Mt. Length
	100	Each	5477	5962
	150	Each	7806	8620
	200	Each	10420	11661
	250	Each	13712	15400
	300	Each	17184	19415
	350	Each	24793	27021
	400	Each	30559	32841
	450	Each	36626	39231
	500	Each	43911	46891
	600	Each	60765	64254
	700	Each	73894	78667

	800	Each	91178	97159
	900	Each	109156	116588
	1000	Each	136818	144623
	1100	Each	156334	184454
			5.0 Mt. Length	
	100	Each	6948	
	150	Each	10073	
	200	Each	13653	
	250	Each	18055	
	300	Each	22774	
	350	Each	31189	
	400	Each	37871	
	450	Each	45167	
	500	Each	53857	
	600	Each	73409	
	700	Each	90290	
	800	Each	111533	
	900	Each	138110	
	1000	Each	165288	
	1100	Each	197001	
4	Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes		Class	
	SIZE IN MM	UNIT	K7	K9
	100	Per KM/RMT	0.22	0.33
	150	Per KM/RMT	0.33	0.44
	200	Per KM/RMT	0.33	0.66
	250	Per KM/RMT	0.44	0.88
	300	Per KM/RMT	0.66	1.10
	350	Per KM/RMT	0.77	1.32
	400	Per KM/RMT	0.88	1.54
	450	Per KM/RMT	1.10	1.87
	500	Per KM/RMT	1.32	2.20
	600	Per KM/RMT	1.87	2.86
	700	Per KM/RMT	2.75	4.18
	750	Per KM/RMT	3.30	5.06
	800	Per KM/RMT	5.61	8.36
	900	Per KM/RMT	5.61	8.36
	1000	Per KM/RMT	5.61	8.36
	1100	Per KM/RMT	5.61	-
	1200	Per KM/RMT	6.00	
5	Supply and Delivery of Polyethylene (PE) Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.			

	DIA IN MM			
	100 mm dia		RMT	41
	150 mm dia		RMT	50
	200 mm dia		RMT	64
	250 mm dia		RMT	74
	300 mm dia		RMT	81
	350 mm dia		RMT	91
	400 mm dia		RMT	127
	450 mm dia		RMT	127
	500 mm dia		RMT	154
	600 mm dia		RMT	154
	700 mm dia		RMT	200
	750 mm dia		RMT	200
	800 mm dia		RMT	200
	900 mm dia		RMT	227
	1000 mm dia		RMT	227
	1100 mm dia		RMT	227
6	Additional price for HAC(high alumina cement motar lining)			
	DIA IN MM			
	100 mm dia		RMT	55
	150 mm dia		RMT	73
	200 mm dia		RMT	89
	250 mm dia		RMT	106
	300 mm dia		RMT	114
	350 mm dia		RMT	130
	400 mm dia		RMT	178
	450 mm dia		RMT	178
	500 mm dia		RMT	220
	600 mm dia		RMT	220
	700 mm dia		RMT	282
	750 mm dia		RMT	282
	800 mm dia		RMT	282
	900 mm dia		RMT	322
	1000 mm dia		RMT	322
	1100 mm dia		RMT	322
	1200 mm dia		RMT	322

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$P2 = P1 + (R2 - R1) / 1000 * M * 0.96$, Where

M = Weight of pipe in kg per metre as per I.S.8329-2000.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of SoR =Rs.22,000/-

23. S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2016-17

Sl. No.	Description	Unit	
1	2	3	
	Centrifugally cast (spun) Ductile Iron Fittings conforming to IS:9523/2000 having dimensions as per table. The rates mentioned here under are for fittings, zinc coated externally with inside mortar lining (with finishing as per class 13/IS 9523/2000) (ex-works) Excluding Transportation, Taxes and Duties etc.		
I	DI double socket branch flange Tee		
	Upto 500 x 500 mm dia	Kg	100.00
	Above 500 x 500 mm dia	Kg	112.00
II	DI All Socket Tees		
	Upto 300 x 300 mm dia	Kg	100.00
	Above 300 x 300 mm dia	Kg	112.00
III	DI Double socket Tapers (Reducer)		
	Upto 500 x 450 mm dia	Kg	100.00
	Above 500 x 450 mm dia	Kg	112.00
IV	DI Flanged Socket		
	Upto 500 mm dia	Kg	100.00
	Above 500 mm dia	Kg	112.00
V	DI Flanged Spigot		
	Upto 500 mm dia	Kg	100.00
	Above 500 mm dia	Kg	112.00
VI	DI Double Socket Duck Foot Bend		
	Upto 300mm dia	Kg	100.00
	Above 300mm dia	Kg	112.00
VII	DI Double Flange Duck/Foot bend		
	Upto 300 mm dia	Kg	100.00
	Above 300 mm dia	Kg	112.00
VIII	DI All socket Cross.		
	Upto 300 x 300 mm dia	Kg	100.00
	Above 300 x 300 mm dia	Kg	112.00
IX	DI All Flange Tee		
	Upto 500 x 500 mm dia	Kg	100.00
	Above 500 x 500 mm dia	Kg	112.00
X	DI All Flange Cross		
	Upto 300 x 300 mm dia	Kg	100.00
	Above 300 x 300 mm dia	Kg	112.00

XI	DI Double Flange Reducer		
	Upto 500 x 450 mm dia	Kg	100.00
	Above 500 x 450 mm dia	Kg	112.00
XII	Blank Flange		
	Upto 500 mm dia	Kg	100.00
	Above 500 mm dia	Kg	112.00
XIII	Mechanical Joints		
	Upto 300 mm dia	Kg	100.00
	Above 300 mm dia	Kg	112.00
XIV	DI Double Socket Bends		
	Upto 500mm dia	Kg	100.00
	Above 500 mm dia	Kg	112.00
XV	DI Double Flanged Bends		
	Upto 500mm dia	Kg	100.00
	Above 500 mm dia	Kg	112.00

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

24. S o R FOR RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES

Sl. No.	Description	Unit	S.S Rates For 2016-17
1	2	3	4
1	Manufacture as per BIS:12820/2004 with S.B.R. Quality Rubber confirming to BIS: 5382/85, supply and delivery of Rubber Gaskets suitable for C.I/ D.I S/S pipes anywhere in T.G. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading & stacking but excluding central excise duty, sales tax, octroi and other Govt. Levies etc., complete.		
	80mm dia	Each	63
	100mm dia	Each	98
	125mm dia	Each	117
	150mm dia	Each	143
	200mm dia	Each	174
	250mm dia	Each	194
	300mm dia	Each	295
	350mm dia	Each	374
	400mm dia	Each	408
	450mm dia	Each	439
	500mm dia	Each	609
	600mm dia	Each	722
	700mm dia	Each	959
	750mm dia	Each	1065
	800mm dia	Each	1277
	900mm dia	Each	1541
	1000mm dia	Each	1686

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

25. S o R FOR CI PIPES AND SPECIALS FOR THE YEAR 2016-17

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, Transit risk and delivery any where in T.G. for the year 2016-17. Rs.
1	2	3	4
	Manufacture, Supply and Delivery of Cast Iron Pipes and Fittings (spls.) Conforming to IS. No. 7181/1986, 5531/1988, 3950/1979 and C.I.D Joints confirming to is No.8794/1988 at site of work anywhere in T.G. Including, loading, unloading, transportation to site of work stacking at site transit risk and package, excluding taxes and duties.	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	70.02

Foot Note: The rate of CI pipes, CI Specials and CID Joints etc., which are to be incorporated in the SSR are based on the following raw materials cost.

Pig Iron: Rs.22,000/- per M.T.(excluding CED, Tax & Fright)

Coke : Rs.36,570/- per M.T. (Excluding CED, Tax & Fright)

The rates may be revised depending upon the increase/decrease in the cost of raw materials as per the following method. For every increase/decrease of Rs.1000/- in the cost of raw materials or part there of proportionately.

In respect of Pig Iron: The increase/decrease in cost of CI Specials per Kg is 3.43%.

In respect of coke: The increase/decrease in cost of CI Specials per Kg is 0.67%.

The above price is at site of work , Excise duty, CST/VAT extra as applicable at the time of supply.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

26. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2016-17
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURE				Additional charges for Flanged ended valves
		10 Kgs/cm ²	15 Kgs/cm ²	20 Kgs/cm ²	25 Kgs/cm ²	
1	2	3	4	5	6	7
1	Manufacture, supply and delivery of zero velocity valve/ PSLV with CI body with flanged ends as per AWWA, ex-factory excluding transportation, central excise duty and sale tax etc., complete.					
	DIA IN MM	Rs.	Rs.	Rs.	Rs.	
	Rate/Each					
	150	70275	82031	86878	95568	
	200	73417	84428	90762	99836	
	250	82835	95259	102404	112645	
	300	93220	107203	115246	126768	
2	Manufacture, Supply and delivery of zero velocity valve/ PSLV with MS Fabricated Body with Plain ends. as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc. Complete					
	DIA IN MM	Rs.	Rs.	Rs.	Rs.	Rs.
	Rate/ Each					
	350	99288	114180	122744	135017	8603
	400	109748	126209	135675	149248	10373
	450	127645	146793	157802	173583	12396
	500	147526	169653	182378	200616	13410
	525/550	158460	180138	198399	218238	17330
	600	177423	204035	219338	241272	24722
	650	198604	218467	248321	268056	27957
	700	231497	254772	289434	312583	33396
	750	256416	282094	320552	346231	37494
	800	312360	359217	386155	424768	42251
	900	371260	426949	450341	504868	51107
	1000	450341	450341	450341	625798	64894

	1050		454844	454844	454844	658915	67491
	1100		573755	650592	709321	780255	75142
	1200		690565	759637	865389	932309	85008
	1400		1035848	1139453	1298084	1398459	119543
	1500		1206940	1327622	1508641	1629199	121934
	1600		1231078	1354172	1538815	1661780	127513
3	Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc., complete.						
	DIA IN MM	Rate/Each	Rs.	Rs.	Rs.	Rs.	
	100		64263	73904	81293	89419	
	150		97659	112308	123538	135892	
	200		104237	119871	131860	145045	
4	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.		5% on basic cost of valves				

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

27. S o R FOR CAST STEEL VALVES FOR THE YEAR 2016-17.

Sl.No.	Description	TEST PRESSURES			
		3	4	5	6
1	Manufacture, Supply and Delivery of Cast Carbon Steel rising / Non rising spindle sluice valve design standard as per IS:14846/2000 for Water Supply Scheme with SS Spindle & SS Working parts the grade of Cast Steel for body Bonnet, Dome, Stool Cover, Wedge, Stuffing Box, Gland Thrust Plate, shall be as per IS : 1030 / 1998. (The valve shall be used for High pressure schemes & pumping stations) excluding transportation, Central Excise duty and sale tax etc., complete. ISI Marked	Class-150 Body 425PSI Seat 300 PSI PN-20	Class-300 Body 1100 PSI Seat 750 PSI PN-30	FOR Enclosed Spur Gear Arrangement.	
	Rate/Each			Class 150	Class 300
	DIA IN MM	Rs.	Rs.	Rs.	
	40	5729	11458		
	50	9440	17185		
	65	11814	21482		
	80	14169	25779		
	100	18897	34371		
	125	24235	44065		
	150	28354	51556		
	200	45794	93089	56048	102409
	250	64454	146517	74708	155839
	300	81420	185074	91673	194395
	350	108570	246766	122552	259477
	400	220547	501243	234529	513954
	450	247206	550816	261189	563528
	500	290831	660979	304813	673691
	600	332031	753517	346014	766228
	700	642251		656233	
	750	690723		710298	
	800	799784		819359	
	900	945201		964776	
	1000	1211796		1231370	
	1100	1308739		1328314	
	1200	1478390		1497965	

2	Manufacture, Supply and delivery of Cast Carbon Steel Bolted Cover Non Return Valve as per IS : 5312 / Part1 /2004. Round body heavy duty material spec. As per IS:1030/1998 with SS Hinge & Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete. Dia in mm.				
	Rate/Each Rs.	PN-20	PN-30		
	40	5695	10356		
	50	8475	15422		
	65	10591	19279		
	80	12710	23135		
	100	17439	30847		
	125	21813	39660		
	150	23983	43624		
	200	36354	79317		
	250	50896	132196		
	300	72707	165245		
	350	96944	220327		
	400	198735	451669		
	450	222971	506751		
	500	261748	594882		
	600	302948	688519		
3	Manufacture, Supply and delivery of Cast Steel Multi Door Type Non return Valve as per IS; 5312/ Part II / 1984 Heavy duty material spec. as per 1030/1998 with SS hinges & Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.	PN-20			
		Rate/Each			
	500	440652			
	600	550816			
	700	660979			
	750	815208			
	800	1211796			
	900	1454154			
	1000	1586349			
	1100	1872775			
1200	1894807				

4	Manufacture, Supply and delivery of Cast Steel D/F Butter fly Valves conforming to IS; 13095/1991 manually heavy duty Gear operation, excluding transportation, Central Excise duty and sale tax etc., complete.				
	DIA IN MM Rate/Each	PN- 1.0/1.6	PN-2.5		
	300	84104	104843		
	350	113138	142171		
	400	135950	176273		
	450	164752	208532		
	500	187795	239639		
	600	218902	281115		
	700	343330	426282		
	750	426282	529972		
	800	467758	581817		
	900	529972	664769		
	1000	841043	1048423		
	1100	1048423	1359493		
	1200	1255803	1359493		
	1300	1682084	1877944		
	1400	1774253	1981634		
	1500	1877944	2085324		
	1600	2189014	2500085		
	1800	2707465	2914845		
	2000	3744366	4055436		
5	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves			

Note : The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

28. S o R FOR DI D/F VALVES FOR THE YEAR 2016-17.Rate/Each in Rs.

Sl. No.	Description	TEST PRESSURE			
		3	4	5	6
1	2	3	4	5	6
1	Manufacture, supply and delivery of Single Chamber DI <u>Air Valve</u> with Body and cover in Ductile Iron of grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions. All internal parts such as float, shell etc., all cover bolts, of stainless steel, and Gaskets and seals of EPDM food grade quality Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per requirement of the deptt.				
	DIA IN MM	PN 10	PN 16	PN 25	
	25 (Screwed End)	9009	9009		
	32 (Screwed End)	17919	17919		
	40 (Screwed End)	18810	18810		
	50	32363	32363	41642	
	80	43175	43175	43175	
	100	50408	50408	57968	
	150	61366	61366	70132	
	200	67210	67210	78168	
	300	108900	108900	119900	
2	Manufacture, Supply and delivery of <u>DI D/F Gate Valves</u> (Soft Seated) Resilient seated soft sealing gate valves (Sluice valves) with body bonnet of ductile cast iron of grade GGG-40/ SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions, wedge fully rubber lined with EPDM food grade quality and seals of NBR and the valves should be of vacuum tight and 100% leak proof with face to face dimensions as per BS5163-89/IS14846-2000/DIN 3202 F 4. All the valves should be with Electrostatic powder coating both inside and outside pocket less body passage. Drilled as per requirement of the deptt.				
	DIA IN MM	PN 10	PN 16	PN 25	
	50	7747	7747	13094	
	80	9922	9922	16144	
	100	13088	13088	18304	

	150	20607	20607	30531	
	200	34244	34244	51495	
	250	47429	47429	76487	
	300	71682	71682	124065	
	350	217030	217030	363053	
	400	227631	227631	369274	
	450 With By-pass & Gear	391622	391622	736134	
	500 With By-pass & Gear	415877	415877	781725	
	600 With By-pass & Gear	535531	535531	1006636	
3	Manufacture, Supply and delivery of DI D/F Butterfly Valves with GGG-40/SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part 2-1985 and subsequent revisions, Double eccentrically Disc., with renewable soft seal on the disc and Body seat face of stainless steel / nickel weld overlay, 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. Drilled as per requirement of dept.				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	<u>PN 40</u>
	150	82590	82590	85256	113188
	200	89954	92874	109124	137629
	250	104808	107855	126328	192858
	300	125059	128741	143595	202507
	350	143087	156102	181811	220409
	400	180221	204182	237727	336972
	450	197850	219588	279661	
	500	199731	235759	374904	416406
	600	261775	369600	435149	456271
	700	516789	545294	819554	
	800	560262	583871	1196170	
	900	732712	732712		
	1000	918489	918489	1734523	
	1100	1056263	1056263		
	1200	1230671	1230671	1937679	
	1400	2644951	2644951		
	1600	3153860	3153860		
	1800	3868391	3868391		
	2000	6608212	6608212		
	2200	9540251	9540251		

4	Manufacture, Supply and delivery of DI D/F Swing Check Valves Slanted/Straight seated with metallic, corrosion proof and wear resistant seat faces resilient seat, Body and Disc of ductile cast iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per IS 3896(part2)-1985 and subsequent revisions. All the inside and outside of the body is to be coated with double coating of epoxy liquid. Drilled as per requirement of dept.. Specification and Dimensions as per I.S 5312 or equivalent codes.								
	DIA IN MM		<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	<u>PN 40</u>			
	100		32726	36362					
	150		54954	61060					
	200		83337	88295	129492	169494			
	250		91714	97269	157270	198726			
	300		114962	121800	191459	242572			
	350		135304	143424	217786	264795			
	400		164364	174194	220520	286762			
	500		208982	221634	279496	367792			
	600		313546	332395	412024	532563			
	700		452569	493551	603279	765019			
	800		565875	616721	760709	963725			
5	Manufacture, supply and delivery of DI (Ductile Iron) Wafer Butterfly valves conforming to IS 13095 (and its amendments). With hand lever below 150 mm, with Worm gear for 200 mm and above excluding transportation, CED and taxes etc, completed.								
	DIA IN MM		<u>PN 10</u>	<u>PN 16</u>					
	40		5610	5610					
	50		5610	5610					
	65		6071	6071					
	80		6620	7255					
	100		9307	9648					
	125		11696	11696					
	150		15795	16137					
	200		21430	21430					
	250		28518	28518					
	300		40127	40127					
	350		48695	52824					

6	Manufacture and supply of “Air Release – Vacuum Break – Surge Alleviation” Valve for potable water. Construction material Cylindrical Body of Ductile Iron GGG-50/SG-500-7, Three cylindrical Floats of High Density Poly Ethylene. Baffle Plate, Orifice venture and all construction bolts of stainless steel, coating internally and externally. Electrostatically applied epoxy (1) Flange connection as per IS 1538, (2) Female (BSP/NPT Threaded for sizes 25 mm				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	
	25 mm dia	14814	-	-	
	50 mm dia	-	47740	47740	
	80 mm dia	-	74896	74896	
	100 mm dia	-	82583	82583	
	150 mm dia	-	169358	169358	
	200 mm dia	-	254354	254354	
7	Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass & gear operated, for water and sewage applications& dimensions confirming to IS 14846-2000. Material construction Body, Bonnet, Wedge and Distance Piece of ductile iron GGG-50/SG500/7 DIN1693 or equivalent. Body seat, Wedge seat and Stem nut of Aluminum Bronze BS EN 1982 CC331G/equivalent, Stem of Stainless steel BS EN 100881.4057 or equivalent. 'O' Seal Body/Cover is of EPDM food grade Quality. Fastners is of Steel Sheraplex coated to BS 3692 Gr 8.8 or equivalent. Body and Bonnet internally and externally blue two pack epoxy to WIS 4-52-01 Class B. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538. ISI Marked				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>		
	DN700	1372190	1372190		
	DN800	1734934	1734934		
	DN 900	1961180	1961180		
	DN 1000	2197338	2197338		
	DN 1100	2994069	2994069		
	DN 1200	3403190	3403190		

NOTE:-All the prices are ex-go down /ex-factory. Excise duty and CST /Local Tax Extra as applicable at the time of supply. Packaging and Transportation extra at 5% on basic cost. The duties and taxes as applicable may be added as per rules at the time of preparation of estimate. The grade of DI & conformation to specifications shall be certified by a third party Quality Control Agency approved by indenting authority at the cost of supplier.

29. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2016-17

Sl.No.	Description	Unit	SoR for 2016-17.
1	2	3	4
I	Manufacture as per BIS:12592 (Part 1&2) Supply & Delivery of manhole covers and frames with ISI marking anywhere in T.G., F.O.R. destination including, loading, unloading & stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable. <u>I.S.I Mark</u>		Rs.
a)	M.D. -10 with 500mm diaclear opening	Each	1543
b)	H.D.-20 with 500mm diaclear opening	Each	1989
C)	H.D.-10with 560mmdia clear opening(New item)	Each	1560
d)	H.D.-20 with 560mm diaclear opening	Each	2133
e)	H.D.-35 with 560mm diaclear opening.	Each	2286
f)	24x24 MD 10	Each	1682
g)	24x18 MD 10	Each	1548
h)	24x24 HD 20	Each	1890
i)	24x18 HD 20	Each	1927
j)	Deviders 0.9 mtr.	Each	3957
II	Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in T.G. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding taxes such as sales tax, C.E.D and others etc., as applicable.	Each	166

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

30. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2016-17

Sl.No.	Description	Unit	2016-17.
1	2	3	4
1	Manufacture, Supply and Delivery of C.I Dismantling Joints with both side flange end suitable for installation in between flange end pipes. These rates are excluding Excise duty, Taxes and transportation charges etc., complete.		Rs.
	Nominal Dia. In MM		
	50	Each	4606
	80	Each	5042
	100	Each	6616
	125	Each	8507
	150	Each	9332
	200	Each	13234
	250	Each	15754
	300	Each	25208
2	Manufacture, Supply and Delivery of M.S. Dismantling Joints with both side flange end suitable for installation in between flange end pipes. Thickness as per IS: 7322. These rates are excluding Excise duty, Taxes and transportation charges etc., complete	Each	
	Nominal Dia. In MM		
	350		59785
	400		68507
	450		74325
	500		88959
	600		103515
	700		115161
	750		118075
	800		141365
	900		147482
	1000		176660
	1100		191245
	1200		220420
	1300		249592
	1400		279334
	1600		308566
	1800		365405
	2000		454730
3	Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.		5% on basic cost
Note:	The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.		

31. OTHER ITEMS FOR THE YEAR 2016-17

Sl. No.	Description	Unit	S.S. Rates for 2016-17.
1	2	3	4
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	335
2	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	176
3	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	134
4	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.		
	a) 3 MM THICK	Per Kg	108
	b) 6 MM THICK	Per Kg	108
5	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	129

**32. S o R FOR RUBBER RINGS SUITABLE FOR
SWG PIPES FOR THE YEAR 2016-17**

Sl. No.	Description	Unit	S.S Rates For 2016-17
1	2	3	4
1	Manufacture Supply of Rubber Rings made with EPDM Rubber Rings (seals according to EN681 AND ASTM 425) suitable for SWG pwipes confirming to IS No.651/1992 any where in T.G , For including cost of materials, loading, unloading , handling with company standard packing , transportation, unloading and stacking but excluding central excise duty and other taxes etc complete. The Rubber Rings shall be tested at the factory premises confirming to I.S No.651/1992		
	100 mm dia	Each	53
	150 mm dia	Each	80
	200 mm dia	Each	120
	230 mm dia	Each	146
	250 mm dia	Each	186
	300 mm dia	Each	213
	350 mm dia	Each	253

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**33. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD
FOR THE YEAR 2016-17**

Sl. No.	Description	Unit	S.S Rates For 2016-17
1	2	3	4
1	Railway crossing/Road crossing/Canal crossing by adopting trenchless technology tunneling work through specialized pipe jacking method by erecting the equipment to true to the alignment and gradient, by hydraulic pipe jacking technique complete including tunneling, excavation in all types of soils including hard rock and construction of RCC chambers suitable to casing pipe pits, and conveyance charges of machinery and other required materials but excluding cost of encasing pipe, in co-ordination with the concerned authorities as per approved drawings and directed by the Engineer-in – Charge.		
	800 mm dia	Rmt	26000
	900 mm dia	Rmt	27300
	1000 mm dia	Rmt	28600
	1100 mm dia	Rmt	29900
	1200 mm dia	Rmt	31200
	1300 mm dia	Rmt	32500
	1400mm dia	Rmt	35100
	1500 mm dia	Rmt	39000

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

34. S.S. RATES FOR GLASS FIBRE REINFORCED PLASTIC (GRP) PIPES

The PH & ME department deleted GRP pipes from the SSR 2013-14 and was not included in SoR 2014-15. The ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate GRP pipes from SoR-2015-16 for carrying out O&M works, accordingly the following rates are adopted and ENC(RWS) addressed this office, vide Lr no AE/DEE/TDWSP(Plg)/2015 dt 22.05.2015 to incorporate GRP pipes from SoR 2015-16 for O&M works.

Sl.No.	Description						
1	2						
1	GLASSFIBRE REINFORCED PLASTIC (GRP*) PIPES CONFORMING TO IS 12709 - 1994 Stiffness class 124 Kpa including transportation to any where in T.S. with jointing materials i.e., Reka couplings, Rubber Gaskets etc., for jointing pipes including cost of specials, loading, un-loading and stacking etc.,complete but excluding Central Excise duty and to be added sale tax.						
	Size	Unit	SoR For 2016-17				Rs.
			3 Bar	6 Bar	9 Bar	12 Bar	15 Bar
	300 mm dia	Metre	2453	2521	2592	2660	2776
	350 mm dia	Metre	2633	2670	2752	2829	2958
	400 mm dia	Metre	2931	3062	3176	3322	3453
	450 mm dia	Metre	3440	3573	3768	3954	4179
	500 mm dia	Metre	3787	3941	4165	4426	4679
	600 mm dia	Metre	4980	5186	5501	6060	6343
	700 mm dia	Metre	5971	6242	7001	7636	8215
	800 mm dia	Metre	7309	7653	8263	8990	9705
	900 mm dia	Metre	9136	9525	10347	11222	12153
	1000 mm dia	Metre	10950	11454	12320	13437	14482
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of transportation of water and emptying pipe line after completion of field testing.						
	Size	Unit	S.S. Rates for 2016-17.				Rs.
			3 Bar	6 Bar	9 Bar	12 Bar	15 Bar
	300 mm dia	Metre	107	107	107	107	107
	350 mm dia	Metre	160	160	160	160	160
	400 mm dia	Metre	240	240	240	240	240
	450 mm dia	Metre	293	293	293	293	293
	500 mm dia	Metre	373	373	373	373	373
	600 mm dia	Metre	399	399	399	399	399
	700 mm dia	Metre	452	452	452	452	452
	800 mm dia	Metre	532	532	532	532	532
	900 mm dia	Metre	585	585	585	585	585
	1000 mm dia	Meter	679	679	679	679	679

***Under any Circumstances the GRP pipes shall not be procured for laying new water lines, except O&M works.**

Note: 1) The material component is 50% of total cost.

2) The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

3) The cost of other specials like tees, reducers etc with flange will be charge @4 times per meter cost of pipe.

4) The cost of other special like plain ended tees, reducers etc will be charge @ 2.50 times per meter cost of pipe.

The methodology adopted for rates is as follows:

Percentage of raw materials in the finished product of the pipe

1) Hoop Glass Fibre Rovings H% (35%), 2) Chop Glass C% (40%) and 3) Resin R% (25%)

The cost of variation in Raw materials are:

1) Variation in cost of Hoop Glass : h%

2) Variation in cost of Chop Glass : c%

3) Variation in cost of Resin : r%

The percentage of variation in cost of pipe allowed is $(H \times h + C \times c + R \times r)/100$

The above raw materials rates are obtained from the principal manufacturers.

The rates of raw materials are:

1) Hoop Glass Fibre Rovings - Rs. 81.00/kg (Excluding CED&ST)

2) Chop Glass - Rs. 91.00/kg (Excluding CED&ST)

3) Resin - Rs.130.00/kg (Excluding CED&ST)

LATEST G.O. ON SEIGNIORAGE CHARGES

GOVERNMENT OF TELANGANA
ABSTRACT

Mines and Minerals – Revision of Rates of Seigniorage Fee and Dead Rent - Orders
– Issued.

INDUSTRIES AND COMMERCE (MINES.I) DEPARTMENT

G.O.MS.No. 67

Dated: 26/09/2015
Read the following

- 1) G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009
- 2) Government Memo No.418/M.I(1)/2015, dated:08.07.2015.
- 3) From the Director of Mines and Geology, Hyderabad Letter No.3305/MR/2014, dated:08.07.2015.

ORDER:

The following notification will be published in the Extra-Ordinary Issue of the Telangana Gazettee dated:the 26th September, 2015.

NOTIFICATION

In exercise of the powers conferred by Section Sub-Section (1) of 15 of the Mines & Minerals (Development & Regulation) Act, 1957 (Central Act No.67 of 1957), the Government of Telangana hereby issue the following amendments to the A.P. Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries & Commerce (Mines-I) Department, dated:04-09-1967 and as amended subsequently from time to time and as adapted vide G.O.Ms.No.55, Industries & Commerce (Mines.I) Department, dated:26.08.2015 as A.P. Minor Mineral Concession Rules, 1966 (Telangana Adaptation) order, 2015.

AMENDMENTS

In the said rules, under rule 10 for Schedules I and II the following shall be substituted, namely:

SCHEDULE-I
RATES OF SEIGNIORAGE FEE

Sl. No.	Name of the Minor Mineral	Unit	Rate of Seigniorage fee (In Rupees)
1	Building Stone, Rough Stone/ Boulders, Road Metal and Ballast	M3/MT	75/50
2	Dimensional Stone used for Kerbs & Cubes	MT	100/MT
3	Lime Kankar/ Limestone	MT	The rate of royalty as applicable to Limestone (other than LD Grade) in respect of major Minerals as per the 2 nd Schedule of the Mines & Minerals (D&R) Act, 1957.
4	Marble	M3/MT	250/100
5	Mosaic chips	MT	45
6	Morrum/Gravel & Ordinary Earth	M3/MT	30/20
7	Ordinary Sand	M3/MT	40/27
8	Shingle	M3/MT	25/17
9	Chalcedony Pebbles	M3/MT	75/50
10	Fullers Earth/ Bentonite	MT	150
11	Shale/Slate	MT	150
12	Rehmatti	MT	25
13	Limestone slabs	M2/MT	8/100

14	Brick Earth used in the manufacture of Bricks including Mangalore Tiles.	-	Rs.6000/- per kiln per annum	
15	Granite useful for cutting and polishing	Gangsaw above 270 x above 150	Below 270 X below 150	Equal and below 70
a	Black Granite	3000	2300	1200
b	Colour Granite	2300	2000	1000

The rates shown at Sl.No.15 shall come into force w.e.f., two years from the date of this G.O. until then the rates ordered in G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009 shall continue to be inforce.

SCHEDULE-II
Rates of Dead Rent

Sl. No.	Name of the mineral	Rate of Dead Rent per hectare per Annuam (in Rs.)
1	Black Granite	1,00,000
2	Colour Granite	80,000
3	Limestone other than classified as Major Minerals used for Lime burning or building construction purposes, Marble, Boulders, Building Stone including Stone used for Road Metal, Fullers Earth, Ballast Concrete and other Constructions purposes, Slate and Pyllites.	50,000
4	Gravel Morrur, Shingle, Limestone Slabs, used for Flooring purposes, Chalcedony Pebbles used in the building purposes, Limeshell for burning used for building purposes and Rehmatti.	40,000

2. The rate of royalty revised by Government of India with effect from 01.09.2014 in respect of (31) Major Minerals now declared as Minor Minerals and transferred to the State Government in the extra-ordinary issue of the Gazette Government of India Notification No.423(E) dated:10.02.2015 shall be continued, until further orders.

3. This order issues with the concurrence of Finance Department vide their U.O.No.11350/292/EBS-VII/I&C/2015, dated:18-09-2015.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

ARVIND KUMAR
SECRETARY TO GOVERNMENT & CIP

To,

The Commissioner of Printing, Stationary & Stores Purchase (Ptg. Wing)
Hyderabad. (He is requested to publish the above Notification in the Extra-Ordinary issue of Telangana Gazette, and arrange to send 1000 copies of the same to Government in Industries & Commerce (M.I) Department).

The Director of Mines and Geology, Telangana State, Hyderabad
The Vice Chairman & Managing Director, Telangana State Mineral Development Corporation Ltd., Hyderabad.

All the Joint Director/Deputy Director/Assistant Directors of Mines and Geology through the Director of Mines and Geology, Hyderabad

Copy to:

The Secretary to Government, Ministry of Mines, GoI

The Law (A) Department.

The Finance Department.

The Industries and Commerce (Mines.II) Department.

The P.S. to Hon'ble Minister for Mines and Geology.

The P.S. to Secretary to Government & CIP, Ind. & Com. Dept.,

SF/Sc.(C.No.418/M.I(1)/2015)

//Forwarded::By order//

SECTION OFFICER