

# GOVERNMENT OF TELANGANA



## COMMON SCHEDULE OF RATES AS PER T.S. REVISED STANDARD DATA FOR THE YEAR 2015-16 (Effective from 1<sup>st</sup> June, 2015)

**BOARD OF CHIEF ENGINEERS**

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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.5/13305/Vol.I Dt: 25.07.2015**

- Sub:** Schedule of Rates as per Telangana Revised Standard Data for the year 2015-16 -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) CE (PH) Lr.No. 146/T1/SoR/2015-16/2015 dt. 10-07-2015
  - 3) ENC (R&B) Lr.No. 20415/EE(R)/DEE1/AEE4/2014 dt. 27-06-2015
  - 4) CE(R&B) Lr. No. DEEII/AE8/SoR 2015-16/3/2015 Dt:25.07.2015
  - 5) ENC(PR) Lr No.752/AE/DEE-T/Technical/2015 Dt:16.07.2015
  - 6) Industrial Consumer Price Index points obtained from Commissioner, Labour Department
  - 7) Minutes of BOCEs meeting for Schedule of Rates held on 25.05.2015.

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The Government have approved Revised Standard Data vide ref 1<sup>st</sup> cited. The Schedule of Rates as per Telangana Revised Standard Data for the year 2015-16 is approved based on the following.

The draft schedule of rates for the year 2015-16 furnished by the ENC (IW), ENC (PR), ENC(R&B), CE(R&B) and CE (PH) were discussed and finalized in the annual BOCE meeting held on 25.05.2015 at 3:30 PM in BOCE's Conference hall.

Based on the BoCE's Discussions The Chief Engineer, Public Health vide reference 2<sup>nd</sup> has furnished Part-IV of Common SoR for Public Health works items and Public Health Materials

The Engineer-in-Chief (R&B) vide reference 3<sup>rd</sup> cited has furnished the Part-II of Common SoR for Roads & Bridge items for the year 2015-16.

The Chief Engineer (Buildings), R&B vide reference 4<sup>th</sup> cited has furnished the Part-III of Common SoR i.e., Buildings for the year 2015-16

The Engineer-in-Chief (IW) has furnished the draft rates proposed for Labour Rates and Basic data for Irrigation Items Part-I of Common SoR for the year 2015-16.

The Engineer-in-Chief (PR) vide reference 5<sup>th</sup> cited has furnished the draft rates for materials other than covered under irrigation basic data of Part-I of Common SoR for the year 2015-16.

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.1<sup>st</sup> 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.

During the BoCE's meeting held on 25-05-2015, 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's 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"

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 2015-16. The unauthorized printing &

selling of the SoR is strictly prohibited. The Schedule of Rates for 2015-16 will be in force until the new SoR comes in to force.

Any discrepancies found (or) corrections required in SoR 2015-16 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1st June of 2015.

The receipt of the proceedings may be acknowledged.

**Encl: SoR 2015-16 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, 25.07.2015  
Engineer-in-Chief (I.W.)  
Chairman, BOCE (SoR)

**I)** Copy communicated to the Principal Secretary to Govt., I&CAD Dept., B-Block, Secretariat Buildings, Hyderabad.

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

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

2) Chief Engineer (P.H.), Public Health Department.

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

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

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

6) Copy of C.D containing Schedule of Rates 2015-16 & 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, 25.07.2015  
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 and Cement shall be from the nearest market place to the project area**

**3)** Further, the CGG has also developed estimate preparation package to use in the preparation of estimates duly making provision for incorporation of applicable lead & lift for different materials, Area allowances for labour, Dewatering charges and VAT as additional.

**4)** 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.

**5)** 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.**

**6)** 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.

Sd/- J.Vijaya Prakash, 25.07.2015  
Engineer-in-Chief (I.W.)  
Chairman, BOCE (SoR)

# **PART-I IRRIGATION & CAD WORKS**



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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 for Greater Hyderabad (up to a belt of 12 Kms. from Municipal Corporation limits).
- b) 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:**

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), Takkalapally 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 IN**

**RESTRICTED 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.198 (Industries and Commerce Dept.) dt: 13.08.2009. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

# **LABOUR RATES**

**LABOUR RATES**

<b>Sl No.</b>	<b>CATEGORY OF WORKER</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>I.</b>	<b>SKILLED CATEGORY:</b>	
1	Bar bender	490
2	Black smith / Tin smith / Rivetor	415
3	Blaster ( Licensed )	480
4	Carpenter CI- I	415
5	Electrician ( Licensed )	480
6	Fitter CI- I	415
7	Floor Polisher / Tile Layer	415
8	Foreman	480
9	Gauge reader	400
10	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	400
11	Mason CI- I / Brick layer CI- I	415
12	Mechanic CI- I	415
13	Operator Air compressor / DG set	415
14	Operator Batching plant	480
15	Operator Bus/Ambulance/ Lorry/ Tanker	480
16	Operator Concrete / Asphalt mixer	415
17	Operator Concrete / Asphalt paver	415
18	Operator Concrete pump / Placer/ ice plant	415
19	Operator Core drilling machine	480
20	Operator Crane/ Tower crane/ Cable way	480
21	Operator Drilling jumbo / Loco / Winch	415
22	Operator Grouting/ Guniting/ Shotcreting	415
23	Operator Jackhammer/Pneumatic tamper	415
24	Operator Pump / Ventilation fan	415
25	Operator Lathe/Drilling/Shearing machine	480
26	Operator Bending / Planing machine	415
27	Operator Road roller	415

<b>Sl No.</b>	<b>CATEGORY OF WORKER</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>
28	Operator Shovel / Scraper / Dozer	480
29	Operator Spillway / Sluice gate	415
30	Operator Crusher / Conveyor / Mucker	415
31	Operator Tipper / Dumper / Transit mixer	480
32	Operator Concrete vibrator	415
33	Operator Vibratory plain / pad foot roller	415
34	Operator Wagon drill / Drifter	480
35	Painter CI- I	480
36	Plumber / Pipe fitter	480
37	Sarang / Khalasi	415
38	Spun pipe moulder	415
39	Stone chiseller CI- I / Stone cutter CI- I	415
40	Struct. steel Fabricator / Marker / Erector	480
41	Welder / Gas Cutter	415
42	Welder (X-ray quality)	480
<b>II.</b>	<b>SEMI SKILLED CATEGORY:</b>	
1	Asphalt Sprayer / Boiler attendant	370
2	Bhisti	370
3	Boatman with boat	390
4	Carpenter CI- II / Erector shuttering	370
5	Cartman with double bullock cart	425
6	Cartman with single bullock cart	400
7	Chavali / Navagani	370
8	Crowbarman / Jumper man	370
9	Fitter CI- II	370
10	Gang man / Head / Survey mazdoor	370
11	Gardener / Trained mali	370
12	Air compressor / DG set	370
13	Helper Batching plant	370
14	Helper Blasting	370

Sl No.	CATEGORY OF WORKER	S. Rate for 2015-16
1	2	3
15	Helper Bus/ Ambulance/ Lorry/ Tanker	370
16	Helper Bending/Shearing/Planing machine	370
17	Helper Carpenter	370
18	Helper Concrete / Asphalt mixer	370
19	Helper Concrete / Asphalt paver	370
20	Helper Core drilling machine	370
21	Helper Crane/ Tower crane/ Cable way	370
22	Helper Drilling jumbo / Loco / Winch	370
23	Helper Fitter / Fabrication/Electrician	370
24	Helper Grouting/ Guniting/ Shotcreting	370
25	Helper Jack hammer / Pneumatic tamper	370
26	Helper Laboratory / Instrumentation	370
27	Helper Road roller	370
28	Helper Shovel / Scraper / Dozer	370
29	Helper Crusher / Conveyor / Mucker	370
30	Helper Tipper / Dumper/ Transit mixer	370
31	Helper Vibrator	370
32	Helper Vibratory plain/ pad foot roller	370
33	Helper Wagon drill/ Drifter	370
34	Lineman Electric / Telephone	370
35	Mason Cl- II / Brick layer Cl-II	370
36	Mechanic Cl- II	370
37	Painter Cl- II	370
38	Patkari / Neeraganti / Sowdy	370
39	Stone Chiseller Cl- II	370
40	Stone breaker / Hammer man	370
41	Valve man / Canal sluice operator	370
<b>III.</b>	<b>UN-SKILLED CATEGORY:</b>	
1	Cement / Asphalt handling mazdoor	310
2	Civic worker	310
3	<b>Man mazdoor</b>	310

Sl No.	CATEGORY OF WORKER	S. Rate for 2015-16
1	2	3
4	Woman mazdoor	310
5	Watchman	310
<b>IV. OTHER CATEGORY:</b>		
1	Care-taker / conductor / Lift Attender	380
2	Cook / Mess man	380
3	Dhobi	380
4	Diploma Engineer / Surveyor	590
5	Diver with headgear	480
6	Graduate / Laboratory Assistant	480
7	Graduate Engineer/ Geologist	790
8	Horticulture Assistant / Photographer	400
9	ITI certificate holder / Tracer / Printer	475
10	Literate mazdoor	375
11	Stenographer / Computer Operator	520
12	Telephone / Wireless Operator	475
13	Typist / Job Typist	475
14	CAD operator with Diploma in Engineering/General degree with CAD certificate	650
15	Jeep Driver	465
16	Data Processing Operator	650
<p><b>Note:</b> - 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.</p>		

# **BASIC INPUT DATA FOR IRRIGATION WORK ITEMS**

**STATEMENT OF RATES FOR MATERIALS  
FOR THE YEAR : 2015-16  
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for fixing market rates for materials.
2. The rate for materials is inclusive of all taxes, duties and other local levies.
3. The rates for materials are 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.

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2015-16
1	2	3	4
1	Acetylene gas	cum	330.00
2	Asphalt 80/100 Grade	Kg	45.00
3	Binding wire	Kg	70.00
4	Burnt stone slab 10 cm thick	sqm	310.00
5	Cement 43 Gr/53 Gr <b>Note: As per Monthly rate fixed by Sub-Committee.</b>	tonne	6300.00 <b>(Rate for 5/2015)</b>
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	1210
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	1145
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	635
	The aggregate rates mentioned above (from Sl.No.7 to Sl.No.10) are <b>exclusive of Seigniorage charges but</b> 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)		
11	Coir brush	Each	40

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
12	Copper sheet 16 SWG	kg	680
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	22
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	28
15	Curing Compound	Ltr	130
16	D – cord	Rm	10
17	Delay - noiseless trunk	Each	21
18	Detonating fuse coil	Rm	11
19	Detonating shock tube / Cord relays	Rm	45
20	Detonator delay type	Each	23
21	Detonator electric	Each	13
22	Detonator ordinary	Each	7
23	Empty cement bag	Each	5
24	Explosive ANFO	kg	48
25	Explosive ANFO high strength booster	kg	68
26	Explosive small dia ( Kelvex-220 or equivalent)	kg	70
27	Fine aggregate/ sand (un-screened) for Concrete, Filtering items, Filling and Blindage (excluding Seigniorage charges)	cum	560 (Variation of Rates as fixed by TSMDC)
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items (excluding Seigniorage charges)	cum	760 (as per Local Marcket Rate)
29	Geo-textile ( filter fabric ) 160 gsm	sqm	110
30	Geo-textile ( filter fabric ) 200 gsm	sqm	132
31	Geo-textile ( filter fabric ) 250 gsm	sqm	154
32	G I Pipe 100 mm dia B Class	Rm	785
33	G I Pipe 15 mm dia A class	Rm	110
34	G I pipe 25 mm dia A class	Rm	180
35	G I pipe 40 mm dia B class	Rm	290
36	G I pipe 50 mm dia A class	Rm	320

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2015-16
1	2	3	4
37	G I Pipe 80 mm dia B Class	Rm	490
38	G.I Bolts / Nuts and Washers	kg	106
39 (a)	G.I sheet ( plain )	tonne	63000
39 (b)	G.I sheet (Corrugated )	tonne	66000
40	Hariyala turfing sods	sqm	28
41	Hectometer stone one line dressed	Each	260
42	Hemp yarn	kg	72
43	Honne wood planks	cum	56700
44	Hume pipe with collar 150 mm dia	Rm	350
45	Hume pipe with collar 300 mm dia	Rm	700
46	J- Bolts 30 cm long	Each	35
47	Jungle wood planks	cum	24600
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	97
53	LDPE sheet ( Geo membrane ) 750 micron thick	sqm	137
54	LDPE sheet ( Geo membrane ) 1000 micron thick	sqm	189
55	M S Bolts / Nuts / Washers	kg	90
56	Murum(including loading charges <b>but excluding</b> Seigniorage charges )	cum	115
57	Oxalic acid	Ltr	80
58	Oxygen gas	cum	45
59	PVC sealing strip	Rm	47
60	PVC water stopper 310 mm wide	Rm	485
61	PVC pipe of 100 mm dia (4 Kg/cm <sup>2</sup> )	Rm	175
62(a)	<b>Reinforcement steel (HYSD/TMT)</b> from primary producers like TATA, SAIL, VSP, Jindal as approved by Ministry of Steel. <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	40,000(Rate for 5/2015)

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2015-16
1	2	3	4
62(b)	<b>Reinforcement steel (HYSD/TMT)</b> BIS approved secondary producers confirming to IS:1786-2008 must have valid licence and well established TMT process of either Thermax, Tempcore, EvconTurbo & Turboquench.	tonne	<b>Note: As per Monthly rate fixed by Sub-Committee</b>
63	Resin bond Cement capsule	Each	65
64	Rough stone 20 x 20 x 75 cm ( Including Loading charges <b>but excluding</b> Seigniorage Charges)	Each	23
65(a)	Shahabad stone slab polished (including loading charges <b>but excluding</b> Seigniorage charges)	sqm	240
65(b)	Shahabad stone slab non- polished (including loading charges <b>but excluding</b> Seigniorage charges)	sqm	140
66	Stone chips (at dump yard/Spoil)(including loading charges <b>but excluding</b> Seigniorage charges)	cum	185
67	Stone chips ( at quarry )(including loading charges <b>but excluding</b> Seigniorage charges)	cum	360
68	Structural steel angle / channel / beam / bars <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	40,000(Rate for 5/2015)
69	Structural steel plate / flats <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	40000(Rate for 5/2015)
70	Super Plasticizer (Conplast RP-264 or equivalent )	kg	95
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	420
74	Tar felt joint filler board 20 mm thick	sqm	650
75	Through stones 20 x 20 x 30 to 45 cm (including loading charges <b>but excluding</b> Seigniorage charges)	Each	23
76	Through stones 25 x 25 x 45 to 60 cm long (including loading charges <b>but excluding</b> Seigniorage charges)	Each	39
77	Through stones 30 x 30 x 65 to 75 cm long (including loading charges <b>but excluding</b> Seigniorage charges)	Each	59
78	Un-coursed rubble stones ( at dump yard /Spoil) (including loading charges <b>but excluding</b> Seigniorage charges)	cum	165
79	Un-coursed rubble stones ( at quarry )( including loading charges <b>but excluding</b> Seigniorage charges)	cum	330
80	Water proofing compound	kg	75
81	Welding electrodes 4 mm dia	Each	11
82	Wire brush	Each	41

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
83	Wire mesh 20 gauge	sqm	220
84	Zinc chromate red oxide primer paint	Ltr	175
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	185
89	a) Cost of hdpe (75mm dia) (6 kg/cm <sup>2</sup> )	Rm	220
	b) light black MS casing pipe 80mm dia (8mm thick)	Rm	670
90	welded steel wire fabric 100X100X5 mm size	Kg	165
91	Protective Mastic	Ltr	483
92	Solventless coal tar epoxy (brown)	Ltr	310
93	Excavaton of drain with Excavator	Cum	37

**ADDITIONAL MATERIALS FOR G A T E S  
& HOISTS FOR THE YEAR: 2015-16**

**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 2015-16
1	2	3	4
1	Alloy steel ( IS : 1570-carbon steel ) shafts	Kg	230
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	360
5	a) Bronze (IS:305)bearings/bushes	Kg	920
	b) Aluminum alloy(IS:305)bearings/bushes	Kg	912
6	Cast iron blocks	Kg	80
7	Cast steel drums / gears	Kg	220
8	Cast steel pinions	Kg	210
9	Cast steel wheels / pulleys / hubs / rollers / retainers	Kg	180
10	Chemical for de-greasing/ derusting/phosphate coating	Ltr	140
11	Coal tar epoxy paint	Ltr	220
12	Forged steel hooks / shackles	Kg	260
13	MS pipe 200 / 300 mm dia	Kg	175
14	MS pipe 32 mm dia	Rm	185
15	MS pipe 25 mm dia	Rm	150
16	Rubber bottom seal ( IS : 11855 )	Rm	780
17	Rubber side seal ( music note type Teflon claded ) ( IS : 11855 )	Rm	1670
18	Rubber side seal ( music note type uncladed ) ( IS : 11855 )	Rm	1210
19	Rubber side seal Z-type ( IS : 11855 )	Rm	1600

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2015-16
1	2	3	4
20	Rubber corner seal ( Teflon claded ) ( IS : 11855 )	Rm	1630
21	Rubber corner seal ( un claded ) ( IS : 11855 )	Rm	1155
22	Stainless steel plates / flats	Kg	275
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 6x36 constn ( IS : 2266 ) (Dia from 16mm to 42mm)	Kg	200
26	Zinc	Kg	180
27	Zinc rich ( zinc content : 90 % ) epoxy primer	Ltr	700

**MATERIALS FOR POWER SUPPLY WORKS  
FOR THE YEAR: 2015-16**

Sl No.	Description of Material	Unit	S. Rate for 2015-16
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: 2015-16**  
**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.

Sl No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2015-16
1	2	3	4
1	Agitator car / Transit mixer 2 cum ( excluding tyres )	Each	21,50,000
	tyres and tubes 6 sets		86,000
2	Air compressor 5 cmm electric	Each	7,10,000
3	Air compressor 7 cmm diesel	Each	9,50,000
4	Air compressor 7 cmm electric	Each	8,65,000
5	Air compressor 8.5 cmm diesel	Each	10,85,000
6	Air compressor 8.5 cmm electric	Each	11,20,000
7	Air compressor 15 cmm electric	Each	13,70,000
8	Angle Dozer 90 hp	Each	54,75,000
9	Batching plant 0.5 cum with accessories	Each	12,00,000
10	Batching plant 2 x 1.00 cum with accessories	Each	42,45,000
11	Batching plant 2 x 1.50 cum with accessories	Each	54,25,000
12	Bending machine	Each	5,30,000
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	1,50,000
17	Concrete mixer 300/200 ltr ( electric )	Each	1,45,000
18	Concrete mixer 600/400 ltr(diesel)	Each	2,60,000
19	Concrete mixer 600/400 ltr ( electric )	Each	2,55,000

Sl No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2015-16
1	2	3	4
20	Concrete paver 100 Sqm / hr	Each	23,61,000
21	Convey mucker ( excluding tyres )	Each	38,55,000
22	tyres and tubes 6 sets		86,000
	Core drilling machine	Each	11,00,000
23	Diesel generating set 30 KVA	Each	4,95,000
24	Diesel generating set 50 KVA	Each	6,40,000
25	Diesel Loco 45 hp	Each	21,20,000
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	1,90,000
31	Dewatering pump 20 hp electric	Each	1,00,000
32	Drifter	Each	10,58,000
33	Drilling jumbo ( excluding tyres )	Each	13,02,000
	tyres and tubes 6 sets		86,000
34	Dumper 4.5 cum ( excluding tyres )	Each	14,50,000
	tyres and tubes 6 sets		86,000
35	Geophysical Ele.resistivity meter	Each	4,75,000
36	Grouting pump	Each	1,02,000
37	Guniting / sand blasting equipment	Each	2,80,000
38	Ice plant with accessories 30 t / day	Each	22,80,000
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	7,80,000
45	Plate shearing machine up to 12 mm	Each	4,25,000

Sl No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2015-16
1	2	3	4
46	Pneumatic placer 0.5 cum	Each	5,80,000
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	8,50,000
51	Shovel 0.50 cum 75 hp	Each	37,50,000
52	Shovel 0.85 cum 110 hp	Each	63,80,000
53	Stationery derrick crane 5 t	Each	6,53,000
54	Tipper 5 cum ( excluding tyres )	Each	16,25,000
	tyres and tubes 6 sets		86,000
55	Tipping tub 1.5 cum	Each	2,40,000
56	Tower crane 5 tonne	Each	74,75,000
57	Transformer 250 KVA	Each	4,25,000
58	Truck 10 t ( excluding tyres )	Each	14,75,000
	tyres and tubes 6 sets		86,000
59	Truck mounted derrick crane 5 t ( excluding tyres )	Each	19,60,000
	tyres and tubes 6 sets		86,000
60	Upright drilling machine	Each	56,000
61	Ventilation fan 20 hp	Each	2,60,000
62	Vibratory pad foot roller 8 t	Each	29,50,000
63	Wagon drill	Each	6,50,000
64	Water tanker 8000 ltr (excluding tyres)	Each	14,22,000
	tyres and tubes 6 sets		86,000
65	Welding set	Each	48,000
	Winch 35 hp electric	Each	3,75,000
66	Hydraulic Truck Crane 30T	Each	1,44,84,250
67	tyres and tubes 6 sets		1,85,220
68	Hydraulic Truck Crane 16T	Each	1,03,90,875
	tyres and tubes 6 sets		1,85,220
69	Heavy Duty Airless Spray Painting Equipment	Each	4,87,770

**ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR: 2015-16**

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
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	2226
6	Jack hammer drill rod 1.5 m	Each	4150
7	Jack hammer drill rod 2.5 m	Each	6400
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	5150
12	T.C. Cross bit 50 mm dia	Each	5000
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: 2015-16**

1. The rate provided for ' SUNDRIES' (Lump sum 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.

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
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	59.1
5	<b>Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A): General-11 KVA category)</b>	Kwhr	8.6
6	Excise duty on Gates / Hoist supplies	%	0%
7	Insurance charges on machinery	% / annum	1%
8	Interest on capital cost	% / annum	11.00%
9	Lubricants	Ltr	275
10	Petrol	Ltr	74.73
11	Rivets	Kg	100
12	Road tax on transport vehicles	Rs./annum	As per RTI
13	Shalimastic sealing compound	Kg	105
14	Shutter oil	Ltr	45
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
19	Elbows / Nipple / Plugs etc.,	LS	17
20	Soldering materials	LS	17

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
21	Steam circulation arrangement	LS	17
22	Fuel charges ( gas for heating )	LS	17
23	Vulcanizing materials	LS	17
24	Other accessories / controls / junctions	LS	deleted
25	Miscellaneous fittings / switches etc	LS	deleted
26	Anchors / supports for cables / lights	LS	deleted
27	Civil works for foundations / pedestals / duct etc	LS	deleted
28	Gas cutting set ( 2 No's 15 m hose and nozzle unit )	Each	14,250
29	Grease	Kg	260
30	Welding holder set ( cable / holder / gloves / mask etc )	Each	7650
31	Use rate of ropes	LS	150

**MATERIALS FOR GATES AND HOISTS FOR THE YEAR: 2015-16**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Worm reducers	Each	2,24,400
2	Electric motor 20 hp(Double Shaft)	Each	1,21,000
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	1,95,800
11	Ele-magnetic brake	Each	35,200
12	Electric cable / switch / control panel etc	LS	50,380
13	Wire rope sockets	Each	4,620

**Materials other than covered under irrigation**  
**For the year 2015-16**  
**GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for fixing market rates for materials.
2. The rate for materials is inclusive of all taxes, duties and other local levies.
3. The rates for materials are **exclusive of** Seigniorage charges wherever applicable.

The rates for materials, except those for which lead charges are admissible as per the

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-002	Quarried stone 150 - 200 mm size for Hand Broken <b>(Excluding Seigniorage charges)</b>	Cum	147
M-003	Boulder with minimum size of 300 mm for Pitching <b>(Excluding Seigniorage charges)</b>	Cum	164
M-004	Coarse sand for filling <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.27 of material of I&CAD
M-005	Coarse sand for mortar <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.27 of material of I&CAD
M-006	Fine Sand <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.28 of material of I&CAD
M-007	Murum <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.56 of Material rates of I&CAD.
M-008	Gravel/Quarry spall <b>(Excluding Seigniorage Charges)</b>	Cum	103
M-009	Granular Material or hard murum for GSB works	Cum	Deleted
M-010	Granular Material or hard murum for GSB works <b>(Excluding Seigniorage charges)</b>	Cum	92
M-011	Fly ash conforming to IS: 3812 ( Part II & I)	Cum	72
	For item No.M-012 to M-055 the note shall be as follows 1) The rates mentioned are <b>exclusive</b> of Seigniorage charges <b>but inclusive of</b> blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted. 2) If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing charges shall be deducted. 3)The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-012	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) <b>(excluding Seinorage Charges)</b>	Cum	345
M-013	Close graded Granular sub-base Material 53 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	667
M-014	Close graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	685
M-015	Close graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	711
M-016	Close graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	592
M-017	Close graded Granular sub-base Material 9.5 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	582
M-018	Close graded Granular sub-base Material 4.75mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	510
M-019	Close graded Granular sub-base Material 4.75mm to 75 micron mm <b>(excluding Seinorage Charges)</b>	cum	489
M-020	Close graded Granular sub-base Material 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	489
M-021	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve. <b>(excluding Seinorage Charges)</b>	Cum	357
M-022	Coarse graded Granular sub-base Material 2.36 mm & below <b>(excluding Seinorage Charges)</b>	Cum	438
M-023	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm <b>(excluding Seinorage Charges)</b>	cum	474
M-024	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	474
M-025	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	561
M-026	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	619
M-027	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	620
M-028	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	685
M-029	Coarse graded Granular sub-base Material 53 mm to 26 .5mm <b>(excluding Seinorage Charges)</b>	Cum	850
M-030	Aggregates below 5.6 mm <b>(excluding Seinorage Charges)</b>	Cum	557
M-031	Aggregates 22.4 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	914
M-032	Aggregates 22.4 mm to 5.6 mm <b>(excluding Seinorage Charges)</b>	Cum	1040
M-033	Aggregates 45 mm to 2.8 mm <b>(excluding Seinorage Charges)</b>	Cum	667

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-034	Aggregates 45 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.9 of Material rates of I&CAD.
M-035	Aggregates 53 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )	Cum	914
M-036	Aggregates 53 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )	Cum	872
M-037	Aggregates 63 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )	Cum	714
M-038	Aggregates 63 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )	Cum	662
M-039	Aggregates 90 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.10 of Material rates of I&CAD.
M-040	Aggregates 10 mm to 5 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.7 of Material rates of I&CAD.
M-041	Aggregates 11.2 mm to 0.09 mm ( <b>excluding Seiniorage Charges</b> )	Cum	704
M-042	Aggregates 13.2 mm to 0.09 mm( <b>excluding Seiniorage Charges</b> )	Cum	798
M-043	Aggregates 13.2 mm to 5.6 mm ( <b>excluding Seiniorage Charges</b> )	Cum	919
M-044	Aggregates 13.2 mm to 10 mm( <b>excluding Seiniorage Charges</b> )	Cum	1029
M-045	Aggregates 20 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.8 of Material rates of I&CAD.
M-046	Aggregates 25 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )	Cum	1129
M-047	Aggregates 19 mm to 6 mm ( <b>excluding Seiniorage Charges</b> )	Cum	1040
M-048	Aggregates 37.5 mm to 19 mm( <b>excluding Seiniorage Charges</b> )	Cum	1103
M-049	Aggregates 37.5 mm to 25 mm( <b>excluding Seiniorage Charges</b> )	Cum	1145
M-050	Aggregates 6 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	735
M-051	Aggregates 10 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	935
M-052	Aggregates 13.2/12.5 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1097
M-053	Aggregates 20 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1365
M-054	Aggregates 25 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1313

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-055	Aggregates 40 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	845
M-056	AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	Acrylic polymer bonding coat	Litre	474
M-058	Aluminum Paint	Litre	330
M-059	Aluminum alloy plate 2mm Thick	Sqm	381
M-060	Aluminum alloy/Galvanized steel	Tone	70,931
M-061	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	968
M-062	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market rate
M-063	Barbed wire	Kg	80
M-064	Bearing (Cost of parts)	No's	570
M-065	Bearing (Cast steel rocker bearing assembly of 250 tonne )	No's	785
M-066	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm <sup>3</sup>	As per Market Competitive rates.
M-067	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's	
M-069	Bearing (PTFE sliding plate bearing assembly of 80 tonnes )	No's	
M-070	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	Bentonite	Kg	7.5
M-072	Binding wire	Kg	Rate as per item no.3 of Material rates of I&CAD.
M-073	Bitumen ( Cationic Emulsion )	Tone	As per rates fixed by R&B Dept based on refinery rates
M-074	Bitumen (60-70 grade)(Excluding taxes)	Tone	
M-075	Bitumen (80-100 grade ) (Excluding taxes)	Tone	

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-076	Bitumen (Cutback )	Tone	As per rates fixed by R&B Dept based on refinery rates
M-077	Bitumen (emulsion)(Excluding taxes)	Tone	
M-078	Bitumen (modified graded)	Tone	
M-079	Brick	Each	As per Building SSR
M-080	C.I. shoes for the pile	Kg	54
M-081	Cement	Tone	Rate as per item no.5 of Material rates of I&CAD.
M-082	Cold twisted bars (HYSD/TMT Bars)	Tone	Rate as per item no.62 of Material rates of I&CAD
M-083	Collar for joints 300 mm dia	No's	165
M-084	Compressible Fibre Board(20mm thick)	Sqm	541
M-085	Connectors/ Staples	Each	82
M-086	Copper Plate(12m long x 250mmwide)	Kg	536
M-087	Corrosion resistant Structural steel	Tone	59,225
M-088	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	206
M-089	Credit for excavated rock found suitable for use	Cum	194
M-090	Curing compound	Liter	130
M-091	Delineators from ISI certified firm as per the standard drawing given in IRC - 79	Each	As per local competitive quotations
M-092	Earth Cost or compensation for earth taken from private land( <b>Excluding Seigniorage Charges</b> )	Cum	40
M-093	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations
M-094	Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item No. 21 of I&CAD
M-095	Epoxy compound with accessories for preparing epoxy mortar	Kg	361
M-096	Epoxy mortar	Kg	118
M-097	Epoxy primer	Kg	613
M-098	Epoxy resin-hardner mix for prime coat	Kg	633
M-099	Flag of red color cloth 600 x 600 mm	Each	25

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-100	Flowering Plants	Each	40
M-101	Galvanized MS flat clamp	No's	195
M-102	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	180
M-103	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	932
M-104	Gelatin 80%	Kg	73
M-105	Geo grids	Sqm	As per local competitive quotations
M-106	(a)Geo membrane 500 micron thick	Sqm	Rate as per item No. 52 of I&CAD
	(b) Geo membrane 750 micron thick	Sqm	Rate as per item No. 53 of I&CAD
	(c) Geo membrane 1000 micron thick	Sqm	Rate as per item No. 54 of I&CAD
M-107	Geo nets	Sqm	As per local competitive quotations
M-108	(a)Geo textile 160 gsm	Sqm	Rate as per item No. 29 of I&CAD
	(b) Geo textile 200 gsm	Sqm	Rate as per item No. 30 of I&CAD
	(c) Geo textile 250 gsm	Sqm	Rate as per item No. 31 of I&CAD
M-109	Geo textile filter fabric	Sqm	As per local competitive quotations
M-110	GI bolt 10 mm Dia	No's	23
M-111	Grouting pump with agitator	Hour	Rate covered in hire charges of machinery of Irrigation items
M-112	Grass (Doob)	Kg	6
M-113	Grass (Fine)	Kg	8
M-114	HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115	HDPE pipes 90mm dia	Metre	
M-116	Hedge plants	Each	Rate as per local competitive quotations
M-117	Helical pipes 600mm diameter	Metre	
M-118	Hot applied thermoplastic compound	Litre	
M-119	HTS strand	Tone	

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-120	Joint Sealant Compound	Kg	Rate as per local competitive
M-121	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	90
M-122	LDO for steam curing	Litre	65
M-123	M.S. Clamps	Kg	Deleted
M-124	M.S. Clamps	Kg	Rate as per local competitive quotations
M-125	M.S. shoes @ 35 Kg per pile of 15 m	Kg	Rate as per local competitive quotations
M-126	Mild Steel bars	Tone	46,865
M-127	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam,2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-128	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-129	Nipples 12mm	No's	20
M-130	Nuts and bolts	Kg	100
M-131	Paint	Litre	255
M-132	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	Paving Fabric	Sqm	
M-134	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	Perforated pipe of cement concrete, internal dia 100 mm	Metre	
M-136	Pesticide	Kg	Rate as per local competitive

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
			quotations
M-137	R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item
M-138	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	Rate as per local competitive quotations
M-139	Plastic tubes 50 cm dia , 1.2 m high	No's	
M-140	Polymer braids	Metre	
M-141	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	
M-142	Pre-coated stone chips of 13.2 mm nominal size	Cum	
M-143	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Metre	Rate as per local competitive quotations
M-144	Pre-moulded asphalt filler board	Sqm	Rate as per local competitive quotations
M-145	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	
M-146	Primer	Kg	
M-147	Quick setting compound	Kg	As per local market rate
M-148	Random Rubble Stone( <b>Including Loading Charges but excluding Seignorage Charges</b> )	Cum	252.00
M-149	RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia	Metre	Rate as per PH items
M-150	RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre	
M-151	RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre	
M-152	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-156	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	Rate as per local competitive quotations
M-157	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre	
M-158	Rivets	Each	7.00
M-159	Sand bags (Cost of sand and Empty cement bag)	No's	18.00
M-160	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	Scrap tyres of size 900 x 20	No's	80.00
M-162	Seeds(Grass)	Kg	18.00
M-163	Cost of Selected earth (Excluding Seignorage Charges)	Cum	Rate as per Item No. M-092
M-164	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations Rate as per local
M-165	Sheathing duct	Metre	
M-166	Shrubs	Each	15.00
M-167	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	Rate as per local competitive quotations
M-168	Sodium vapour lamp	Each	As per Building SSR
M-169	Square Rubble Coursed Stone(Including Loading Charges but excluding Seignorage charges)	Cum	2236.00
M-170	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	Rate to be obtained from Electricity/Municipal Departments Rate to be obtained from
M-171	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate As per local
M-173	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	Steel pipe 25 mm external dia as per IS:1239	Metre	288.00
M-175	Steel pipe 50 mm external dia as per IS:1239	Metre	561.00
M-176	Steel wire rope 20 mm	Kg	185.00
M-177	Steel wire rope 40 mm	Kg	211.00
M-178	Strip seal expansion join	Metre	Rate as per local competitive quotations

Sl. No.	Description	Unit	S. Rate for 2015-16
1	2	3	4
M-179	Structural Steel(HYSD/TMT bars)	Tone	Rate as per item no.62 of Material rates of I&CAD
M-180	Super plasticizer admixture IS marked as per 9103-1999	Kg	Rate as per item no.70 of Material rates of I&CAD
M-181	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	Rate as per local competitive quotations
M-182	Through and bond stone (a) 20X20x30 to 45 cm long	Each	Rate as per item no.75 of Material rates of I&CAD.
	Through and bond stone (b) 25X25x45 to 60 cm long	Each	Rate as per item no.76 of Material rates of I&CAD.
	Through and bond stone (c) 30X30x65 to 75 cm long	Each	Rate as per item no.77 of Material rates of I&CAD.
M-183	Tie rods 20mm diameter	No's	54.00
M-184	Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185	Timber	Cum	
M-186	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations Rate as per local competitive
M-187	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	
M-188	Un slaked lime	Tonne	2616.00
M-189(a)	Water charges(Urban)	KiloLitre	103
b)	Water charges(Rural)	KiloLitre	77
M-190	Water based cement paint	Litre	As per Building SSR
M-191	Welded steel wire fabric	Kg	155.00
M-192	Wire mesh 50mm x 50mm size of 3mm wire	Kg	252.00
M-193	Wooden ballies 2" Dia for bracing	Each	As per Building SSR
M-194	Wooden ballies 8" Dia and 9 m long	Each	
M-195	Wooden packing	Cum	1265.00
M-196	Wooden staff for fastening of flag 25 mm dia, one m long	Each	75.00

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Item 8.3	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	1.60
Item 8.8	Painting Two Coats on New Concrete Surfaces	Sqm	As per Building SSR
Item 8.9	Painting angle iron post Two Coats	Sqm	As per Building SSR
<b>Miscellaneous Items</b>			
1	Benching old embankment slopes 0.45 X 0.45 M	RM	5
2	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges with 14% overhead charges and contractors profits.	per bag	26
3	Rough stone for revetment 225mm thick ( including Loading charges but excluding Seigniorage charges)	Cum	160
4	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	2
5	Thinner	Ltr	80

# Conveyance Charges of Material

**CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2015-16**

**(COMMON TO ALL DEPARTMENTS)**

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE YEAR: 2015-16**

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 25-06-2015, 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: 2015-16**

Sl No.	Total distance ( Total lead includes initial lead )	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/ 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	50.30	29.40	64.00
3	Total lead up to 150 m	100.60	58.70	128.10

**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: 2015-16**

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

Sl 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	31.30	30.20	18.90	44.50	18.70	50.40
2	Lead up to 2 km	43.90	42.30	26.50	62.30	26.10	70.60
3	Lead up to 3 km	58.50	58.50	36.60	86.10	34.80	94.10
4	Lead up to 4 km	71.10	71.10	44.40	104.50	42.30	114.20
5	Lead up to 5 km	83.60	83.60	52.20	122.90	49.70	134.40
6	for Every km beyond 5 km up to 30 km	12.50	12.50	7.80	18.40	7.50	20.20
7	for Every km beyond 30 km	10.50	10.50	6.50	15.40	6.20	16.80

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

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

Sl 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/1000 No
1	2	3	4	5	6	7
1	Loading	16.80	33.50	55.40	66.30	46.10
2	Unloading	8.40	16.75	55.40	66.30	46.10

**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)**

Sl 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/1000 No
1	2	3	4	5	6	7
1	Loading	108.40	125.20	156.10	167.10	212.40
2	Unloading	38.80	62.60	156.10	167.10	212.40

**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)**

Sl 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	52.00	103.90
2	Unloading	15.80	15.80

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

**F. LIFT CHARGES FOR MATERIALS BY HEAD LOAD**

Sl 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	5.90	4.20	7.80

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

# **HIRE CHARGES**

**HIRE CHARGES OF PLANT & MACHINERY FOR THE YEAR: 2015-16**

<b>Sl. No</b>	<b>Description of machinery</b>	<b>Unit</b>	<b>Hire charge in Rs</b>	<b>Fuel charge in Rs</b>	<b>Crew Charge in Rs.</b>	<b>Total in Rs</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Agitator car / Transit mixer 2 cum	Hour	758.40	893.90	265.20	1917.50
2	Air compressor 5 cmm ( electric )	Hour	108.30	259.80	153.10	521.20
3	Air compressor 7 cmm ( diesel )	Hour	241.30	731.40	195.90	1186.60
4	Air compressor 7 cmm ( electric )	Hour	131.90	346.40	153.10	631.40
5	Air compressor 8.5 cmm ( diesel)	Hour	275.60	914.20	195.90	1385.70
6	Air compressor 8.5 cmm ( electric)	Hour	170.80	433.10	153.10	757.00
7	Air compressor 15 cmm ( electric)	Hour	138.80	962.30	163.30	1264.40
8	Angle Dozer 90 hp	Hour	1715.50	625.30	221.00	2561.80
9	Batching plant 0.5 cum ( 6 Cum/hr)	Hour	114.60	115.50	318.20	548.30
10	Batching plant 2 x 1.00 cum (15 Cum/hr)	Hour	405.40	346.40	318.20	1070.00
11	Batching plant 2 x 1.50 cum ( 50 Cum/hr)	Hour	518.10	423.40	318.20	1259.70
12	Bending machine 3000 x 12 mm	Hour	42.60	115.50	112.50	280.60
13	Clamp shell and hoisting ropes	Hour	5.40	0.00	0.00	5.40
14	Concrete bucket 1.5 cum	Hour	15.80	0.00	0.00	15.80
15	Concrete hand mixer 45 / 30 ltr	Hour	5.50	0.00	0.00	5.50
16	Concrete mixer 300 / 200 ( diesel)	Hour	53.50	81.30	204.10	338.90
17	Concrete mixer 300 / 200 ltr ( electric)	Hour	51.70	38.50	204.10	294.30
18	Concrete mixer 600 / 400 ( diesel)	Hour	92.70	162.50	204.10	459.30
19	Concrete mixer 600 / 400 ltr ( electric)	Hour	91.00	77.00	204.10	372.10
20	Concrete paver 100 sqm / hr	Hour	356.50	0.00	391.90	748.40
21	Convey mucker	Hour	822.80	267.90	163.30	1254.00
22	Core drilling machine	Hour	319.00	243.80	265.20	828.00
23	Diesel generating set 30 KVA	Hour	65.80	650.10	122.50	838.40
24	Diesel generating set 50 KVA	Hour	85.10	975.20	122.50	1182..80
25	Diesel Loco 45 hp	Hour	381.60	548.50	153.10	1083.20
26	Dewatering pump 5 hp ( diesel )	Hour	10.20	81.30	103.60	195.10
27	Dewatering pump 5 hp ( electric )	Hour	3.00	38.50	77.70	119.20
28	Dewatering pump 10 hp ( diesel )	Hour	15.20	162.50	103.60	281.30

Sl. No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in	Total in Rs
1	2	3	4	5	6	7
29	Dewatering pump 10 hp ( electric)	Hour	6.70	77.00	77.70	161.40
30	Dewatering pump 20 hp ( diesel )	Hour	48.30	325.10	103.60	477.00
31	Dewatering pump 20 hp ( electric	Hour	12.30	154.00	77.70	244.00
32	Drifter	Hour	322.70	0.00	331.50	654.20
33	Drilling jumbo	Hour	368.40	43.90	163.30	575.60
34	Dumper 4.5 cum	Hour	580.70	409.60	212.20	1202.50
35	Geophysical Electric resistivity meter	Hour	99.00	0.00	0.00	99.00
36	Grouting pump	Hour	24.90	38.50	244.90	308.30
37	Guniting / sand blast equipment	Hour	110.10	0.00	204.10	314.20
38	Ice plant & accessories 30 t / day	Hour	170.20	1097.10	122.50	1389.80
39	Jack hammer	Hour	19.80	0.00	306.20	326.00
40	Needle vibrator 40 mm ( petrol )	Hour	7.60	20.60	146.90	175.10
41	Needle vibrator 40 mm ( electric )	Hour	8.00	7.70	146.90	162.60
42	Needle vibrator 60 mm ( petrol )	Hour	8.20	30.80	146.90	185.90
43	Needle vibrator 60 mm ( electric )	Hour	9.70	11.50	146.90	168.10
44	Planing machine 4 m stroke	Hour	117.80	115.50	195.90	429.20
45	Plate shearing machine up to 12 mm	Hour	41.90	154.00	132.60	328.50
46	Pneumatic placer 0.5 cum	Hour	171.10	0.00	80.90	252.00
47	Pneumatic tamper	Hour	20.70	0.00	244.90	265.60
48	Pug cutting machine	Hour	6.40	3.80	0.00	10.20
49	Pusher leg	Hour	12.70	0.00	0.00	12.70
50	Road roller diesel 10 t	Hour	197.20	731.40	195.90	1124.50
51	Shovel 0.50 cum 75 hp	Hour	1003.10	487.60	221.00	1711.70
52	Shovel 0.85 cum 110 hp	Hour	1706.60	893.90	221.00	2821.50
53	Stationery derrick crane	Hour	86.10	0.00	0.00	86.10
54	Tipper 5 cum	Hour	446.70	307.20	165.80	919.70
55	Tipping tub 1.5 cum	Hour	64.20	0.00	0.00	64.20
56	Tower crane 5 tonne	Hour	867.10	200.20	176.80	1244.10
57	Transformer 250 KVA	Hour	5041.00	0.00	0.00	5041.00
58	Truck 10 t	Hour	414.10	307.20	165.80	887.10
59	Truck mounted derrick crane 5 t	Hour	519.70	307.20	165.80	992.70
60	Upright drilling machine/grinder	Hour	22.50	38.50	187.20	248.20
61	Ventilation fan 20 hp	Hour	11.50	154.00	26.80	192.30

<b>Sl. No</b>	<b>Description of machinery</b>	<b>Unit</b>	<b>Hire charge in Rs</b>	<b>Fuel charge in Rs</b>	<b>Crew Charge in</b>	<b>Total in Rs</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
62	Vibratory pad foot roller 8 t	Hour	1342.20	1056.40	244.90	2643.50
63	Wagon drill	Hour	188.50	0.00	265.20	453.70
64	Water tanker 8000 ltr	Hour	402.50	307.20	165.80	875.50
65	Welding set	Hour	16.00	92.40	0.00	108.40
66	Winch 35 hp ( electric )	Hour	129.40	188.60	244.90	562.90
67	Tractor with 2 T roller	Hour				345.00
68	Hydraulic Truck Crane 30T	Hour	3096.80	118.80	489.20	3704.80
69	Hydraulic Truck Crane 16T	Hour	2278.10	75.00	489.20	2842.30
70	Heavy Duty Airless Spray Painting Equipment	Hour	121.40			121.40

# ROADS & BRIDGE WORKS

Index	
PART-II	
<b>Roads &amp; Bridge Works</b>	
<b>S.No</b>	<b>Description</b>
1	Preamble
2	Labour Rates
3	Materials & Work Item Rates
4	Hire Charges of Plant & Machinery for Roads & Bridge Works
5	Conveyance Charges of Materials

# **PREAMBLE**

# PREAMBLE

## I.0 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 . ... 120% extra  
1.5 times or more than the width
- IV) Silt removal in restricted areas such ... 120% extra  
U. T's., Culverts and Syphons.
- 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 ... 75% extra  
of road boundary drains, model sections  
of canals.
- VII) High berm cutting of not more than ... 50% extra  
150 mm average thickness and  
sectioning for roads

**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.198 (industries and commerce department), dated 13.08.2009 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.

# LABOUR RATES

Sl.no	S.S. Item No.	Description	Unit (Per)	SoRate for 2015-16	Remarks
1	2	3	4	5	6
<b>(A) SKILLED WORKMEN</b>					
<b>First Class</b>					
1	a	Mason and stone cutter	Day	415	As per I&CAD (S.No.39)
2	b	Brick Layer	Day	415	As per I&CAD (S.No.11)
3	c	Carpenter	Day	415	As per I&CAD (S.No.4)
4	d	Painter	Day	480	As per I&CAD (S.No.35)
5	e	Plumber	Day	480	As per I&CAD (S.No.36)
6	f	Welder	Day	415	As per I&CAD (S.No.41)
7	g	Fitter	Day	415	As per I&CAD (S.No.6)
8	h	Electrician	Day	480	As per I&CAD (S.No.5)
9	1	Cook	Day	380	As per I&CAD (S.No.2) Other Category
10	2	Mechanic	Day	415	As per I&CAD (S.No.12)
11	5	Well Sinker	Day	420	
12	6	Blaster	Day	480	As per I&CAD (S.No.3)
13	3	Barbender	Day	490	As per I&CAD (S.No.1)
14	7	Tipper and Heavy Vehicle Driver above 12 T	Day	480	As per I&CAD (S.No.15)
15		Road Roller Driver (7.5 T to 12 T)	Day	415	As per I&CAD (S.No.27)
<b>Operator</b>					
16		Concrete Mixer	Day	415	As per I&CAD (S.No.16)
17		Vibrator	Day	415	As per I&CAD (S.No.32)
18		Jack Hammer	Day	415	As per I&CAD (S.No.23)
19		Driller	Day	480	As per I&CAD (S.No.34)
20	11	Pump operator	Day	415	As per I&CAD (S.No.24)
21	13	Wireless Operator	Day	475	As per I&CAD (S.No.12) Other Category
22	15	Jeep Driver	Day	465	As per I&CAD (S.No.15) Other Category
23	16	Work Inspector with I.T.I qualification	Day	475	As per I&CAD (S.No.9) Other Category

Sl.no	S.S. Item No.	Description	Unit (Per)	SoRate for 2015-16	Remarks
1	2	3	4	5	6
24	17	Work Inspector with LCE, LME,L.E.E qualification	Day	590	As per I&CAD (S.No.4) Other Category
25	18	Work Inspector with B.E (Civil Mechanical and Electrical qualification	Day	790	As per I&CAD (S.No.7) Other Category
26	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	400	As per I&CAD (S.No.10)
27	27 a(i)	Typist/Job Typist	Day	475	As per I&CAD (S.No.13) Other Category
28	a (ii)	Computer operator	Day	520	As per I&CAD (S.No.11) Other Category
29	b	"CAD Operator with Diploma in Engineering /General degree with CAD certificate"	Day	650	As per I&CAD (S.No.14) Other Category
<b>(B) SEMI –SKILLED WORKMEN</b>				-	
<b>SECOND CLASS</b>					
30	1	Mason	Day	370	As per I&CAD (S.No.35) Semi-Skilled
31	b	Brick Layer and Stone Cutter	Day	370	As per I&CAD (S.No.35) Semi-Skilled
32	c	Carpenter	Day	370	As per I&CAD (S.No.4) Semi-Skilled
33	d	Painter	Day	370	As per I&CAD (S.No.37) Semi-Skilled
34	i	Electrician	Day	370	As per I&CAD (S.No.23) Semi-Skilled
35	2	Caulker	Day	370	
36	4	Tinker	Day	370	
37	5	Sawyer	Day	370	
38	6	Brick-Moulder	Day	370	
39	7	Pot-tile turner	Day	370	
40	8	Pan-tile turner	Day	370	
41	9	Brick and Lime Kiln man/Glazier	Day	370	
42	10	Telephone Operator	Day	475	As per I&CAD (S.No.12) Other Category

Sl.no	S.S. Item No.	Description	Unit (Per)	SoRate for 2015-16	Remarks
1	2	3	4	5	6
43	13	Hammer Man	Day	370	As per I&CAD (S.No.40) Semi-skilled
44	14	Thatcher	Day	370	
45	15	Fireman	Day	370	
46	16	Cleaner/Helper	Day	370	
47	17	Stone Packer	Day	370	
48	18	Jawali	Day	370	
49	19	Ex-Service man/Goorkha watchman	Day	370	
50	20	Ratton Worker	Day	370	
51	21	Mate	Day	370	
52	1	Head Mazdoor (Mukaddar)	Day	370	As per I&CAD (S.No.10) Semi Skilled
<b>(C) UNSKILLED WORKMEN</b>					
53	2	Man Mazdoor	Day	310	As per I&CAD (S.No.3) Un-Skilled
54	3	Watch Man	Day	310	As per I&CAD (S.No.5) Un-Skilled
55	5	Woman Mazdoor	Day	310	As per I&CAD (S.No.4) Un-Skilled
56	6 (b)	Helper/Cleaners/Sweepers /Scavangers/Choukidars/Security Guards/Office Boys	Day	310	
<b>Note :</b> Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double of the above wages.					
<b>(D) OTHER CONVEYANCE ITEMS</b>					
57	1	Single bullock with driver and cart	Day	400	As per I&CAD (S.No.6) Semi Skilled
58	2	Bullock pair with driver	Day	-	
59	3	Bullock pair with driver and cart	Day	425	As per I&CAD (S.No.5 ) Semi Skilled
60	6	Nava with crew	Day	390	As per I&CAD (S.No.3) Semi Skilled
<b>Note :-</b>					

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.

# MATERIAL & WORK ITEM RATES

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
		<b>(A) STONE AND ROAD MATERIALS</b>			
		<b>ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING AND STACKING</b>			
1	22.a	For R.R Masonary Work (other than Granite, Dolomite and Trap	1 cum	<b>160</b>	
2	b.I	For SS Revetment work 225 mm	1 cum	<b>144</b>	As per I&CAD (S.NO 3) of Mis Items Material other than covered under Irrigation
3	b.ii	For SS Revetment work 300 mm	1 cum	<b>164</b>	As per I&CAD (M003) of Mis Items Material other than covered under Irrigation
4	b.iii	For SS Revetment work 450 mm	1 cum	<b>136</b>	do
5	c	Jeddy Stone above 450 mm to 600 mm	1 cum	<b>188</b>	do
6	d I.	Laterite for revetment 225 mm	1 cum	<b>118</b>	do
7	d II.	Laterite for revetment 300 mm	1 cum	<b>138</b>	do
8	d.iii	Granite for SS revetment 225 mm	1 cum	<b>154</b>	do
9	d.iv	Granite for SS revetment 300 mm	1 cum	<b>156</b>	do
		<b>Note:-</b> Only when other than granite is not available			
10	e	Laterite for masonry	1 cum	<b>136</b>	do
11	f	Cyclopean stones above 0.2 cum	1 cum	<b>254</b>	do
12	g	For R.R.Masonry works ( granite, dolomite and trap variety	1 cum	<b>252</b>	As per I&CAD (M148) of Mis Items Material other than covered under Irrigation
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	<b>70</b>	do
		<b>COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING FOR SS FIRST SORT WORKS</b>			
14	23.a	Granite, dolomite and trap	1 cum	<b>262</b>	do
15	b	For other varieties	1 cum	<b>188</b>	do
16	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	<b>1728</b>	do
17		<b>NOTE:</b> - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	<b>74</b>	do
18	28	Bond stones ( 600 x 200 x 200 mm )	each	<b>30</b>	do
19	b	Chainage stones and Centre line stones (750x150x150xmm)	each	<b>37</b>	do
	29 (a)	Kilometers stones ( 1100 x 370 x 250 mm)	each	<b>Based on detailed analysis as per MoRTH Data</b>	
	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	<b>70</b>	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
21	32.a	Guard Stones ( 1200 x 200 x 200 mm )	each	<b>102</b>	do
22	b	Guide Stones ( 800 x 150 x 150 mm )	each	<b>70</b>	do
23	c	Carving letters and figures in stone up to 100 mm size	each	<b>8</b>	do
24	d	Carving letters and figures in stone above 100 mm size	each	<b>9</b>	do
		<b>HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING.</b>			
25	33.a	- do - 6mm size (IS383,1970)	1 cum	<b>532</b>	As per I&CAD (M050)
26	b	- do - 10mm size (IS383,1970)	1 cum	<b>692</b>	As per I&CAD (M051)
27	c	- do - 12mm size (IS383,1970)	1 cum	<b>822</b>	As per I&CAD (M052)
28	d	- do - 20mm size (IS383,1970)	1 cum	<b>1036</b>	As per I&CAD (M053)
29	e	- do - 25mm size (IS383,1970)	1 cum	<b>994</b>	As per I&CAD (M054)
30	f	- do - 40mm size (IS383,1970)	1 cum	<b>620</b>	As per I&CAD (M055)
31	g	- do - 50mm size (IS383,19705)	1 cum	<b>456</b>	do
32	h	- do - 60mm size (IS383,1970)	1 cum	<b>419</b>	do
33	I	- do - 65mm size (IS383,1970)	1 cum	<b>379</b>	do
34	j	- do - 75mm size (IS383,1970)	1 cum	<b>304</b>	do
35	k	- do - 75 to 100mm size (IS383,1970)	1 cum	<b>248</b>	do
36		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting		<b>70</b>	do
37		(2) Add <b>25%</b> extra per cum if the metal is obtained by machine crushing excluding cost of blasting.		<b>25%</b>	do
38		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.		<b>9.9</b>	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.		<b>17</b>	do
		<b>SOFT BROKEN STONE SCREENED AND FREE FROM DUST INCLUDING STACKING</b>			
40	33.l	- do - 40 mm size ( IS383,1970 )	1 Cum	<b>123</b>	do
41	33.m	- do - 50 mm size ( IS383,1970 )	1 Cum	<b>111</b>	do
42	33.n	- do - 60 mm size ( IS383,1970 )	1 Cum	<b>87</b>	do
43	33.o	- do - 65 mm size ( IS383,1970 )	1 Cum	<b>78</b>	do
44	33.p	- do - 75 mm size ( IS383,1970 )	1 Cum	<b>73</b>	do
		<b>HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)</b>			
45	33a	-do- 2.36 mm to 5 mm size ( IRC, MORTH & MORD)	1 cum	<b>308</b>	do
	b	-do- 5 mm to 7 mm size ( IRC, MORTH & MORD)	1 cum	<b>504</b>	do
46	c	-do- 9.5 mm to 11.2 mm size ( IRC, MORTH & MORD)	1 cum	<b>656</b>	do
47	d	-do- 12mm to 14 mm size ( IRC, MORTH & MORD)	1 cum	<b>780</b>	do
48	e	-do- 19 mm to 22 mm size ( IRC, MORTH & MORD )	1 cum	<b>984</b>	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
49	f	-do- 25 mm to 27 mm size ( IRC,MORTH &MORD )	1 cum	<b>944</b>	do
50	g	-do- 40 mm to 45 mm size ( IRC , MORTH &MORD)	1 cum	<b>588</b>	do
51	h	-do- 50 mm to 55 mm size ( IRC,MORTH & MORD )	1 cum	<b>456</b>	do
52	i	-do- 60 mm to 63 mm size ( IRC, MORTH &MORD)	1 cum	<b>419</b>	do
53	j	-do- 65 mm size ( IRC ,MORTH &MORD )	1 cum	<b>379</b>	do
54	k	-do- 75 mm size ( IRC,MORTH &MORD)	1 cum	<b>304</b>	do
55	1	<b>NOTE:-</b> Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	<b>70</b>	do
56	2	Add <b>25%</b> extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	<b>25%</b>	do
57	3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	<b>9.9</b>	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	<b>17</b>	do
		<b>HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST INCLUDING STACKING</b>			
59	33.q	- do - 10 mm size (IS383,1970)	1 Cum	<b>386</b>	do
60		-do- 9.5 mm to 11.2 mm size ( IRC,MORTH & MORD )	1 Cum	<b>386</b>	do
61	r	- do - 12 mm size (IS383,1970)	1 Cum	<b>362</b>	do
62		-do- 12mm to 14 mm size ( IRC , MORTH & MORD )	1 Cum	<b>362</b>	do
63	s	- do - 20 mm size (IS383,1970)	1 Cum	<b>293</b>	do
64		-do- 19 mm to 22 mm size ( IRC,MORTH & MORD )	1 Cum	<b>293</b>	do
65	t	- do - 25 mm size (IS383,1970)	1 Cum	<b>287</b>	do
66	u	- do - 40 mm size (IS383,1970)	1 Cum	<b>170</b>	do
67		-do- 40 mm to 45 mm size ( IRC , MORTH & MORD)	1 Cum	<b>170</b>	do
68	v	- do - 50 mm size (IS383,1970)	1 Cum	<b>150</b>	do
69		-do- 50 mm to 55 mm size ( IRC,MORTH &MORD)	1 Cum	<b>150</b>	do
70	33.w	- do - 65 mm size (IS383,1970)	1 Cum	<b>142</b>	do
71		-do- 60 mm to 65 mm size ( IRC, MORTH &MORD)	1 Cum	<b>142</b>	do
72	x	- do - 75 mm size (IS383,1970)	1 Cum	<b>117</b>	do
73		- do - 75 mm size ( IRC ,MORTH & MORD)	1 Cum	<b>117</b>	do
74	y	- do - 75 to 100 mm size (IS383,1970)	1 Cum	<b>92</b>	do
75		- do - 75 to 100 mm ( IRC, MORTH & MORD)	1 Cum	<b>92</b>	do
		<b>OTHER ITEMS INCLUDING STACKING</b>			
76	33.z1	Laterite 40 to 75 mm ( ring)	1 Cum	<b>101</b>	do
77	z2	kankar, hard broken kankar 40 to 75 mm ( ring )	1 Cum	<b>75</b>	do
78	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties	1 Cum	<b>95</b>	do
79		<b>NOTE:-</b> (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	<b>70</b>	do
80	z4	Soling stone of 150 mm size other than granite variety	1 Cum	<b>66</b>	do
81	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	<b>41</b>	do
82	z6	Field picked metal unbroken 20 mm size	1 Cum	<b>55</b>	do
83	z7	- do - 25 mm size	1 Cum	<b>42</b>	do
84	z8	- do - 40 mm size	1 Cum	<b>48</b>	do
85	z9	- do - 50 mm size	1 Cum	<b>42</b>	do
86	z10	- do - 60 mm size	1 Cum	<b>36</b>	do
87	z11	- do - 80 mm size	1 Cum	<b>32</b>	do

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
88		<b>NOTE:-</b> Add Rs. /- Per Cum for selection of stone and boulders from		<b>17</b>	do
89	34	Gravel including stacking	1 Cum	<b>103</b>	As per I&CAD (M008 of Material)
90	35 a	Quarry rubbish	1 Cum	<b>81</b>	do
91	b	HBG Stone Chips 2.36mm and below	1 Cum	<b>340</b>	As per I&CAD (S.No 67 of Material)
92	36.a	Sand for mortar, ceiling coat including washing screening etc.,	1 Cum	<b>566</b>	As per I&CAD (S.No 28 of Material)
93	36.b	Sand for Concrete	1 Cum	<b>422</b>	As per I&CAD (S.No 27a of Material)
94	36.c	Sand for filling and blindage	1 Cum	<b>302</b>	As per I&CAD (S.No 27b of Material)
95	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local pr	1 Cum	<b>35</b>	do
		<b>(C) LIME AND CEMENT</b>			
96	40 to 41(c)				
97	42	Cement excluding cost of empty cement bags	Metric Tonne	<b>Monthly Rates will be communicated by Govt.</b>	
		<b>NOTE: (1) The rate is material at site ( No conveyance charges to be allowed) 2)As</b>			
98	42.a	Labour for mixing cement mortar	1 Cum	<b>Based on detailed analysis as</b>	
99	b	Mixing of cement mortar by machine	1 Cum		
100	c	Grinding lime mortar or Surkhi mortar	1 Cum	<b>94</b>	do
101	d	Shell lime slaked and screened	1 Cum	<b>940</b>	do
102	e	White cement	1 Kg.	<b>30</b>	do
		<b>(D) MORTARS</b>			
103	43 to 45	Items 43 to 45			
		<b>(E) METAL AND IRON WORKS</b>			
104		Mild steel rods 6mm dia.	One Metric Tonne	<b>Monthly Rates will be communicated by Govt.</b>	
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		
		<b>NOTE: (1) The rate are inclusive of sales tax. 2) As per the rates applicable to the</b>			
		<b>III RATES OF WORKS</b>			
		<b>(A) CLEARING SITE</b>			
109	1.a	Clearing heavy Jungle	1 Sqm	<b>Based on</b>	

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
110	b	Clearing light Jungle	1 Sqm	<b>detailed analysis as per</b>	
111	c	Clearing Scrub Jungle	1 Sqm		
112	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	<b>3.7</b>	do
113	2.a.I	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	<b>19</b>	do
114	ii	- do - 100 to 200 cm.	Each	<b>44</b>	do
115	2.b.I	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	<b>46</b>	do
116	ii	- do - 100 to 200 cm.	Each	<b>48</b>	do
117	2.c.I	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	<b>24</b>	do
118	ii	- do - 100 to 200 cm	Each	<b>35</b>	do
119	d.I	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	<b>24</b>	do
120	ii	- do - 100 to 200 cm	Each	<b>30</b>	do
121	e I	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	<b>30</b>	do
122	ii	- do - 100 to 200 cm	Each	<b>46</b>	do
123	iii	- do - above 200 cm	Each	<b>75</b>	do
124	f.I	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	<b>24</b>	do
125	ii	- do - 100 to 200 cm	Each	<b>33</b>	do
126	iii	- do - above 200 cm	Each	<b>41</b>	do
127	3.a	Uprooting and clearing prickly pear jungle	1 Sq.m	<b>2.3</b>	do
128	b	- do - under 2.5 meters height including burning and burying as directed.	1 Sq.m	<b>3</b>	do
129	c	- do - over 2.5 meters height including burning and burying with an initial lead of conveyance	1 Sq.m	<b>3.5</b>	do
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	<b>1.9</b>	do
131	b.I	Clearing alchi, tilla	1 Sq.m	<b>3.8</b>	do
132	b.ii	Removal of Jammu	1 Sq.m	<b>3.3</b>	do
133	c.I	Removal of imponea, cornea	1 Sq.m	<b>3.6</b>	do
134	c.ii	Removal of water hyacinth up to 30 cm thick.	1 Sq.m	<b>3.7</b>	do
135	c.iii	- do - more than 30 cm thick	1 Sq.m	<b>5</b>	do
136	d	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sq.m	<b>1.4</b>	do
		<b>(B) DISMANTLING</b>			
	5	<b>DISMANTLING, CLEARING AWAY AND CAREFULLY STACKING MATERIALS USEFUL FOR REUSE.</b>			
137	n.(i)	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	62.5	
		<b>(C) QUARRYING AND BLASTING</b>			

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
138	6	Blasting and removing hard granite measured in solid	1 cum	Based on detailed analysis as per MoRTH Data	
	7	<b>Drilling holes in hard granite or sheet rock</b>			
	a)	<b>Manually ( Hand)</b>			
139	I)	20 mm dia meter	1 RM	<b>124</b>	do
140	ii)	25 mm dia meter	1 RM	<b>131</b>	do
141	iii)	36 mm dia meter	1 RM	<b>151</b>	do
	b)	<b>Pneumatic Compressor</b>			
142	I)	20 mm dia meter	1 RM	<b>140</b>	do
143	ii)	25 mm dia meter	1 RM	<b>152</b>	do
144	iii)	36 mm dia meter	1 RM	<b>165</b>	do
	8	<b>Grouting the holes with neat cement slurry excluding cost of steel</b>			
145	I)	20 mm dia meter	1 RM	<b>88</b>	do
146	ii)	25 mm dia meter	1 RM	<b>111</b>	do
147	iii)	36 mm dia meter	1 RM	<b>138</b>	do
		<b>(D) EARTH WORK</b>			
148		<b>NOTE:-</b> 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		<b>Allowances for Excavation and Forming Embankment:</b>		-	
		(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		<b>Conveyance by Lorries not applicable to head leads</b>		-	
		(vi) Clay 25%		-	
		loamy, Red Earth, Gravel, Homogeneous soils- 18%		-	
		(vii) Allowance for compaction and Shrinkage- 12 to 12.5%		-	
		<b>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.</b>		-	
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 ordina	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		

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks	
1	2	3	4	6	7	
158	12.a	Hard Gravelly Soils SS 20-A	1 cum	Based on detailed analysis as per MoRTH Data		
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		Based on detailed analysis as per MoRTH Data	
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			
		<b>FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM N0s 8-b to 15 ABOVE )</b>		-		
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	Based on detailed analysis as per MoRTH Data		
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			
		<b>FOR HARD DISINTEGRATED ROCK (ITEM 16 TO 17 ABOVE )</b>				
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			
		<b>FOR FISSURED AND FRACTURED HARD ROCK AND BOULDERS ETC., (ITEM 18 &amp; 19 a ABOVE)</b>		-		
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		
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			

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
181	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum	<b>MoRTH Data</b>	
		<b>FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM N0s 8-b to 15 ABOVE )</b>		-	
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	<b>Based on detailed analysis as per MoRTH Data</b>	
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		
		<b>FOR HARD DISINTEGRATED ROCK (ITEM 16 &amp; 17 ABOVE )</b>		-	
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	<b>Based on detailed analysis as per MoRTH Data</b>	
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		
		<b>FOR FISSURED AND FRACTURED, HARD ROCK AND BOULDERS ETC.,(ITEM 18 TO 19 a ABOVE ).</b>		-	
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	<b>Based on detailed analysis as per</b>	
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		
		<b>Note:</b> 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	<b>Based on detailed analysis as per MoRTH Data</b>	
192	b	- do - with stone roller 2 tonnes or cattle treading	1 cum		
193	b(I)	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 <b>51.76</b> 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		
197	23.a	Benching old embankment slopes 0.45 x 0.45 metres.	1 RM		

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
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		
		<b>(E) CONCRETE AND (G) STONE MASONRY</b>		-	
203		SSI NOS 31a to 39 and SSI Nos. 60 to 87			
		<b>Note:</b>			
204		1. Add for vibrating concrete	1 cum		
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 I	White washing and colour banding for guard and guide stones including cost of materials	each		
208	b I	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		
		<b>CENTERING CHARGES</b>			
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		
		<b>CENTERING CHARGES FOR MINOR AND MAJOR BRIDGE WORKS</b>		-	
213	L3	For mass concrete piers, abutments and steining well curbs, well caps etc.,	1 cum		
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	<b>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 )</b>		-	
220	n 1	250 mm diameter	1 Rm		
221	n 2	300 mm diameter	1 Rm		

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
222	n 3	450 mm diameter	1 Rm	<b>Based on detailed analysis as per MoRTH Data</b>	
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		<b>Note:-</b> For NP3 class 50% extra over the rates of NP2. Class may be allowed.			
		<b>(S ) ROAD WORK ITEMS</b>			
		<b>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 OFGRAVEL 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.</b>			
		<b>( For a compact thickness )</b>			
	1 (I )	<b>HARD METAL</b>			
229	a	40 mm thickness	10 sqm	<b>Based on detailed analysis as per MoRTH Data</b>	
230	b	50 mm thickness	10 sqm		
231	c	75 mm thickness	10 sqm		
232	d	100 mm thickness	10 sqm		
	1 (ii )	<b>For compact thickness of soft metal</b>			
233	a	50 mm thickness	10 sqm	<b>Based on detailed analysis as per MoRTH Data</b>	
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	<b>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 )</b>			
		<b>HARD METAL</b>			
240	5 (a)	40 mm thickness	10 sqm	<b>Based on detailed</b>	
241	(b)	50 mm thickness	10 sqm		

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
242	(c)	75 mm thickness	10 sqm	<b>analysis as per MoRTH Data</b>	
243	(d)	100 mm thickness	10 sqm		
244	(e)	150 mm thick excluding hire charges	10 sqm		
		<b>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 )</b>			
245	6a	50 mm thickness	10 sqm	-	
246	b	75 mm thickness	10 sqm	-	
247	c	100 mm thickness	10 sqm	-	
248	d	150 mm thickness	10 sqm	-	
249	7a	<b>Blinding the road surface 6 mm thick with gravel or sand available at site after remaining loose stones including watering.</b>	10 sqm	-	
250	b	-do- without watering	10 sqm	-	
251	8a	<b>Blinding the road surface 6 mm thick with gravel or sand dug from road site including watering.</b>	10 sqm	-	
252	b	-do- without watering	10 sqm	-	
253		<b>Spreading gravel sand including watering and roller rolling ( for compacted thickness of )</b>		-	
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	-	

Sl. No	S.S. Item No.	Description	Unit	SoR Rate for 2015-16	Remarks
1	2	3	4	6	7
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		
		<b>BAILING OUT WATER CHARGES FOR CD &amp; CM WORKS (WHEREVER REQUIRED)</b>		-	
267	I 14	For earth work excavation for foundations below low water level	1 cum	<b>Based on detailed analysis as per MoRTH Data</b>	
268	I 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	<b>8.75</b>	do
272		De bonding Strips	Mtr	<b>11</b>	do
273		Selent	Ltr	<b>69.5</b>	do
274		Ply sheet 125 micron	1 Sqm	<b>18</b>	do
275		Rural water table	1 kl	<b>77</b>	do

**HIRE CHARGES OF  
PLANT & MACHINERY  
FOR ROADS & BRIDGE  
WORKS**

Sl. No.	Description		Unit	Hire Charges for 2015-16	Remarks
	Machine	Activity		( Rupees)	
1	2	3	4	6	7
1	Dozer( D 80 )	Spreading	Per Hour	2561.8	As per I&CAD (S.NO. 8)
		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	As per I&CAD (S.NO. 52)
		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	919.7	As per I&CAD (S.NO. 54)
			Per Ton per Km	6	
7	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2643.5	As per I&CAD (S.NO. 62)
		WMM			
8	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1124.5	As per I&CAD (S.NO. 50)
9	Water tanker 8 Kilolitre	Water transport	Per Hour	875.5	As per I&CAD (S.NO. 64)
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	As per I&CAD (S.NO. 2)
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 capacity	DBM/BM/SDC	Per Hour	21668	do
		/Premix			
22	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC	Per Hour	19120	do
		/Premix			
23	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC	Per Hour	3059.51	do
		/Premix			
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

Sl. No.	Description		Unit	Hire Charges for 2015-16	Remarks
	Machine	Activity		( Rupees)	
1	2	3	4	6	7
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	1070	As per I&CAD (S.NO. 10)
33	Transit mixer	Transportation of concrete mix	Per Hour	1917.5	As per I&CAD (S.NO. 1)
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	As per I&CAD (S.NO. 14)
37	Kerb casting machine	Kerb making	Per Hour	311	do
38	Concrete mixer	Concrete mixing	Per Hour	459.3	As per I&CAD (S.NO. 18)
	(a)0.28 cum				
	(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
42	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	141	do
43	Generator				
	250 KVA	Generation of electric energy	per hour	1850	do
	125 KVA		per hour	1320	do
	100 KVA		per hour	1126	do
30 KVA	per hour		838.4	As per I&CAD (S.NO. 23)	
44	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	56	do
45	Truck 5.5 cum per 10 tonnes	Material transport	Per Km.	887.1	As per I&CAD (S.NO. 58)

Sl. No.	Description		Unit	Hire Charges for 2015-16	Remarks
	Machine	Activity		( Rupees)	
1	2	3	4	6	7
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	As per I&CAD (S.NO. 22)
<b>Note:</b> 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: 2015-2016

COMMITTEE OF CHIEF ENGINEERS

SCHEDULE OF RATES  
FOR  
BUILDINGS WORKS

FOR THE YEAR 2015-2016  
(Effective from 1<sup>st</sup> June, 2015)

ALL ENGINEERING  
DEPARTMENTS

Office of the Chief Engineer (R&B) RR &Buildings  
Convener-Member,  
Committee of Chief Engineers-Buildings-SoR

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Procs.No. CEB/TA8/AEE3/B-SoR: 2015-16

Dt: 17-07-2015.

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works – Telangana Buildings-SoR:2015-16 – 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: 15-06-2015.

\* \* \* \* \*

**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. 1<sup>st</sup> cited. In accordance therewith the Committee of Chief Engineers has finalized and approved the Telangana Buildings-SoR: 2015-16 in the Minutes of Meeting held on 15-06-2015.**

**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-2015-16 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: 2015-16. 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: **2015-16**-CD as above

Sri. G. Ramakrishna Kumar  
Chief Engineer (R&B) RR &Buildings  
Convener-Member,  
Committee of Chief Engineers-Buildings-SoR

To

1. Engineer-in-Chief (Admn & QC), Roads & Buildings Department, Errummanzil, Hyderabad-82.
2. Engineer-in-Chief (IW)I&CAD, Irrigation Department, Errummanzil, Hyderabad-82.
3. Engineer-in-Chief (State Roads, CRN), Roads & Buildings Department, Errummanzil, Hyderabad-82.
4. Engineer-in-Chief, (PHE) Public Health Engineering. Department, A.C. Guards, Hyderabad-4.
5. Engineer-in-Chief (P.R.) Panchayat Raj Department, Errummanzil, Hyderabad-82.
6. Engineer-in-Chief, Tribal Welfare & Social Welfare Department, DSS Bhavan, Masab tank, Hyderabad.
7. Engineer-in-Chief, Greater Hyderabad Municipal Corporation (GHMC), CC Complex,Tankbund Rd., Hyderabad
8. Chief Engineer (NH, CRF, PPP & LWE), Roads & Buildings Department, Errummanzil, Hyderabad-82.
9. Chief Engineer (R&B) & Chief Technical Examiner & Member, COT, TS Secretariat, Hyderabad-22
10. Chief Engineer (AP Housing Board) Gruhakalpa, Nampally, Hyderabad
11. Chief Engineer (Housing Corporation) Urdugally, Himayatnagar, Hyderabad
12. Chief Engineer (TSSRTC), RTC 'X' Roads, Musheerabad, Hyderabad.
13. Chief Engineer (TSMSIDC), IIIrd Floor, DM&HS Campus, Sultanbazar, Koti, Hyderabad.
14. Chief Engineer (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.

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II	SUB-SECTION	TBSC-D.II-01-04	BEST TEAK WOOD	28	28
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Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
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<b>J</b>	<b>SECTION</b>		<b>PLYWOODS, LAMINATES &amp; VENEERS</b>	38	39
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Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
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III	SUB-SECTION	TBSC-L.III-01-26	DOORS WITH SHUTTERS&FRAMES	58	70
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			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
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III	SUB-SECTION	TBSC-M.III-01-08	VENTILATORS	87	90
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			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
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II	SUB-SECTION	TBSC-P.II-01-17	HINGES	94	94
III	SUB-SECTION	TBSC-P.III-01-13	DOOR HANDLES	94	94
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IX	SUB-SECTION	TBSC-P.IX-01-09	OTHER ACCESSORIES	96	96
<b>Q</b>	<b>SECTION</b>		<b>CONSTRUCTION CHEMICALS &amp; ADMIXTURES</b>	96	100

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
			<b>Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.</b>		
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# 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 1<sup>st</sup> meeting of the above "SoR Committee for Telangana Buildings (Civil & Electrical)" was convened on 15-06-2015 with an objective to finalize and release the first Telangana Buildings-SoR: 2015-16.

## 2.0 APPLICABILITY OF COMMON SoR – 2015-16

The rates of labour, common materials & work items, Public Health items, conveyance rates of materials & hire charges approved and published in Common SoR-2015-16 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 fulfillment 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)
  - vii. 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: 2015-16. For the buildings work estimates taken up in the notified Area Development Authorities constituted by the Government, the Area Allowance on the labour components of civil, water supply & sanitary items of building works may be allowed on specific recommendation from such Area Development Authorities.
2. The rates of the Ready Mix Concrete (RMC) are to be arrived as per the rate analysis appended in the A.P. Revised Standard Data-2009. In case RMC

concrete is procured from the manufacturers the rate shall be as per the rate analysis which is appended at Sl. No 23 of the Buildings Section of A.P. Revised Standard Data-2009, retrospectively.

3. Wherever the concrete pump is used in the data, 8 working hours per day can be considered for rate analysis purpose.
4. For the structures where the Standard and High Strength Concretes vide IS: 456-2000 is required, mix design shall be carried out and rates may be arrived as per the rate analysis appended in the A.P. Revised Standard Data-2009.
5. The rates of Hire charges for centering & scaffolding for the SHEAR WALLS, RCC WALLS, WATER TANK WALLS are appended in the Telangana Buildings SoR.
6. The Electrical items and corresponding rates as approved and proposed by the Superintending Engineer (R&B) Electrical have been considered in the Buildings SoR-2015-16.
7. The rates for the Manholes and inspection chambers are finalized based on the detailed rate analysis.
8. The rates of CI Pipes and fittings have been fixed based on the price lists obtained from the dealers & manufacturers and based on the 'Wholesale Price Indices' published by the Government of India and competitive quotations.
9. Similarly the Vitreous china ware, porcelain, taps Faucets, G.I Pipes, valves Fittings SWG pipes Fittings and PVC Pipes Fittings have been finalized based on the 'Wholesale Price Indices' published by the Government of India and competitive quotations.
10. The specifications of the aggregates for sizes and gradation and its adoption shall be as per IS 383-1970 and IS 2386 (Part 1 to Part 8).
11. No allowance towards 'Labour Importation & Labour Amenities' shall be added to the datas as they are included in the provision of 'Over heads and contractor's profit'.
12. For sand, gravel , murum, stones , course aggregates the basic rates are excluding seigniorage (royalty) charges, unloading charges by machinery / manual means and idle hire charges of machinery shall be allowed (as per table under chapter "conveyance or lead and lift charges") as applicable.
13. For all the materials, the basic rates given in the Buildings SoR are 'landing prices' at the site, except where mentioned specifically.

14. For the materials where the basic rates are mentioned as 'quarry rates' in the Buildings SoR, which includes initial lead of 1.0 km, lead charges are to be added for the lead distances from the approved quarries as applicable. Wherever the term "carriage" or "conveyance" is used in schedule item, it shall be taken to include actual leads, lifts, loading, unloading and stacking to the satisfaction of the technical sanctioning authority while making the price-adjustments.
15. The basic item rates provided in the schedule of rates include 50 m (conveyance by manual means) or 1 km (conveyance by mechanical means) as initial lead and no lead charges shall be allowed where the source of material is within the initial lead specified in item rate. Additional lead charges shall be allowed for the lead exceeding initial lead specified in the item rate.
16. The lead charges per unit quantity for conveyance of the materials are worked out, and included in the schedule of rates in increment of 50 m for head load and in increment of 1 km for mechanical mode.
17. The rates for lead charges by head load up to 150 meters and by machinery up to 5 km shall be cumulative and inclusive of lead charges for preceding lead.
18. For building works taken up in the hill areas where the materials are conveyed on ghat roads, the lead distance may be taken as 2.0 times of 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.
19. Loading and unloading charges are not payable for conveyance by head loads.
20. Loading and unloading charges are not payable for conveyance by mechanical means, for disposal of excavated material unless specified.
21. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone, are inclusive of stacking wherever applicable.
22. The input rate for the water charges taken in Common Standard Schedule of Rates for the basic data is for the sources at site, any water lead as applicable may be allowed as per the conveyance charges.
23. Unless otherwise specified, all material rates shall be inclusive of all taxes, duties, levies, royalty/seigniorage, transportation and handling costs up to project area, but excluding 'Works Contract Tax (VAT)'.
24. Any errors, omissions, corrections or suggestions shall be brought to the notice of the 'COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)' for corrective action.

25. For any new items to be included in the 'Schedule of Rates', recommendations with specific remarks of the respective departments should reach the 'Committee of Chief Engineers' well in advance.
26. The CWC (Ministry of Irrigation) has recommended that "where standard or schedule of rates are revised or where is necessary to do so, the primary guiding principle should be escalation in labour and material cost and not on trend of rates quoted by the contractors". The 'Committee of Chief engineers' (Buildings SoR) have considered the practicality and adaptability of the 'Buildings-SoR' in construction of the building projects in finalizing the 'Buildings-SoR'.
27. Wherever feasible, more emphasis is given to the technical specifications for the SoR items. A list of approved brands in the respective category for the products is appended at the end of the SoR so as to bring to an end of encouraging a particular brand.
28. In view of state bifurcation and consequent need to prepare a separate SoR specific to the new Telangana state, the existing Buildings-SoR: 2014-15 was reviewed thoroughly. An exhaustive approach was adopted to retain technical specifications of the items and to remove the brand names to the extent possible from the technical specification. In this process certain obsolete items and items which are not in use in the departments were removed. More emphasis was given to the latest trends in the market, for instance the latest range of the Vitrified tiles have been studied and grouped as per the availability. For the purpose of price adjustments, for those items which are not appearing in this Telangana Buildings SoR-2015-2016, the rates of the earlier SoR may be considered.
29. The estimate preparing authorities are advised to specify the brand names/ manufacturers in the contract documents as per the requirement.
30. The technical specifications, brand names and the corresponding rates given in the 'water proofing and chemical admixtures' section are for the guidance only. The estimate preparing authorities are requested to obtain literature for usage / application of construction / water proofing materials, epoxies etc, from the manufacturers or authorized suppliers and incorporate in the contract documents as per the requirement.

## **5.0 CONCLUSION**

1. The Committee of Chief Engineers on Buildings-SoR: 2015-16 (Civil & Electrical) has met in the chambers of Chief Engineer (R&B) Buildings, on 15-

06-2015 at 5.00 P.M., and approved the Telangana Buildings SoR:2015-16. 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.
4. The committee has resolved to amend the Standard Data of earth work items such as earth work excavation in all types of soils and rocks and refilling beyond 3.0 M depth, for every 1.0 M depth or part thereof, allowance of 10% extra shall be added over the basic rate.
5. The committee has further resolved that all the amendments that are issued to the A.P. Revised Standard Data-2009 are effective from retrospective date of publication of data approved vide G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009.

# CIVIL ITEMS

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
<b>A</b>	<b>SECTION</b>	<b>BRICKS &amp; BUILDING BLOCKS</b>		
		<b>(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>ORDINARY CLAY BRICKS</b>		
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 (ex-quarry price - excluding cost of conveyance, loading & unloading)	<b>Each</b>	<b>5.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading)	<b>Each</b>	<b>6.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>FLY-ASH CEMENT/LIME SOLID BLOCKS</b>		
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 290 x 225 x 140 mm	<b>Each</b>	<b>25.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 290 x 200 x 140 mm	<b>Each</b>	<b>23.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 290 x 150 x 140 mm	<b>Each</b>	<b>20.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 290 x 112/100 x 140 mm	<b>Each</b>	<b>14.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 225 x 100 x 60 mm	<b>Each</b>	<b>7.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 145 x 225 x 140 mm	<b>Each</b>	<b>15.00</b>
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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 145 x 200 x 140 mm	<b>Each</b>	<b>12.00</b>
10	TBSC-A.II-08	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 (ex-quarry price - excluding cost of conveyance, loading & unloading) 290 x 225 x 140 mm	<b>Each</b>	<b>24.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
11	TBSC-A.II-09	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 (ex-quarry price - excluding cost of conveyance, loading & unloading) 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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 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 (ex-quarry price - excluding cost of conveyance, loading & unloading) 145 x 225 x 140 mm	Each	12.00
16	TBSC-A.II-14	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 (ex-quarry price - excluding cost of conveyance, loading & unloading) 145 x 200 x 140 mm	Each	11.00
<b>III</b>	<b>SUB-SECTION</b>	<b>AUTOCLAVED CONCRETE BLOCKS</b>		
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 <sup>2</sup> (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 <sup>2</sup> (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 <sup>2</sup> (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 <sup>2</sup> (landing cost - including cost of conveyance, loading & unloading) 600 x 200 x 230 mm	Each	125.00
<b>B</b>	<b>SECTION</b>	<b>NATURAL FLOORING STONES</b>		
		<b>(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>LOCALLY AVAILABLE FLOORING STONES</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>II</b>	<b>SUB-SECTION</b>	<b>NATURAL FLOORING STONES - MARBLE</b>		
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
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
<b>III</b>	<b>SUB-SECTION</b>	<b>NATURAL FLOORING STONES - GRANITE</b>		
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	3,183.00
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	2,767.00
36	TBSC-B.III-03	High Polished Granite 16 to 18 mm thick up to 8'-00 (2.43 M) black	1 Sqm	2,352.00
37	TBSC-B.III-04	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 Sqm	1,079.00
<b>C</b>	<b>SECTION</b>	<b>WALL &amp; FLOOR TILES</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>NON-PORCELAIN CERAMIC FLOOR TILES</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	560.00
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	635.00
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	650.00
<b>II</b>	<b>SUB-SECTION</b>	<b>PORCELAIN VITRIFIED FLOOR TILES</b>		
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	560.00
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	635.00
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	675.00
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	1,522.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 Sqm</b>	<b>1,522.00</b>
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	<b>1 Sqm</b>	<b>1,039.00</b>
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	<b>1 Sqm</b>	<b>1,274.00</b>
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	<b>1 Sqm</b>	<b>1,747.00</b>
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	<b>1 Sqm</b>	<b>1,932.00</b>
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	<b>1 Sqm</b>	<b>1,099.00</b>
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	<b>1 Sqm</b>	<b>1,210.00</b>
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	<b>1 Sqm</b>	<b>1,390.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 Sqm</b>	<b>1,210.00</b>
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	<b>1 Sqm</b>	<b>1,391.00</b>
<b>III</b>	<b>SUB-SECTION</b>	<b>CERAMIC WALL TILES</b>		
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	<b>1 Sqm</b>	<b>660.00</b>
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	<b>1 Sqm</b>	<b>730.00</b>
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	<b>1 Sqm</b>	<b>815.00</b>
<b>IV</b>	<b>SUB-SECTION</b>	<b>PORCELAIN WALL TILES</b>		
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	<b>1 Sqm</b>	<b>691.00</b>
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	<b>1 Sqm</b>	<b>691.00</b>
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	<b>1 Sqm</b>	<b>795.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 Sqm</b>	<b>865.00</b>
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	<b>1 Sqm</b>	<b>986.00</b>
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	<b>1 Sqm</b>	<b>1,134.00</b>
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	<b>1 Sqm</b>	<b>1,213.00</b>
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	<b>1 Sqm</b>	<b>1,243.00</b>
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	<b>1 Sqm</b>	<b>331.00</b>
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	<b>1 Sqm</b>	<b>167.00</b>
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.	<b>1 Sqm</b>	<b>349.00</b>
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 .	<b>1 Sqm</b>	<b>176.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>V</b>	<b>SUB-SECTION</b>	<b>GLASS MOSAIC TILES</b>		
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
<b>VI</b>	<b>SUB-SECTION</b>	<b>WALL CLADDING TILES</b>		
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	592.00
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
<b>VII</b>	<b>SUB-SECTION</b>	<b>TERRAZZO FLOOR TILES (PLAIN &amp; CHEQURED)</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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
<b>VIII</b>	<b>SUB-SECTION</b>	<b>CEMENT CONCRETE FLOOR TILES (PLAIN &amp; CHEQUERED)</b>		
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
<b>IX</b>	<b>SUB-SECTION</b>	<b>PRE-CAST CONCRETE BLOCKS FOR PAVING</b>		
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 2015-16
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
<b>X</b>	<b>SUB-SECTION</b>	<b>VINYL FLOORING</b>		
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
<b>D</b>	<b>SECTION</b>	<b>TIMBER &amp; ROOFING MATERIALS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
		<b>Note: Before proposing the Teak Wood Items, the estimating authorities shall obtain prior approval from the competent authority</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>MEDIUM TEAK WOOD</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
105	TBSC-D.I-04	Medium Teak Wood Planks: any thickness	1 cum	1,60,189.00
<b>II</b>	<b>SUB-SECTION</b>	<b>BEST TEAK WOOD</b>		
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
<b>III</b>	<b>SUB-SECTION</b>	<b>BURMA TEAK WOOD</b>		
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
<b>IV</b>	<b>SUB-SECTION</b>	<b>ASSAM TEAK WOOD</b>		
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
<b>V</b>	<b>SUB-SECTION</b>	<b>SAL/ COUNTRY WOOD</b>		
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
<b>VI</b>	<b>SUB-SECTION</b>	<b>ROOFING MATERIAL</b>		
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
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>E</b>	<b>SECTION</b>	<b>STEEL MATERIALS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>MILD STEEL MATERIALS</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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
<b>II</b>	<b>SUB-SECTION</b>	<b>GALVANIZED STEEL MATERIALS</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>III</b>	<b>SUB-SECTION</b>	<b>STAINLESS STEEL MATERIALS</b>		
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
<b>F</b>	<b>SECTION</b>	<b>GLASS MATERIALS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>PLAIN GLASS PANES</b>		
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
<b>II</b>	<b>SUB-SECTION</b>	<b>PIN HEADED GLASS PANES</b>		
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
<b>III</b>	<b>SUB-SECTION</b>	<b>TINTED GLASS PANES</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>IV</b>	<b>SUB-SECTION</b>	<b>FROSTED/ GROUND GLASS PANES</b>		
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
<b>V</b>	<b>SUB-SECTION</b>	<b>TOUGHENED GLASS PANES</b>		
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
<b>G</b>	<b>SECTION</b>	<b>PAINTS &amp; POLISHES</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>PRIMERS, FILLERS &amp; BASES</b>		
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	35.00
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
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 readymade 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
<b>II</b>	<b>SUB-SECTION</b>	<b>LIME, DISTEMPERS &amp; CEMENT PAINTS</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
208	TBSC-G.II-04	Supply of Water proof Cement paint	1 Kg	55.00
<b>III</b>	<b>SUB-SECTION</b>	<b>EMULSION BASED PAINTS</b>		
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
<b>IV</b>	<b>SUB-SECTION</b>	<b>SOLVENT BASED PAINTS</b>		
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
<b>V</b>	<b>SUB-SECTION</b>	<b>OIL BASED ENAMEL PAINTS</b>		
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
<b>VI</b>	<b>SUB-SECTION</b>	<b>TEXTURE PAINTS</b>		
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
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
<b>VII</b>	<b>SUB-SECTION</b>	<b>SPECIAL PAINTS</b>		
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
<b>H</b>	<b>SECTION</b>	<b>PARTICLE BOARDS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>MELAMINE FACED PLAIN PARTICLE BOARD</b>		
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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
225	TBSC-H.I-04	Melamine faced Single Deco Plain Particle Board- 25 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>1,007.00</b>
226	TBSC-H.I-05	Melamine faced Single Deco Plain Particle Board- 35 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>1,675.00</b>
227	TBSC-H.I-06	Melamine faced Twin Deco Plain Particle Board- 8 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>778.00</b>
228	TBSC-H.I-07	Melamine faced Twin Deco Plain Particle Board- 12 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>889.00</b>
229	TBSC-H.I-08	Melamine faced Twin Deco Plain Particle Board-18 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>1,028.00</b>
230	TBSC-H.I-09	Melamine faced Twin Deco Plain Particle Board-25 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>1,139.00</b>
231	TBSC-H.I-10	Melamine faced Twin Deco Plain Particle Board-35 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>2,140.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>INSULATING PARTICLE BOARDS</b>		
232	TBSC-H.II-01	Natural Colour-Insulating Board - 12 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>252.00</b>
233	TBSC-H.II-02	Natural Colour-Insulating Board - 18 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>372.00</b>
234	TBSC-H.II-03	Natural Colour-Insulating Board - 25 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>474.00</b>
235	TBSC-H.II-04	White Insulating Board - 12 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>307.00</b>
236	TBSC-H.II-05	White Insulating Board - 18 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>439.00</b>
237	TBSC-H.II-06	White Insulating Board - 25 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>390.00</b>
<b>III</b>	<b>SUB-SECTION</b>	<b>MEDIUM DENSITY FIBRE BOARDS</b>		
238	TBSC-H.III-01	Medium Fibre Board: Interior Grade - 6 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>411.00</b>
239	TBSC-H.III-02	Medium Fibre Board: Interior Grade - 8 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>466.00</b>
240	TBSC-H.III-03	Medium Fibre Board: Interior Grade - 12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>624.00</b>
241	TBSC-H.III-04	Medium Fibre Board: Interior Grade - 15 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>793.00</b>
242	TBSC-H.III-05	Medium Fibre Board: Interior Grade - 18 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>885.00</b>
243	TBSC-H.III-06	Medium Fibre Board: Interior Grade - 25 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,257.00</b>
244	TBSC-H.III-07	Medium Fibre Board: Interior Grade - 30 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,519.00</b>
245	TBSC-H.III-08	Medium Fibre Board: Interior Grade - 35 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,657.00</b>
246	TBSC-H.III-09	Medium Fibre Board: Exterior Grade - 6 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>559.00</b>
247	TBSC-H.III-10	Medium Fibre Board: Exterior Grade - 8 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>651.00</b>

## SCAFFOLDING charges in the Telangana Buildings SoR: 2015-16

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
248	TBSC-H.III-11	Medium Fibre Board: Exterior Grade - 12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>862.00</b>
249	TBSC-H.III-12	Medium Fibre Board: Exterior Grade - 15 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,083.00</b>
250	TBSC-H.III-13	Medium Fibre Board: Exterior Grade - 18 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,212.00</b>
251	TBSC-H.III-14	Medium Fibre Board: Exterior Grade - 25 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,616.00</b>
252	TBSC-H.III-15	Medium Fibre Board: Exterior Grade - 30 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>2,013.00</b>
253	TBSC-H.III-16	Medium Fibre Board: Exterior Grade - 35 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>2,378.00</b>
254	TBSC-H.III-17	MDF Board: Plain-Interior - 9 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>377.00</b>
255	TBSC-H.III-18	MDF Board: Plain-Interior - 12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>428.00</b>
256	TBSC-H.III-19	MDF Board: Plain-Interior - 18 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>530.00</b>
257	TBSC-H.III-20	MDF Board: Plain-Interior - 25 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>637.00</b>
258	TBSC-H.III-21	MDF Board: Plain-Interior - 30 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>970.00</b>
259	TBSC-H.III-22	MDF Board: Plain-Interior - 35 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,147.00</b>
260	TBSC-H.III-23	MDF Board: Plain-Exterior - 9 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>493.00</b>
261	TBSC-H.III-24	MDF Board: Plain-Exterior - 12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>530.00</b>
262	TBSC-H.III-25	MDF Board: Plain-Exterior - 18 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>696.00</b>
263	TBSC-H.III-26	MDF Board: Plain-Exterior - 25 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>873.00</b>
264	TBSC-H.III-27	MDF Board: Plain-Exterior - 30 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,147.00</b>
265	TBSC-H.III-28	MDF Board: Plain-Exterior - 35 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,323.00</b>
266	TBSC-H.III-29	MDF Board: Interior-One Side Laminated -9 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>591.00</b>
267	TBSC-H.III-30	MDF Board: Interior-One Side Laminated -12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>668.00</b>
268	TBSC-H.III-31	MDF Board: Interior-One Side Laminated -18 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>777.00</b>
269	TBSC-H.III-32	MDF Board: Interior-One Side Laminated -25 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>873.00</b>
270	TBSC-H.III-33	MDF Board: Interior-One Side Laminated -30 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,262.00</b>
271	TBSC-H.III-34	MDF Board: Interior-One Side Laminated -35 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>1,346.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
289	TBSC-H.III-52	MDF Board: exterior-Both Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,515.00
<b>IV</b>	<b>SUB-SECTION</b>	<b>CEMENT BONDED PLAIN &amp; PARTICLE BOARDS</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	570.00
309	TBSC-H.IV-20	Pre-laminated cement bonded particle board-8 mm thick	1 Sqm	624.00
310	TBSC-H.IV-21	Pre-laminated cement bonded particle board- 10 mm thick	1 Sqm	667.00
311	TBSC-H.IV-22	Pre-laminated cement bonded particle board- 12 mm thick	1 Sqm	732.00
312	TBSC-H.IV-23	Pre-laminated cement bonded particle board- 16 mm thick	1 Sqm	818.00
313	TBSC-H.IV-24	75 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
<b>J</b>	<b>SECTION</b>	<b>PLYWOODS, LAMINATES &amp; VENEERS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>MOISTURE RESISTANT (MR) GRADE</b>		
315	TBSC-J.I-01	3 Ply - 4 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	407.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>II</b>	<b>SUB-SECTION</b>	<b>BOILING WATER RESISTANT (BWR) GRADE</b>		
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
<b>III</b>	<b>SUB-SECTION</b>	<b>VENEERED DECORATIVE PLYWOOD</b>		
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
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
<b>IV</b>	<b>SUB-SECTION</b>	<b>LAMINATES</b>		
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
<b>V</b>	<b>SUB-SECTION</b>	<b>COMMERCIAL VENEERS</b>		
341	TBSC-J.V-01	Teak Veneer Lamination of 4 mm thick with Pencil Grains conforming to IS 14315	<b>1 Sqm</b>	<b>450.00</b>
342	TBSC-J.V-02	Teak Veneer Lamination of 4 mm thick with Natural Grains conforming to IS 14315	<b>1 Sqm</b>	<b>829.00</b>
<b>K</b>	<b>SECTION</b>	<b>CEILINGS, WALL PARTITIONS &amp; WALL LININGS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>FALSE CEILINGs - TILES/ SHEETS</b>		
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	<b>1 Sqm</b>	<b>281.00</b>
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	<b>1 Sqm</b>	<b>274.00</b>
345	TBSC-K.I-03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 -1993	<b>1 Sqm</b>	<b>248.00</b>
346	TBSC-K.I-04	12 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	<b>1 Sqm</b>	<b>456.00</b>
347	TBSC-K.I-05	14 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 80% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	<b>1 Sqm</b>	<b>590.00</b>
348	TBSC-K.I-06	15 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	<b>1 Sqm</b>	<b>690.00</b>
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 >88%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	<b>1 Sqm</b>	<b>743.00</b>
350	TBSC-K.I-08	Designer ceiling Cement Boards -thickness 3.2 mm	<b>1 Sqm</b>	<b>259.00</b>
351	TBSC-K.I-09	High pressure steam cured Cement Boards 4 mm thick	<b>1 Sqm</b>	<b>138.00</b>
352	TBSC-K.I-10	High pressure steam cured Cement Boards 6 mm thick	<b>1 Sqm</b>	<b>208.00</b>
353	TBSC-K.I-11	High pressure steam cured Cement Boards 8 mm thick	<b>1 Sqm</b>	<b>276.00</b>
354	TBSC-K.I-12	High pressure steam cured Cement Boards 10 mm thick	<b>1 Sqm</b>	<b>346.00</b>
355	TBSC-K.I-13	High pressure steam cured Cement Boards 12 mm thick	<b>1 Sqm</b>	<b>415.00</b>
356	TBSC-K.I-14	High pressure steam cured Cement Boards 14 mm thick	<b>1 Sqm</b>	<b>484.00</b>
357	TBSC-K.I-15	High pressure steam cured Cement Boards 16 mm thick	<b>1 Sqm</b>	<b>554.00</b>
358	TBSC-K.I-16	High pressure steam cured Cement Boards 18 mm thick	<b>1 Sqm</b>	<b>622.00</b>
359	TBSC-K.I-17	High pressure steam cured Cement Boards 20 mm thick	<b>1 Sqm</b>	<b>692.00</b>
360	TBSC-K.I-18	High pressure steam cured designer Cement Boards 4 mm thick	<b>1 Sqm</b>	<b>204.00</b>
361	TBSC-K.I-19	High pressure steam cured designer Cement Boards 6 mm thick	<b>1 Sqm</b>	<b>300.00</b>
362	TBSC-K.I-20	Calcium Silicate Boards - 6mm thick	<b>1 Sqm</b>	<b>230.00</b>
363	TBSC-K.I-21	Calcium Silicate Boards - 8mm thick	<b>1 Sqm</b>	<b>307.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	1,257.60
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
<b>II</b>	<b>SUB-SECTION</b>	<b>FALSE CEILINGs - SECTIONS &amp; ACCESSORIES</b>		
373	TBSC-K.II-01	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	74.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
<b>III</b>	<b>SUB-SECTION</b>	<b>WALL LINING &amp; PANELLING</b>		
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	2,738.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 Sqm</b>	<b>765.00</b>
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	<b>1 Sqm</b>	<b>843.00</b>
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	<b>1 Sqm</b>	<b>919.00</b>
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	<b>1 Sqm</b>	<b>921.00</b>
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	<b>1 Sqm</b>	<b>964.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	1,658.40
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	2,520.00
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 with a strips of 5mm thick PVC sheet of width 75mm feathered at the edges provided 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 2015-16
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 as 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
<b>IV</b>	<b>SUB-SECTION</b>	<b>PARTITIONS</b>		
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 2015-16
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	<b>1 Sqm</b>	<b>1,597.00</b>
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 <sup>3</sup> 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 without painting for finished item of work	<b>1 Sqm</b>	<b>4,288.00</b>
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.	<b>1 Sqm</b>	<b>1,462.00</b>
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	<b>1 Sqm</b>	<b>1,660.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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 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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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 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
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	2,422.80
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	3,338.40

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	4,156.80
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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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	1 Sqm	5,616.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		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		
<b>L</b>	<b>SECTION</b>	<b>DOORS, SHUTTERS&amp;FRAMES</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>DOOR FRAMES</b>		
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	<b>1 Rm</b>	<b>378.00</b>
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	<b>1 RM</b>	<b>696.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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 19gauge. 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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 RM</b>	<b>219.00</b>
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	<b>1 RM</b>	<b>248.00</b>
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	<b>1 RM</b>	<b>248.00</b>
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	<b>1 RM</b>	<b>759.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
438	TBSC-L.I-12	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.	1 RM	474.00
439	TBSC-L.I-14	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.	1 RM	428.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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 <b>IS 6523</b> complete finished item including all taxes as per specifications & the directions of the Engineer-in-Charge.	<b>1 RM</b>	<b>330.00</b>
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 <b>IS 6523</b> complete finished item including all taxes as per specifications & the directions of the Engineer-in-Charge.	<b>1 RM</b>	<b>430.00</b>
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	<b>1 RM</b>	<b>250.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>DOOR SHUTTERS WITHOUT FRAMES</b>		
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	<b>1 Sqm</b>	<b>1,909.00</b>
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	<b>1 Sqm</b>	<b>2,003.00</b>
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	<b>1 Sqm</b>	<b>2,188.00</b>
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	<b>1 Sqm</b>	<b>1,088.00</b>

## SCAFFOLDING charges in the Telangana Buildings SoR: 2015-16

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1 Sqm</b>	<b>1,314.00</b>
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	<b>1 Sqm</b>	<b>1,488.00</b>
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	<b>1 Sqm</b>	<b>1,685.00</b>
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	<b>1 Sqm</b>	<b>2,097.00</b>
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	<b>1 Sqm</b>	<b>2,038.00</b>
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	<b>1 Sqm</b>	<b>2,256.00</b>
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	<b>1 Sqm</b>	<b>2,461.00</b>
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	<b>1 Sqm</b>	<b>2,812.00</b>
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.	<b>1 Sqm</b>	<b>2,592.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	3,360.00
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	2,588.00
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	1,500.00
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	1,285.00
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 hallow multi chambered PVC single panel for	1 Sqm	2,610.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		finished item of work.		
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 30 mm thick	<b>1 Sqm</b>	<b>1,644.00</b>
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 35 mm thick	<b>1 Sqm</b>	<b>1,797.00</b>
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	<b>1 Sqm</b>	<b>1,336.00</b>
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	<b>1 Sqm</b>	<b>1,478.00</b>
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	<b>1 Sqm</b>	<b>2,900.00</b>
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	<b>1 Sqm</b>	<b>1,480.00</b>
<b>III</b>	<b>SUB-SECTION</b>	<b>DOORS WITH SHUTTERS&amp;FRAMES</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
467	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
468	TBSC-L.III-02	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.	1 Sqm	2,700.00
469	TBSC-L.III-03	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	1 Sqm	2,450.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		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.		
470	TBSC-L.III-04	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	1 Sqm	2,475.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
471	TBSC-L.III-05	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 with 15mm 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	1 Sqm	2,200.00
472	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	1,767.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
473	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): 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) "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) 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
474	TBSC-L.III-08	Providing, supplying & fixing of glazed <b>2 Track -2 Panel Sliding Door</b> made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The sliding outer frame having a overall size of 60 x 45 mm with reinforcement of 1 mm thickness, super sash with overall size of 39 x 75 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 20 x 18mm and coextruded with gasket. Fiber Glass mesh shall be provided in mesh shutter. Window/Door shall be provided with 6 mm plain float glass, standard hardware & multi point locking system of Patio espagnolette. Wall thickness of frame & sash shall be 2.0 mm	1 Sqm	5,684.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
475	TBSC-L.III-09	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors <b>three track - only two glass shutters sliding - 95 -Series</b> duly manufactured using UPVC reinforced profiles of 95.50 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 duly 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/degazing 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	<b>1 Sqm</b>	<b>6,394.00</b>
476	TBSC-L.III-10	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors three track - two glass shutters sliding and one mesh shutter sliding- 95 -Series duly manufactured using UPVC reinforced profiles of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.0 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.0 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 mesh shutter shall be made of (48.5 mm x 30 mm)/(50 mm x 26.5 mm) x 2.0 mm uPVC profile section and fitted with nylon/polymer mesh and rollers/pulley duly fixed with TPV Gaskets/ 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/ degazing 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	<b>1 Sqm</b>	<b>7,066.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
477	TBSC-L.III-11	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	<b>1 Sqm</b>	<b>6,731.00</b>
478	TBSC-L.III-12	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) openable doors with openable shutters duly manufactured using UPVC reinforced profiles of 60 mm x 55 mm x 2.0 mm for outer frames, 70 mm x 60 mm x 2.25 mm for mullion sections as per the need and 102 mm x 60 mm x 2.0 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 window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant and accessories for openable door - hinges of stainless steel grade 304- 3 Nos., per shutter handle with mazak alloy casting 1 No. per shutter, locking system suitably concealed 1 No., 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	<b>1 Sqm</b>	<b>8,009.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
479	TBSC-L.III-13	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.	1 Sqm	1,038.00
480	TBSC-L.III-14	Supply and fixing of door shutters made of rigid PVC extruded hollow section 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
481	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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
482	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 $\pm$ 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 $\pm$ 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
483	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
484	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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
485	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	<b>1 Sqm</b>	<b>10,283.00</b>
486	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	<b>1 Sqm</b>	<b>10,968.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
487	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
488	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 2015-16
489	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
490	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 2015-16
491	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
492	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 2015-16
493	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
IV	SUB-SECTION	<b>CUP-BOARD DOORS</b>		
494	TBSC-L.IV-01	Supply and fixing of cupboard 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	2,604.00
495	TBSC-L.IV-02	Supply and fixing of box type cupboard 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	4,170.00
496	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	1 Sqm	4,338.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		finished item of work for PVC CABINETS		
<b>M</b>	<b>SECTION</b>	<b>WINDOWS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>OPENABLE WINDOWS</b>		
497	TBSC-M.I-01	Supply and fixing of pre-painted steel casement/ openable 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	<b>1 Sqm</b>	<b>6,316.00</b>
498	TBSC-M.I-02	Supply and fixing of pre-painted steel casement/ openable 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)	<b>1 Sqm</b>	<b>6,681.00</b>
499	TBSC-M.I-03	Supply and fixing of pre-painted steel casement/ openable 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	<b>1 Sqm</b>	<b>6,498.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
500	TBSC-M.I-04	Supply and fixing of pre-painted steel casement/ openable 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
501	TBSC-M.I-05	Providing and fixing of Casement/ Openable 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
502	TBSC-M.I-06	Providing and fixing of Casement/ Openable 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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
503	TBSC-M.I-07	Providing and fixing of Casement/ Openable 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 openable shutter window for sizes 5'0"x4'0" (1524mm x1219.2mm) and 6'0"x4'0" (1828.8mm x1219.2mm)	<b>1 Sqm</b>	<b>5,405.00</b>
504	TBSC-M.I-08	Providing & Fixing of Openable 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)	<b>1 Sqm</b>	<b>7,652.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
505	TBSC-M.I-09	Providing & Fixing of Openable 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
506	TBSC-M.I-10	Providing & Fixing of Openable 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 openable 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 2015-16
507	TBSC-M.I-11	Providing & Fixing of Openable 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
508	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
509	TBSC-M.I-13	Providing and fixing of Openable / 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 openable shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm)	1 Sqm	5,088.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
510	TBSC-M.I-14	Providing and fixing of Openable / 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 openable 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
511	TBSC-M.I-15	Providing and fixing of Openable / 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
512	TBSC-M.I-16	Providing and fixing of Openable / Casement Windows <b>with fly mesh</b> 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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
513	TBSC-M.I-17	Providing and fixing of Openable / 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)	<b>1 Sqm</b>	<b>7,069.00</b>
514	TBSC-M.I-18	Providing and fixing of Openable / 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)	<b>1 Sqm</b>	<b>6,427.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
515	TBSC-M.I-19	Galvanized powder coated Casement Windows with openable 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	<b>1 Sqm</b>	<b>5,685.00</b>
516	TBSC-M.I-20	Galvanized powder coated Casement Windows with openable 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	<b>1 Sqm</b>	<b>5,093.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
517	TBSC-M.I-21	Galvanized powder coated Casement Windows with openable 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	<b>1 Sqm</b>	<b>7,142.00</b>
518	TBSC-M.I-22	Galvanized powder coated Casement Windows with openable 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	<b>1 Sqm</b>	<b>6,566.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
519	TBSC-M.I-23	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable 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 openable shutters and (78 mm x 60 mm)/(72 mm x 42 mm) x 2.0 mm for outward openable shutter frame or (70 mm x 60 mm)/ (72 mmx 42 mm) x 2.0 mm for inward 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 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
520	TBSC-M.I-24	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles of (60 mm x 55 mm) / (60 mm x 58 mm) x 2.0 mm for outer frames, (70 mm x 60 mm)/ (72 mmx 60 mm) x 2.0 mm for mullion sections for two or more openable shutters (70 mm x 60 mm)/ (72 mm x 42 mm) x 2.0 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 window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ 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 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	7,051.00
<b>II</b>	SUB-SECTION	<b>SLIDING WINDOWS</b>		

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
521	TBSC-M.II-01	Providing and Fixing Pre-painted steel Sliding Window fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated steel as per IS 513 'D' quality, galvanized as per IS 277 thickness of 0.58 mm, primer coat with epoxy primer, finish painted with a polyester paint or powder coated with pure polyester powder and the section for external frame bottom of 79 x 44 mm, external frame sides and top of 69 x 24 mm, guide for top and bottom of 69 x 26 mm (Stainless Steel) and section for shutter of 26 x 30 mm and panelled with 5mm thick plain float glass fitted with EPDM gaskets sections cut to length, joined and assembled by means of corner bracket, including fixing windows in the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all taxes etc., complete for finished item of work	<b>1 Sqm</b>	<b>6,783.00</b>
522	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	<b>1 Sqm</b>	<b>5,302.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
523	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
524	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
525	TBSC-M.II-05	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	1 Sqm	6,801.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		<p>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 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>		
526	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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
527	TBSC-M.II-07	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 0.58mm thick and 29mm x 20mm of 0.58mm thick.	1 Sqm	6,095.00
528	TBSC-M.II-08	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	1 Sqm	6,095.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		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.		
529	TBSC-M.II-09	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows <b>two track sliding</b> duly manufactured using UPVC reinforced profiles of (62 mm x 60 mm)/(60 mm x 45 mm)/ (60 mm x 52 mm) x 2.0 mm for outer frames, (66 mm x 38 mm)/(58 mm x 39 mm)/ (60 mm x 42 mm) x 2.0 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 1.2 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 like locking system 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	<b>1 Sqm</b>	<b>6,391.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
530	TBSC-M.II-10	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows three track - only two glass shutters sliding duly manufactured using UPVC reinforced profiles of (80 mm x 52 mm)/ (94 mm x 45 mm) x 2.0 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 1.2 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 like locking system 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	1 Sqm	5,995.00
531	TBSC-M.II-11	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows three track - two glass shutters sliding and one mesh shutter duly manufactured using UPVC reinforced profiles of (94 mm x 45 mm)/(80 mm x 52 mm) / (88 mm x 52 mm) x 2.0 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) / (88 mm x 42 mm)x 2.0 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 1.2 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)/58 mm x 28 mm)/ (52 mm x 21.5 mm) x 2 mm fitted with nylon/ polymer mesh on rollers/ pulley duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories like locking system 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	1 Sqm	6,674.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
532	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 Diameterrmine 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
<b>III</b>	SUB-SECTION	<b>VENTILLATORS</b>		
533	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 2015-16
534	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
535	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 openable 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 openable 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 openable 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
536	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)	1 Sqm	4,177.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		outer frame box section size of 80 x 45mm , Vertical mullion section size of 80 x 60 mm		
537	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 openable 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 openable 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 openable 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
538	TBSC-M.III-06	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	1 Sqm	5,088.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		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		
539	TBSC-M.III-07	Providing, supplying & fixing of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having an overall size of 60 x 55 mm with reinforcement of 1 mm thickness and Mullion with overall size of 74 x 60 mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware. Wall thickness of frame & Mullion shall be 2.0 mm	1 Sqm	6,005.00
540	TBSC-M.III-08	Providing, supplying & fixing of Top hung Ventilator With Exhaust Fan Provision made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having a overall size of 60 x 55 mm with reinforcement of 1 mm thickness, Mullion with overall size of 74 x 60 mm with reinforcement of 1 mm thickness and Sash with overall size of 75 x 60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34 x 20 mm coextruded with gasket. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, single point locking and friction stays. Wall thickness of frame, mullion and sash shall be 2.0 mm	1 Sqm	8,450.00
<b>N</b>	<b>SECTION</b>	<b>STRUCTURAL GLAZING &amp; CURTAIN WALLING</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>FIXED GLAZING</b>		
541	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., excluding scaffolding 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 2015-16
542	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., excluding scaffolding 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
543	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 excluding scaffolding complete for finished item of work	1 Sqm	3,240.00
544	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 excluding scaffolding complete for finished item of work	1 Sqm	3,872.00
<b>II</b>	<b>SUB-SECTION</b>	<b>STRUCTURAL GLAZING</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
545	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
546	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
<b>III</b>	<b>SUB-SECTION</b>	<b>CURTAIN WALLING</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
547	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
<b>P</b>	<b>SECTION</b>	<b>FIXTURES FOR DOORS &amp; WINDOWS</b>		
		<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>TOWER BOLTS</b>		
548	TBSC-P.I-01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	177.00
549	TBSC-P.I-02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	260.00
550	TBSC-P.I-03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	347.00
551	TBSC-P.I-04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	431.00
552	TBSC-P.I-05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	530.00
553	TBSC-P.I-06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	77.00
554	TBSC-P.I-07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	95.00
555	TBSC-P.I-08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	114.00
556	TBSC-P.I-09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	141.00
557	TBSC-P.I-10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	170.00
558	TBSC-P.I-11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	198.00
559	TBSC-P.I-12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	534.00
560	TBSC-P.I-13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	676.00
561	TBSC-P.I-14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	26.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
562	TBSC-P.I-15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	38.00
563	TBSC-P.I-16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	56.00
564	TBSC-P.I-17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	75.00
565	TBSC-P.I-18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	93.00
<b>II</b>	<b>SUB-SECTION</b>	<b>HINGES</b>		
566	TBSC-P.II-01	Brass Butt hinges (IS:205)- 75 mm Long	Each	73.00
567	TBSC-P.II-02	Brass Butt hinges (IS:205)- 100 mm Long	Each	240.00
568	TBSC-P.II-03	Brass Butt hinges (IS:205)- 125 mm Long	Each	290.00
569	TBSC-P.II-04	Brass Butt hinges (IS:205)- 150 mm Long	Each	383.00
570	TBSC-P.II-05	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	111.00
571	TBSC-P.II-06	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	132.00
572	TBSC-P.II-07	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	159.00
573	TBSC-P.II-08	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	165.00
574	TBSC-P.II-09	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	12.00
575	TBSC-P.II-10	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	23.00
576	TBSC-P.II-11	MS-Powder Coated Butt hinges (IS:205)- 125 mm Long	Each	34.00
577	TBSC-P.II-12	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	44.00
578	TBSC-P.II-13	Deluxe window stay Aluminium	Each	144.00
579	TBSC-P.II-14	Brass Windows Stay	Each	224.00
580	TBSC-P.II-15	Friction stay hinges for windows	Each	107.00
581	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
582	TBSC-P.II-17	Box hinges for cup boards	1 Each	45.00
<b>III</b>	<b>SUB-SECTION</b>	<b>DOOR HANDLES</b>		
583	TBSC-P.III-01	Aluminium Door Handles (IS:208) 75 mm Long	Each	75.00
584	TBSC-P.III-02	Aluminium Door Handles (IS:208) 100 mm Long	Each	84.00
585	TBSC-P.III-03	Aluminium Door Handles (IS:208) 125 mm Long	Each	126.00
586	TBSC-P.III-04	Aluminium Door Handles (IS:208) 150 mm Long	Each	140.00
587	TBSC-P.III-05	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	34.00
588	TBSC-P.III-06	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	50.00
589	TBSC-P.III-07	Brass fancy handles 150 mm	Each	335.00
590	TBSC-P.III-08	Brass fancy handles 200 mm	Each	454.00
591	TBSC-P.III-09	Brass fancy handles 250 mm	Each	819.00
592	TBSC-P.III-10	Brass fancy handles 300 mm	Each	1,045.00
593	TBSC-P.III-11	Brass fancy handles 450 mm	Each	1,635.00
594	TBSC-P.III-12	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	348.00
595	TBSC-P.III-13	Keyless lock set for toilet doors with brass knob handles	Each	921.00
<b>IV</b>	<b>SUB-SECTION</b>	<b>ALDROPS</b>		
596	TBSC-P.IV-01	Brass Aldrop (IS:2681) 300 mm long	Each	1,284.00
597	TBSC-P.IV-02	Brass Aldrop (IS:2681) 350 mm long	Each	2,473.00
598	TBSC-P.IV-03	Brass Aldrop (IS:2681) 450 mm long	Each	3,522.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
599	TBSC-P.IV-04	Aluminium Aldrop (IS:2681) 200 mm long	Each	329.00
600	TBSC-P.IV-05	Aluminium Aldrop (IS:2681) 250 mm long	Each	391.00
601	TBSC-P.IV-06	Aluminium Aldrop (IS:2681) 300 mm long	Each	425.00
602	TBSC-P.IV-07	MS-Powder Coated Aldrop (IS:2681) 200 mm long	Each	115.00
603	TBSC-P.IV-08	MS-Powder Coated Aldrop (IS:2681) 250 mm long	Each	151.00
604	TBSC-P.IV-09	MS-Powder Coated Aldrop (IS:2681) 300 mm long	Each	181.00
<b>V</b>	<b>SUB-SECTION</b>	<b>LATCHES</b>		
605	TBSC-P.V-01	Brass latch heavy 300 mm	Each	644.00
606	TBSC-P.V-02	Brass latch heavy 350 mm	Each	740.00
607	TBSC-P.V-03	Brass latch heavy 450 mm	Each	976.00
608	TBSC-P.V-04	Aluminium Flat Latches: 200 mm long	Each	159.00
609	TBSC-P.V-05	Aluminium Flat Latches: 250 mm long	Each	179.00
610	TBSC-P.V-06	Aluminium Flat Latches: 300 mm long	Each	188.00
611	TBSC-P.V-07	MS-Powder Coated Flat Latches: 250 mm long	Each	58.00
612	TBSC-P.V-08	MS-Powder Coated Flat Latches: 300 mm long	Each	73.00
<b>VI</b>	<b>SUB-SECTION</b>	<b>DOOR CLOSURES</b>		
613	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
614	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
615	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
616	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
<b>VII</b>	<b>SUB-SECTION</b>	<b>FLOOR SPRINGS</b>		
617	TBSC-P.VII-01	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1,912.00
618	TBSC-P.VII-02	Double action Brass cover plate and cast brass body floor spring (IS 6315- Table-1)	Each	4,536.00
619	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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
620	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
621	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
<b>VIII</b>	<b>SUB-SECTION</b>	<b>MORTICE LOCKS</b>		
622	TBSC-P.VIII-01	Heavy duty mortice lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	935.00
623	TBSC-P.VIII-02	Heavy duty mortice lock 6/7 levers (IS:2209) with brass heavy handles	Each	2,405.00
<b>IX</b>	<b>SUB-SECTION</b>	<b>OTHER ACCESSORIES</b>		
624	TBSC-P.IX-01	Brass Door Stoppers	Each	198.00
625	TBSC-P.IX-02	MS-Powder Coated - Door Stoppers	Each	50.00
626	TBSC-P.IX-03	Heavy duty Aluminium Door stopper	Each	63.00
627	TBSC-P.IX-04	Rubber/ Nylon door stop bushes	1 Each	10.00
628	TBSC-P.IX-05	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	128.00
629	TBSC-P.IX-06	Supply & fixing drapery bracket - brass powder coated	pair	451.00
630	TBSC-P.IX-07	Nylon rollers for sliding glasses/ alluminium windows	1 Each	15.00
631	TBSC-P.IX-08	MS Z Hold fasts - 300 mm long of 40 x 40 x 5 mm ISA	1 Each	35.00
632	TBSC-P.IX-09	Magnetic Catchers	1 Each	15.00
<b>Q</b>	<b>SECTION</b>	<b>CONSTRUCTION CHEMICALS &amp; ADMIXTURES</b>		
		<b>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.</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>PLASTICIZERS</b>		
633	TBSC-Q.I-01	Concrete Plasticizers and Water reducing admixture Conforming to IS:9103-1999	1 Ltr	150.00
634	TBSC-Q.I-02	Early High Strength, High water retention, polycarboxylic plasticizers Conforming to IS:9103-1999	1 Kg	140.00
635	TBSC-Q.I-03	High performance super plasticizer and water reducing admixture Conforming to IS: 9103-1999	1 Kg	95.00
636	TBSC-Q.I-04	Super plasticizer for high range water reducing admixture Conforming to IS: 9103-1999	1 Kg	105.00
637	TBSC-Q.I-05	Super plasticizer, high range water reducing and retarding admixture complying with IS: 9103-1999	1 Kg	94.00
638	TBSC-Q.I-06	Plasticizer for accelerator for sprayed concrete Conforming to IS: 9103-1999.	1Kg	75.00
<b>II</b>	<b>SUB-SECTION</b>	<b>WATER PROOFING COMPOUNDS</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
639	TBSC-Q.II-01	Integral Cement Waterproofing Liquid Conforming to IS: 2645-2003	1 Ltr	210.00
640	TBSC-Q.II-02	High durable cementitious acrylic based waterproofing systems	1 Kg	115.00
641	TBSC-Q.II-03	Acrylic Polymer Elastomeric Cementitious Waterproof Coatings	1 Ltr	350.00
642	TBSC-Q.II-04	Single component, elastomeric waterproof membrane coating	1 Ltr	425.00
643	TBSC-Q.II-05	Quick setting, rapid hardening and water proofing compound Conforming to IS: I.S. 2645-2003	1 Ltr	80.00
644	TBSC-Q.II-06	Highly Flexible Waterproof Acrylic Elastomeric bituminous Blended Coatings	1 Ltr	300.00
<b>III</b>	<b>SUB-SECTION</b>	<b>BONDING AGENTS</b>		
645	TBSC-Q.III-01	Acrylic based Bonding adhesive	1 Ltr	150.00
646	TBSC-Q.III-02	Styrene butadiene rubber based bonding agent	1 Kg	450.00
647	TBSC-Q.III-03	Two Parts system of Epoxy Bonding adhesive Conforming to ASTM-C 881	1 Kg	870.00
<b>IV</b>	<b>SUB-SECTION</b>	<b>ANTI-CORROSIVE AGENTS</b>		
648	TBSC-Q.IV-01	Acrylic based Anti corrosive coating	1 Ltr	350.00
649	TBSC-Q.IV-02	Rust converter -rust encapsulating coating for steel	1 Ltr	480.00
650	TBSC-Q.IV-03	High range of reinforcement / steel protector against corrosion zinc rich epoxy resin primer	1 Kg	750.00
651	TBSC-Q.IV-04	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture	1 Lit	315.00
<b>V</b>	<b>SUB-SECTION</b>	<b>GROUTS</b>		
652	TBSC-Q.V-01	High Power Polyester Resin Anchor Grout Conforming to ASTM-827	1 Kg	271.00
653	TBSC-Q.V-02	Non-shrink Free flow high strength precision grout Conforming to BS 1881 Part 1161983.	1 Kg	34.00
654	TBSC-Q.V-03	Low viscosity Epoxy resin injection grout	1 Kg	800.00
655	TBSC-Q.V-04	Three component epoxy grout Conforming to IS: ASTM 827 (Three components)	1 Kg	160.00
<b>VI</b>	<b>SUB-SECTION</b>	<b>MISCELLANEOUS CHEMICALS</b>		
656	TBSC-Q.VI-01	Mould / Shutter releasing oil	1 Ltr	145.00
657	TBSC-Q.VI-02	Non oxidizing, heavy duty metallic Floor Hardeners	1 Kg	30.00
658	TBSC-Q.VI-03	Non-metallic Floor Hardeners	1 Kg	30.00
659	TBSC-Q.VI-04	High Strength, Non shrink Micro Concrete for structural repair product.	1 Kg	36.00
660	TBSC-Q.VI-05	Structural graded polymer modified reinstatement concrete / mortar(Two Part System)	1 Kg	85.00
661	TBSC-Q.VI-06	Three Component high performance elastomeric mortar.	1 Kg	950.00
662	TBSC-Q.VI-07	Surface treatment crystalline product.	1 Kg	360.00
663	TBSC-Q.VI-08	Polyurethane Sealant. 600 ml tube	1 No	730.00
664	TBSC-Q.VI-09	Polysulphide Sealant.	1 Kg	450.00
665	TBSC-Q.VI-10	Acrylic Latex caulking compound.	1 Kg	335.00
666	TBSC-Q.VI-11	Fast setting cement based plugging compound	1 Kg	85.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
667	TBSC-Q.VI-12	Highly Flexible High Range Polyurethane surface coatings	1 Ltr	650.00
668	TBSC-Q.VI-13	Coal Tar Epoxy	1 Kg	190.00
669	TBSC-Q.VI-14	Water Based Acrylic Blended High power curing compound	1 Kg	100.00
670	TBSC-Q.VI-15	Bituminous hot sealing compound	1 Kg	120.00
671	TBSC-Q.VI-16	Bitumen solution primer coating.	1 Kg	85.00
672	TBSC-Q.VI-17	Air Entraining Agent Conforming to IS: 9103-99	1 Ltr	120.00
673	TBSC-Q.VI-18	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1 Liter	228.00
<b>VII</b>	<b>SUB-SECTION</b>	<b>REPAIRING &amp; TREATMENT WORKS</b>		
674	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
675	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
676	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
677	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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
678	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
679	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
680	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
681	TBSC-Q.VII-08	Pressure grouting the drilled holes with neat cement slurry or with approved epoxy bonding agent using pump	1 Each	50.00
<b>VIII</b>	<b>SUB-SECTION</b>	<b>EXPANSION JOINTS</b>		
682	TBSC-Q.VIII-01	Supply of high performance expansion joint filler board conforming to IS: 1838 - 18 mm THICK	1 Sqm	804.00
683	TBSC-Q.VIII-02	Supply of high performance expansion joint filler board conforming to IS: 1838 - 20 mm THICK	1 Sqm	902.00
684	TBSC-Q.VIII-03	Supply of high performance expansion joint filler board conforming to IS: 1838 - 25 mm THICK	1 Sqm	1,127.00
685	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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
686	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
687	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
688	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
689	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
690	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
691	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
692	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
<b>R</b>	<b>SECTION</b>	<b>MISCELLANEOUS ITEMS</b>		
693	TBSC-R.I-01	Supply of White Cement conforming to IS:8042-1989	1 Kg	29.00
694	TBSC-R.I-02	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	670.00
695	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
696	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
697	TBSC-R.I-05	Providing hot dip galvanizing to any steel section as per IS:2629-1985	1 Kg	20.00
698	TBSC-R.I-06	Supply of Clear Silicone Sealant (Glass Glue Sealant) of Gun Applicator grade	1 Kg	233.00
699	TBSC-R.I-07	Supply of Sun Control film to the glazed windows partition including labour charges.	1 Sqm	329.00
700	TBSC-R.I-08	Supply of Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 Sqm	838.00
701	TBSC-R.I-09	Supply of Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 Sqm	798.00
702	TBSC-R.I-10	Supply of Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 Sqm	1,355.00
703	TBSC-R.I-11	Supply of Rubber Beading for glass fixing	1 RM	2.00
704	TBSC-R.I-12	Supply of Soft Brush for painting, varnishing etc	Each	148.00
705	TBSC-R.I-13	Supply of Wire Brush for scraping	Each	33.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
706	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	<b>1 Sqm</b>	<b>388.00</b>
707	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	<b>1 Sqm</b>	<b>443.00</b>
708	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	<b>1 Sqm</b>	<b>500.00</b>
709	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	<b>1 Sqm</b>	<b>2,586.00</b>
710	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	<b>1 Sqm</b>	<b>2,820.00</b>
711	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	<b>1 Sqm</b>	<b>3,163.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
712	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
713	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
714	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
715	TBSC-R.I-23	Supply of Aluminium sheet 24 Gauge	1 Sqm	302.00
716	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
717	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		
718	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	395.00
719	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	1,430.00
720	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	154.00
721	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	222.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
722	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
723	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
724	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
725	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
726	TBSC-R.I-34	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	124.00
727	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
728	TBSC-R.I-36	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	97.00
729	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
730	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
731	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 groove.	1 Sqm	799.00
732	TBSC-R.I-40	Preparing gabions with jungle wood	Each	3.00
733	TBSC-R.I-41	Planting plants	Each	2.00
734	TBSC-R.I-42	Pruning plants	Each	2.00
735	TBSC-R.I-43	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	6.00
736	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
737	TBSC-R.I-45	Hoisting or lowering of slab	1 cum	105.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
738	TBSC-R.I-46	Drilling holes in hard rock surfaces up to 18mm Diameter	1 RM	210.00
739	TBSC-R.I-47	Drilling holes in hard rock above 18mm Diameter	1 RM	293.00
740	TBSC-R.I-48	Making holes up to 18mm Diameter in RCC/ any stones up to 50 mm thick	1 Each	35.00
741	TBSC-R.I-49	Making holes above 18mm Diameter in RCC/ any stones above 50 mm thick	1 Each	49.00
<b>S</b>	<b>SECTION</b>	<b>MACHINERY &amp; OTHER HIRE CHARGES</b>		
742	TBSC-S.I-01	Machine charges of rubbing/ polishing floor	1 Hr	268.00
743	TBSC-S.I-02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	125.00
744	TBSC-S.I-03	Power Drill - Hand Operated - Hire Charges	1 Hr	116.00
745	TBSC-S.I-04	Grinding Mortar (Special Grinding)	1 Hr	134.00
746	TBSC-S.I-05	Casuarinas Balli Props - 3" to 4" Diameter - 12'-0" Height	Each	73.00
747	TBSC-S.I-06	Casuarinas Balli Props - 4" to 8" Diameter - 20'-0" Height	Each	121.00
748	TBSC-S.I-07	Wall Plate Brackets / beam bottom supports	Each	212.00
749	TBSC-S.I-08	Wedge Plate fixture	Each	10.00
750	TBSC-S.I-09	Runner beams of approximately 4" x 4" size	RM	425.00
751	TBSC-S.I-10	Steel Plates for form works	1 Sqm	1,609.00
752	TBSC-S.I-11	Scaffolding Pipes & Centering accessories	1 Kg	121.00
753	TBSC-S.I-12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	130.00
754	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
755	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
<b>T</b>	<b>SECTION</b>	<b>LABOUR CHARGES</b>		
756	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	220.00
757	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	260.00
758	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	303.00
759	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	349.00
760	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	542.00
761	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	655.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
762	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	<b>1 Sqm</b>	<b>550.00</b>
763	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	<b>1 Sqm</b>	<b>840.00</b>
764	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	<b>1 Sqm</b>	<b>428.00</b>
765	TBSC-T.I-10	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	<b>1 Rm</b>	<b>95.00</b>
766	TBSC-T.I-11	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	<b>1 Rm</b>	<b>289.00</b>
767	TBSC-T.I-12	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	<b>1 Rm</b>	<b>374.00</b>
768	TBSC-T.I-13	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	<b>1 RM</b>	<b>15.00</b>
769	TBSC-T.I-14	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	<b>1 Rm</b>	<b>45.00</b>
770	TBSC-T.I-15	Grooves 2-3 mm	<b>1 Rm</b>	<b>50.00</b>
771	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	<b>1 Kg</b>	<b>24.00</b>
772	TBSC-T.I-17	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	<b>1 Kg</b>	<b>4.00</b>
773	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	<b>1 Kg</b>	<b>21.00</b>
774	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	<b>1 Kg</b>	<b>19.00</b>
775	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	<b>1 Kg</b>	<b>119.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		finish		
776	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	1,596.00
777	TBSC-T.I-22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	868.00
778	TBSC-T.I-23	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Reverse Etching work	1 Sqm	1,074.00
779	TBSC-T.I-24	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1,342.00
780	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	348.00
781	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	260.00
782	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	1,427.00
783	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	1,349.00
784	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	1,183.00
785	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	925.00
786	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	713.00
787	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	913.00
788	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	1,377.00
789	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	940.00
790	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	1,124.00
791	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	757.00

## SCAFFOLDING charges in the Telangana Buildings SoR: 2015-16

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
792	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	<b>1 Sqm</b>	<b>957.00</b>
793	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	<b>1 Sqm</b>	<b>538.00</b>
794	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	<b>1 Sqm</b>	<b>626.00</b>
795	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	<b>1 Sqm</b>	<b>1,320.00</b>
796	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	<b>1 Sqm</b>	<b>1,261.00</b>
797	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	<b>1 Sqm</b>	<b>1,094.00</b>
798	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	<b>1 Sqm</b>	<b>856.00</b>
799	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	<b>1 Sqm</b>	<b>685.00</b>
800	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	<b>1 Sqm</b>	<b>854.00</b>
801	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	<b>1 Sqm</b>	<b>1,273.00</b>
802	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	<b>1 Sqm</b>	<b>870.00</b>
803	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	<b>1 Sqm</b>	<b>1,039.00</b>
804	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	<b>1 Sqm</b>	<b>736.00</b>
805	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	<b>1 Sqm</b>	<b>920.00</b>
806	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	<b>1 Sqm</b>	<b>511.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
807	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
808	TBSC-T.I-53	Dressing faces of granite stone (double line dressing)	1 Sqm	174.00
809	TBSC-T.I-54	Dressing faces of other than granite stone(double line dressing)	1 Sqm	108.00
<b>U</b>	<b>SECTION</b>	<b>DISMANTLING</b>		
810	TBSC-U.I-01	Stone masonry in cement mortar	1 Cum	361.00
811	TBSC-U.I-02	Terracing work in roofs or floors	1 Sqm	15.00
812	TBSC-U.I-03	Flat stones in roof or floors including lifting	1Sqm	13.00
813	TBSC-U.I-04	Pan tiled or Mangalore tiled roof without roof timbers.	1Sqm	11.00
814	TBSC-U.I-05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	1Sqm	13.00
815	TBSC-U.I-06	Wrought and framed timber in roofs or floors	1 Cum	188.00
816	TBSC-U.I-07	Old lime mortar plaster	1Sqm	4.00
817	TBSC-U.I-08	Old cement mortar plaster	1Sqm	5.00
818	TBSC-U.I-09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	60.00
819	TBSC-U.I-10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	44.00
820	TBSC-U.I-11	Kadapa slabs or Shahabad stone slabs flooring on sand bed	1Sqm	6.00
821	TBSC-U.I-12	Through scraping of old plastered surface	1Sqm	4.00
822	TBSC-U.I-13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	1Sqm	1.00
823	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
824	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 shall be of first quality & ISI marked wherever possible and as approved, workmanship shall be 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
	TBSC - Denotes Telangana Buildings SoR Civil items
	A.I/ R.IV - Denotes the Section & Sub-section
	01/22 - Denotes the serial number of the item

## SCAFFOLDING charges in the Telangana Buildings SoR: 2015-16

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges		Labour charges		Centring Charges for 2015-16		Unit of Measurement
1	2	3		4		5		6
<b>HIRE CHARGES FOR CENTERING &amp; SCAFFOLDING</b>								
A	FOOTINGS	Rs.	277.00	Rs.	473.00	Rs.	750.00	per 1 cum
B	BED BLOCKS, BANDS	Rs.	61.00	Rs.	244.00	Rs.	305.00	per 1 cum
C	PEDESTALS	Rs.	315.00	Rs.	753.00	Rs.	1068.00	per 1 cum
D	PLINTH BEAMS	Rs.	1335.00	Rs.	1141.00	Rs.	2476.00	per 1 cum
<b>HIRE CHARGES FOR CENTERING &amp; SCAFFOLDING - Unsupported Height upto 3.66 M Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates,etc.,</b>								
E	LINTELS	Rs.	1133.00	Rs.	1211.00	Rs.	2344.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	224.00	Rs.	186.00	Rs.	410.00	per 1 sqm
G	COLUMNS	Rs.	341.00	Rs.	1700.00	Rs.	2041.00	per 1 cum
H	BEAMS	Rs.	2002.00	Rs.	1426.00	Rs.	3428.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	227.00	Rs.	162.00	Rs.	389.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	233.00	Rs.	166.00	Rs.	399.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	244.00	Rs.	174.00	Rs.	418.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	824.00	Rs.	587.00	Rs.	1411.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	578.00	Rs.	412.00	Rs.	990.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	2276.00	Rs.	1621.00	Rs.	3897.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	2308.00	Rs.	1644.00	Rs.	3952.00	per 1 cum
P	DOME SLABS	Rs.	3681.00	Rs.	2621.00	Rs.	6302.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	280.00	Rs.	200.00	Rs.	480.00	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	Rs.	1160.00	Rs.	1238.00	Rs.	2398.00	per 1 sqm
Note: - Centring & scaffolding charges for steel scaffolding with pipes, jack props, steel centering 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								
<b>HIRE CHARGES FOR CENTERING &amp; SCAFFOLDING - Unsupported Height upto 3.66 M Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc.,</b>								
E	LINTELS	Rs.	760.00	Rs.	953.00	Rs.	1713.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	150.00	Rs.	146.00	Rs.	296.00	per 1 sqm
G	COLUMNS	Rs.	229.00	Rs.	1338.00	Rs.	1567.00	per 1 cum
H	BEAMS	Rs.	1342.00	Rs.	1122.00	Rs.	2464.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	152.00	Rs.	127.00	Rs.	279.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	156.00	Rs.	131.00	Rs.	287.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	164.00	Rs.	137.00	Rs.	301.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	553.00	Rs.	462.00	Rs.	1015.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	387.00	Rs.	324.00	Rs.	711.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	1526.00	Rs.	1276.00	Rs.	2802.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	1547.00	Rs.	1294.00	Rs.	2841.00	per 1 cum
P	DOME SLABS	Rs.	2467.00	Rs.	2063.00	Rs.	4530.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	188.00	Rs.	157.00	Rs.	345.00	per 1 sqm

## SCAFFOLDING charges in the Telangana Buildings SoR: 2015-16

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges		Labour charges		Centering for 2015-16		Unit of Measurement
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.	61.83	Rs.	71.76	per 1 sqm
B	2nd - Floor	Rs.	9.93	Rs.	87.78	Rs.	97.71	per 1 sqm
C	3rd - Floor	Rs.	9.93	Rs.	113.74	Rs.	123.66	per 1 sqm
D	4th - Floor	Rs.	9.93	Rs.	139.69	Rs.	149.62	per 1 sqm
E	5th - Floor	Rs.	9.93	Rs.	165.64	Rs.	175.57	per 1 sqm
F	6th - Floor	Rs.	9.93	Rs.	191.59	Rs.	201.52	per 1 sqm
G	7th - Floor	Rs.	9.93	Rs.	217.54	Rs.	227.47	per 1 sqm
H	8th - Floor	Rs.	9.93	Rs.	243.50	Rs.	253.42	per 1 sqm
I	9th - Floor	Rs.	9.93	Rs.	269.45	Rs.	279.38	per 1 sqm
J	10th - Floor	Rs.	9.93	Rs.	295.40	Rs.	305.33	per 1 sqm
K	11th - Floor	Rs.	9.93	Rs.	321.35	Rs.	331.28	per 1 sqm
L	12th - Floor	Rs.	9.93	Rs.	347.30	Rs.	357.23	per 1 sqm
M	13th - Floor	Rs.	9.93	Rs.	373.26	Rs.	383.18	per 1 sqm
N	14th - Floor	Rs.	9.93	Rs.	399.21	Rs.	409.14	per 1 sqm
O	15th - Floor	Rs.	9.93	Rs.	425.16	Rs.	435.09	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.	6.18	Rs.	7.18	per 1 sqm
B	2nd - Floor	Rs.	0.99	Rs.	8.78	Rs.	9.77	per 1 sqm
C	3rd - Floor	Rs.	0.99	Rs.	11.37	Rs.	12.37	per 1 sqm
D	4th - Floor	Rs.	0.99	Rs.	13.97	Rs.	14.96	per 1 sqm
E	5th - Floor	Rs.	0.99	Rs.	16.56	Rs.	17.56	per 1 sqm
F	6th - Floor	Rs.	0.99	Rs.	19.16	Rs.	20.15	per 1 sqm
G	7th - Floor	Rs.	0.99	Rs.	21.75	Rs.	22.75	per 1 sqm
H	8th - Floor	Rs.	0.99	Rs.	24.35	Rs.	25.34	per 1 sqm
I	9th - Floor	Rs.	0.99	Rs.	26.94	Rs.	27.94	per 1 sqm
J	10th - Floor	Rs.	0.99	Rs.	29.54	Rs.	30.53	per 1 sqm
K	11th - Floor	Rs.	0.99	Rs.	32.14	Rs.	33.13	per 1 sqm
L	12th - Floor	Rs.	0.99	Rs.	34.73	Rs.	35.72	per 1 sqm
M	13th - Floor	Rs.	0.99	Rs.	37.33	Rs.	38.32	per 1 sqm
N	14th - Floor	Rs.	0.99	Rs.	39.92	Rs.	40.91	per 1 sqm
O	15th - Floor	Rs.	0.99	Rs.	42.52	Rs.	43.51	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.	12.55	Rs.	14.92	per 1 sqm
B	2nd - Floor	Rs.	2.37	Rs.	17.64	Rs.	20.00	per 1 sqm
C	3rd - Floor	Rs.	2.37	Rs.	22.73	Rs.	25.09	per 1 sqm
D	4th - Floor	Rs.	2.37	Rs.	27.82	Rs.	30.18	per 1 sqm
E	5th - Floor	Rs.	2.37	Rs.	32.91	Rs.	35.27	per 1 sqm
F	6th - Floor	Rs.	2.37	Rs.	38.00	Rs.	40.36	per 1 sqm
G	7th - Floor	Rs.	2.37	Rs.	43.08	Rs.	45.45	per 1 sqm
H	8th - Floor	Rs.	2.37	Rs.	48.17	Rs.	50.54	per 1 sqm
I	9th - Floor	Rs.	2.37	Rs.	53.26	Rs.	55.63	per 1 sqm
J	10th - Floor	Rs.	2.37	Rs.	58.35	Rs.	60.72	per 1 sqm
K	11th - Floor	Rs.	2.37	Rs.	63.44	Rs.	65.81	per 1 sqm
L	12th - Floor	Rs.	2.37	Rs.	68.53	Rs.	70.90	per 1 sqm
M	13th - Floor	Rs.	2.37	Rs.	73.62	Rs.	75.99	per 1 sqm
N	14th - Floor	Rs.	2.37	Rs.	78.71	Rs.	81.08	per 1 sqm
O	15th - Floor	Rs.	2.37	Rs.	83.80	Rs.	86.17	per 1 sqm

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

FLOOR		LINTELS	CHAJJA - SUN SHADES	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	1211.00	186.00	1700.00	1426.00	162.00	166.00	174.00	587.00	412.00	1621.00	1644.00	2621.00	200.00	1238.00
Total Hire Charges (H+L)	T	2344.00	410.00	2041.00	3428.00	389.00	399.00	418.00	1411.00	990.00	3897.00	3952.00	6302.00	480.00	2398.00

1st - Floor	L	1211.00	186.00	1700.00	1426.00	162.00	166.00	174.00	587.00	412.00	1621.00	1644.00	2621.00	200.00	1238.00
2nd - Floor	L	1332.00	205.00	1870.00	1569.00	178.00	183.00	191.00	646.00	453.00	1783.00	1808.00	2883.00	220.00	1362.00
3rd - Floor	L	1453.00	223.00	2040.00	1711.00	194.00	199.00	209.00	704.00	494.00	1945.00	1973.00	3145.00	240.00	1486.00
4th - Floor	L	1574.00	242.00	2210.00	1854.00	211.00	216.00	226.00	763.00	536.00	2107.00	2137.00	3407.00	260.00	1609.00
5th - Floor	L	1695.00	260.00	2380.00	1996.00	227.00	232.00	244.00	822.00	577.00	2269.00	2302.00	3669.00	280.00	1733.00
6th - Floor	L	1817.00	279.00	2550.00	2139.00	243.00	249.00	261.00	881.00	618.00	2432.00	2466.00	3932.00	300.00	1857.00
7th - Floor	L	1938.00	298.00	2720.00	2282.00	259.00	266.00	278.00	939.00	659.00	2594.00	2630.00	4194.00	320.00	1981.00
8th - Floor	L	2059.00	316.00	2890.00	2424.00	275.00	282.00	296.00	998.00	700.00	2756.00	2795.00	4456.00	340.00	2105.00
9th - Floor	L	2180.00	335.00	3060.00	2567.00	292.00	299.00	313.00	1057.00	742.00	2918.00	2959.00	4718.00	360.00	2228.00
10th - Floor	L	2301.00	353.00	3230.00	2709.00	308.00	315.00	331.00	1115.00	783.00	3080.00	3124.00	4980.00	380.00	2352.00
11th - Floor	L	2422.00	372.00	3400.00	2852.00	324.00	332.00	348.00	1174.00	824.00	3242.00	3288.00	5242.00	400.00	2476.00
12th - Floor	L	2543.00	391.00	3570.00	2995.00	340.00	349.00	365.00	1233.00	865.00	3404.00	3452.00	5504.00	420.00	2600.00
13th - Floor	L	2664.00	409.00	3740.00	3137.00	356.00	365.00	383.00	1291.00	906.00	3566.00	3617.00	5766.00	440.00	2724.00
14th - Floor	L	2785.00	428.00	3910.00	3280.00	373.00	382.00	400.00	1350.00	948.00	3728.00	3781.00	6028.00	460.00	2847.00
15th - Floor	L	2906.00	446.00	4080.00	3422.00	389.00	398.00	418.00	1409.00	989.00	3890.00	3946.00	6290.00	480.00	2971.00

Note: - Centering & scaffolding charges for steel scaffolding with pipes, jack props, steel centering 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 Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates, Steel Centering 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
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	953.00	146.00	1338.00	1122.00	127.00	131.00	137.00	462.00	324.00	1276.00	1294.00	2063.00	157.00
Total Hire Charges (H+L)	T	1713.00	296.00	1567.00	2464.00	279.00	287.00	301.00	1015.00	711.00	2802.00	2841.00	4530.00	345.00
1st - Floor	L	953.00	146.00	1338.00	1122.00	127.00	131.00	137.00	462.00	324.00	1276.00	1294.00	2063.00	157.00
2nd - Floor	L	1048.00	161.00	1472.00	1234.00	140.00	144.00	151.00	508.00	356.00	1404.00	1423.00	2269.00	173.00
3rd - Floor	L	1144.00	175.00	1606.00	1346.00	152.00	157.00	164.00	554.00	389.00	1531.00	1553.00	2476.00	188.00
4th - Floor	L	1239.00	190.00	1739.00	1459.00	165.00	170.00	178.00	601.00	421.00	1659.00	1682.00	2682.00	204.00
5th - Floor	L	1334.00	204.00	1873.00	1571.00	178.00	183.00	192.00	647.00	454.00	1786.00	1812.00	2888.00	220.00
6th - Floor	L	1430.00	219.00	2007.00	1683.00	191.00	197.00	206.00	693.00	486.00	1914.00	1941.00	3095.00	236.00
7th - Floor	L	1525.00	234.00	2141.00	1795.00	203.00	210.00	219.00	739.00	518.00	2042.00	2070.00	3301.00	251.00
8th - Floor	L	1620.00	248.00	2275.00	1907.00	216.00	223.00	233.00	785.00	551.00	2169.00	2200.00	3507.00	267.00
9th - Floor	L	1715.00	263.00	2408.00	2020.00	229.00	236.00	247.00	832.00	583.00	2297.00	2329.00	3713.00	283.00
10th - Floor	L	1811.00	277.00	2542.00	2132.00	241.00	249.00	260.00	878.00	616.00	2424.00	2459.00	3920.00	298.00
11th - Floor	L	1906.00	292.00	2676.00	2244.00	254.00	262.00	274.00	924.00	648.00	2552.00	2588.00	4126.00	314.00
12th - Floor	L	2001.00	307.00	2810.00	2356.00	267.00	275.00	288.00	970.00	680.00	2680.00	2717.00	4332.00	330.00
13th - Floor	L	2097.00	321.00	2944.00	2468.00	279.00	288.00	301.00	1016.00	713.00	2807.00	2847.00	4539.00	345.00
14th - Floor	L	2192.00	336.00	3077.00	2581.00	292.00	301.00	315.00	1063.00	745.00	2935.00	2976.00	4745.00	361.00
15th - Floor	L	2287.00	350.00	3211.00	2693.00	305.00	314.00	329.00	1109.00	778.00	3062.00	3106.00	4951.00	377.00

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
<b>A</b>	<b>SECTION</b>	<b>BRICKS &amp; BUILDING BLOCKS</b>
III	SUB-SECTION	Aerocon, Siporex, Nucon, NCL
<b>C</b>	<b>SECTION</b>	<b>WALL &amp; FLOOR TILES</b>
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 - Marplex, Amstrong,
		TILE ADHESIVE - MYK LATICRETE
<b>F</b>	<b>SECTION</b>	<b>GLASS MATERIALS</b> - Modifloat, Asahi, Saint-Gobain, Binani, HNG,
<b>G</b>	<b>SECTION</b>	<b>PAINTS &amp; POLISHES</b> - Asian, Berger, Nerolac, British Paints, JK Paints, Saicoat, Indocem, ESSAR, Sheenlac, Suryacem, Neon, Wallz, Walrus - SYNTHETIC PLASTER - NCL Alltek, MYK LATICRETE, Multichem, Essar
<b>H</b>	<b>SECTION</b>	<b>PARTICLE BOARDS</b> - NCL Bison, Ramco-Hilux, Ramco-Hicem, Everest-board, Visakha-board, Rajshri, Innsula, Aerocon, Aerolite, Novopan, Bhutan-board
<b>J</b>	<b>SECTION</b>	<b>PLYWOODS, LAMINATES &amp; VENEERS</b> - Kitply, Century Ply, National Ply, Bhutan Ply, Samrat, Gurjan ply, Aamoda
<b>K</b>	<b>SECTION</b>	<b>CEILINGS, WALL PARTITIONS &amp; WALL LININGS</b> - Ramco-Hilux, Everest-board, Visakha-board, Rajshri, Innsula, Gypsum India, Saintgobain, Armstrong, Daikin, NCL-Seccolor, NCL Bison,
<b>L</b>	<b>SECTION</b>	<b>DOORS, SHUTTERS&amp;FRAMES</b> - 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
<b>M</b>	<b>SECTION</b>	<b>WINDOWS &amp; VENTILLATORS</b> - NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, NCL-Wintech, Fenesta, LG, Ahlada
<b>N</b>	<b>SECTION</b>	<b>STRUCTURAL GLAZING &amp; CURTAIN WALLING</b> - NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG
<b>P</b>	<b>SECTION</b>	<b>FIXTURES FOR DOORS &amp; WINDOWS</b> - Jyoti, Classic, Hardwyn
<b>Q</b>	<b>SECTION</b>	<b>CONSTRUCTION CHEMICALS &amp; ADMIXTURES</b>
		<b>MAKE, APPLICATION METHOD, AREA AND DOSAGE</b>
I	SUB-SECTION	<b>PLASTICIZERS</b>
	TBSC-Q.I-01	* Conplax 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, * Conflow * Consplax Dosage: 400ml to 500ml per 50Kgs cement. heavy reinforced concrete and multipurpose concrete works, for M40+ grade concrete. *Essar Powerplast Superflow (Dosage: 15 ml to 40 ml per bag of Cement)
	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 . * Essar Powerplast S (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, *Essar- Powerplast S (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.*Essar-Powerplast SP 35 (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.* Essar Powerplast-200 or Equivalent (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required )
II	SUB-SECTION	<b>WATER PROOFING COMPOUNDS</b>
	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). *Essar Powerproofing No. 1 (Dosage : 100 ml 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. (12-14 m <sup>2</sup> in two coats to achieve 1mm thickness). Terrace, Water Tanks, Walls Waterproof Coatings : of Two Part System: ). *Essar -- Powerproof No. 1 (100 mL Per Bag of 50 Kgs Cement)
	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
	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 :

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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).* Essar RapidPower (Dosage : 1 to 3 Ltrs per bag of 50 Kgs Cement
	TBSC-Q.II-06	*Rainseal Flexi Coat B300 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	<b>BONDING AGENTS</b>
	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	<b>ANTI-CORROSIVE AGENTS</b>
	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 ) * Concure-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	<b>GROUTS</b>
	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 Powergrout Anchor. (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 Powergrout GP1 (Yield 13.5 Ltrs Per 25 Kgs Bag). *Essar Powergrout GP1 (Yield 13.5 Ltrs Per 25 Kgs Bag).

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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 Powergrout EPL
	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 PowerGrout EP
VI	SUB-SECTION	<b>MISCELLANEOUS CHEMICALS</b>
	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 atrate 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 atrate 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 CMGoF 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. *Essar – Powerflex PU
	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

LIST of approved brands in the Telangana Buildings SoR: 2015-16

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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 *Renderoc Plug of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriplug 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.
	TBSC-Q.VI-14	*Roofexcure 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 Powerplast AEA (Dosage : 5ml to 25 ml per bag of 50 Kgs Cement) (Dosage : 15ml per Bag of 50 Kgs Cement)
VII	SUB-SECTION	<b>REPAIRING &amp; TREATMENT WORKS</b>
	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
	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.

LIST of approved brands in the Telangana Buildings SoR: 2015-16

<b>Sl. No</b>	<b>SECTION</b>	<b>NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER</b>
	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
<b>R</b>	<b>SECTION</b>	<b>MISCELLANEOUS ITEMS</b>
		(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

INDEX FOR PLUMBING ITEMS OF TELANGANA BUILDINGS SoR: 2015-16					
Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
<b>A</b>	<b>SECTION</b>		<b>S.W.G. PIPES&amp;FITTINGS</b>	121	124
			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
I	SUB-SECTION	TBSP-A.I-01-09	SUPPLY & LAYING OF SWG PIPES	121	122
II	SUB-SECTION	TBSP-A.II-01-59	S.W.G. PIPES &FITTINGS	122	124
III	SUB-SECTION	TBSP-A.III-01-05	LABOUR CHARGES FOR SWG WORKS	124	124
<b>B</b>	<b>SECTION</b>		<b>MANHOLES &amp; INSPECTION CHAMBERS</b>	125	127
I	SUB-SECTION	TBSP-B.I-01-04	MANHOLES	125	126
II	SUB-SECTION	TBSP-B.II-01-13	INSPECTION CHAMBERS	126	127
III	SUB-SECTION	TBSP-B.III-01-01	LABOUR CHARGES FOR IC WORKS	127	127
<b>C</b>	<b>SECTION</b>		<b>CENTRIFUGAL CI PIPES&amp;FITTINGS - IS : 1729</b>	127	131
I	SUB-SECTION	TBSP-C.I-01-06	SUPPLY & LAYING OF CAST IRON PIPES	127	128
II	SUB-SECTION	TBSP-C.II-01-33	SUPPLYING & LAYING OF C.I. FITTINGS	128	131
III	SUB-SECTION	TBSP-C.III-01-08	LABOUR CHARGES FOR CI PIPE WORKS	131	131
<b>D</b>	<b>SECTION</b>		<b>CENTRIFUGAL CI PIPES&amp;FITTINGS - IS : 3989</b>	131	134
I	SUB-SECTION	TBSP-D.I-01-13	SUPPLY OF CENTRIFUGAL CI PIPES	131	132
II	SUB-SECTION	TBSP-D.II-01-95	SUPPLY OF C.I. SPUN FITTINGS	132	134
<b>E</b>	<b>SECTION</b>		<b>VITREOUS CHINAWARE - SANITARY APPLIANCES</b>	135	140
I	SUB-SECTION	TBSP-E.I-01-07	INDIAN WATER CLOSETS	135	135
II	SUB-SECTION	TBSP-E.II-01-06	FLOOR MOUNTED EWC	135	136
III	SUB-SECTION	TBSP-E.III-01-03	WALL MOUNTED EWC	136	137
IV	SUB-SECTION	TBSP-E.IV-01-03	CISTERNS FOR WATER CLOSETS	137	137
V	SUB-SECTION	TBSP-E.V-01-02	PLASTIC SEATS FOR WATER CLOSETS	137	137
VI	SUB-SECTION	TBSP-E.VI-01-16	WASH HAND BASINS	137	139
VII	SUB-SECTION	TBSP-E.VII-01-04	URINALS	139	139
VIII	SUB-SECTION	TBSP-E.VIII-01-12	LABOUR CHARGES FOR SANITARY WARE	139	140
<b>F</b>	<b>SECTION</b>		<b>CP FITTINGS - TAPS, FAUCETS &amp; ACCESSORIES</b>	140	145
I	SUB-SECTION	TBSP-F.I-01-08	TAPS&FAUCETS - BIB TAPS	140	140
II	SUB-SECTION	TBSP-F.II-01-09	TAPS&FAUCETS - PILLAR TAPS	141	141
III	SUB-SECTION	TBSP-F.III-01-07	TAPS&FAUCETS - OTHER TAPS & SPOUTS	141	141
IV	SUB-SECTION	TBSP-F.IV-01-07	STOP & ANGLE VALVES	142	142
V	SUB-SECTION	TBSP-F.V-01-09	COMBINATION FAUCETS	142	142
VI	SUB-SECTION	TBSP-F.VI-01-08	SHOWERS & FITTINGS	143	143
VII	SUB-SECTION	TBSP-F.VII-01-41	MISCELLANEOUS CP FITTINGS	143	145
VIII	SUB-SECTION	TBSP-F.VIII-01-05	LABOUR CHARGES	145	145
<b>G</b>	<b>SECTION</b>		<b>G.I. PIPES&amp;FITTINGS</b>	145	148
I	SUB-SECTION	TBSP-G.I-01-13	G.I. PIPES	145	146
II	SUB-SECTION	TBSP-G.II-01-24	G.I. FITTINGS	146	147

<b>Sl. No</b>	<b>SECTION</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>FROM</b>	<b>TO</b>
III	SUB-SECTION	TBSP-G.III-01-27	GUNMETAL (COPPER ALLOY) VALVES	147	148
IV	SUB-SECTION	TBSP-G.IV-01-03	LABOUR CHARGES FOR G.I PLUMBING	148	148
<b>H</b>	<b>SECTION</b>		<b>PVC PIPES&amp;FITTINGS</b>	148	153
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II	SUB-SECTION	TBSP-H.II-01-96	PVC FITTINGS	150	153
III	SUB-SECTION	TBSP-H.III-01-10	PVC PLUMBING ACCESSORIES	153	153
IV	SUB-SECTION	TBSP-H.IV-01-03	LABOUR CHARGES FOR PVC PLUMBING	153	153
<b>J</b>	<b>SECTION</b>		<b>MISCELLANEOUS ITEMS</b>	153	166
I	SUB-SECTION	TBSP-J.I-01-40	MISCELLANEOUS PLUMBING WORK ITEMS	153	155
II	SUB-SECTION	TBSP-J.II-01-17	POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES	155	158
III	SUB-SECTION	TBSP-J.III-01-195	OTHER VARIETIES OF PIPES	158	166

# PLUMBING ITEMS

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
1	2	3	4	5
		<b>Note: All the prices of the materials are landing costs, including material VAT, loading, cost of conveyance, unloading &amp; stacking at site.</b>		
<b>A</b>	<b>SECTION</b>	<b>S.W.G. PIPES&amp;FITTINGS</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>SUPPLY &amp; LAYING OF S.W.G. PIPES</b>		
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	<b>466.00</b>
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	<b>408.00</b>
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	<b>680.00</b>
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	<b>614.00</b>
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 including cost & conveyance of all materials and all labour charges.	1 RM	<b>240.00</b>
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 including cost & conveyance of all materials and all labour charges.	1 RM	<b>327.00</b>
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	<b>87.00</b>
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	<b>163.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>568.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>S.W.G. PIPES&amp;FITTINGS</b>		
10	TBSP-A.II-01	Supply of SWG SP-1 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	<b>181.00</b>
11	TBSP-A.II-02	Supply of SWG SP-1 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	<b>314.00</b>
12	TBSP-A.II-03	Supply of SWG SP-1 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	<b>485.00</b>
13	TBSP-A.II-04	Supply of SWG SP-1 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	<b>888.00</b>
14	TBSP-A.II-05	Supply of SWG SP-1 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	<b>1,280.00</b>
15	TBSP-A.II-06	Supply of SWG SP-1 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	<b>1,742.00</b>
16	TBSP-A.II-07	Supply of SWG SP-2 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	<b>223.00</b>
17	TBSP-A.II-08	Supply of SWG SP-2 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	<b>332.00</b>
18	TBSP-A.II-09	Supply of SWG SP-2 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	<b>599.00</b>
19	TBSP-A.II-10	Supply of SWG SP-2 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	<b>941.00</b>
20	TBSP-A.II-11	Supply of SWG SP-2 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	<b>1,446.00</b>
21	TBSP-A.II-12	Supply of SWG SP-2 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	<b>1,875.00</b>
22	TBSP-A.II-13	Supply of SWG SP-2 pipe conforming to ISI 651 - 16" dia (400 mm)	1 RM	<b>2,159.00</b>
23	TBSP-A.II-14	Supply of SWG SP-2 pipe conforming to ISI 651 - 18" dia (450 mm)	1 RM	<b>2,756.00</b>
24	TBSP-A.II-15	Supply of SWG SP-3 pipe conforming to ISI 651 - 4" dia (101.6mm)	1 RM	<b>285.00</b>
25	TBSP-A.II-16	Supply of SWG SP-3 pipe conforming to ISI 651 - 6" dia (152.4mm)	1 RM	<b>415.00</b>
26	TBSP-A.II-17	Supply of SWG SP-3 pipe conforming to ISI 651 - 8" dia (203.2mm)	1 RM	<b>734.00</b>
27	TBSP-A.II-18	Supply of SWG SP-3 pipe conforming to ISI 651 - 10" dia (254 mm)	1 RM	<b>1,115.00</b>
28	TBSP-A.II-19	Supply of SWG SP-3 pipe conforming to ISI 651 - 12" dia (300 mm)	1 RM	<b>1,558.00</b>
29	TBSP-A.II-20	Supply of SWG SP-3 pipe conforming to ISI 651 - 14" dia (350 mm)	1 RM	<b>1,979.00</b>
30	TBSP-A.II-21	Supply of SWG SP-2 pipe conforming to ISI 651 - 16" dia (400 mm)	1 RM	<b>2,278.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
31	TBSP-A.II-22	Supply of SWG SP-3 pipe conforming to ISI 651 - 18" dia (450 mm)	1 RM	<b>3,099.00</b>
32	TBSP-A.II-23	Supply of SWG Bends conforming to IS standards -100 mm dia	Each	<b>91.00</b>
33	TBSP-A.II-24	Supply of SWG Bends conforming to IS standards -150 mm dia	Each	<b>168.00</b>
34	TBSP-A.II-25	Supply of SWG Bends conforming to IS standards -200 mm dia	Each	<b>317.00</b>
35	TBSP-A.II-26	Supply of SWG Bends conforming to IS standards -250 mm dia	Each	<b>643.00</b>
36	TBSP-A.II-27	Supply of SWG Bends conforming to IS standards -300 mm dia	Each	<b>816.00</b>
37	TBSP-A.II-28	Supply of SWG Bends conforming to IS standards -350 mm dia	Each	<b>1,020.00</b>
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	<b>175.00</b>
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	<b>258.00</b>
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	<b>281.00</b>
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	<b>400.00</b>
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	<b>468.00</b>
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	<b>537.00</b>
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	<b>631.00</b>
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	<b>833.00</b>
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	<b>1,031.00</b>
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	<b>1,234.00</b>
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	<b>900.00</b>
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	<b>1,153.00</b>
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	<b>1,405.00</b>
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	<b>1,659.00</b>
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	<b>1,911.00</b>
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	<b>1,123.00</b>
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	<b>1,440.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>1,756.00</b>
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	<b>2,070.00</b>
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	<b>2,387.00</b>
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	<b>2,701.00</b>
59	TBSP-A.II-50	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	<b>33.00</b>
60	TBSP-A.II-51	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	<b>63.00</b>
61	TBSP-A.II-52	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	<b>120.00</b>
62	TBSP-A.II-53	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	<b>208.00</b>
63	TBSP-A.II-54	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	<b>329.00</b>
64	TBSP-A.II-55	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	<b>413.00</b>
65	TBSP-A.II-56	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	<b>254.00</b>
66	TBSP-A.II-57	Supply of SWG Saddles conforming to IS standards 150 x 100 mm	Each	<b>184.00</b>
67	TBSP-A.II-58	Supply of SWG Saddles conforming to IS standards 200 x 100 mm	Each	<b>317.00</b>
68	TBSP-A.II-59	Supply of SWG Saddles conforming to IS standards 250 x 100 mm	Each	<b>513.00</b>
<b>III</b>	<b>SUB-SECTION</b>	<b>LABOUR CHARGES FOR SWG WORKS</b>		
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	<b>232.00</b>
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	<b>288.00</b>
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	<b>37.00</b>
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	<b>51.00</b>
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	<b>30.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
<b>B</b>	<b>SECTION</b>	<b>MANHOLES &amp; INSPECTION CHAMBERS - AS PER - IS 4111 : Part 1 : 1986</b>		-
<b>I</b>	<b>SUB-SECTION</b>	<b>MANHOLES</b>		
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	<b>6,730.00</b>
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	<b>10,590.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>6,518.00</b>
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	<b>10,181.00</b>
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	<b>6,346.00</b>
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	<b>3,825.00</b>
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	<b>474.00</b>

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81	TBSP-B.II-04	Constructing Brick masonry supports for G.I pipe with Brick in C.M (1:6) Prop and of size 304.8 x 228.6 x228.6 mm including plastering and finishing etc., complete.	Each	<b>76.00</b>
82	TBSP-B.II-05	Supply & fixing RCC cover 22" dia with nominal reinforcement 3 " thick and hooks for lifting	Each	<b>734.00</b>
83	TBSP-B.II-06	Supplying & fixing 304.8 x 228.6 mm CI frame & cover over gully taps	Each	<b>124.00</b>
84	TBSP-B.II-07	Supplying & fixing CI Nahany trap grating	Each	<b>20.00</b>
85	TBSP-B.II-08	Supplying & fixing CI gully trap grating	Each	<b>50.00</b>
86	TBSP-B.II-09	Supplying & fixing 914.4 x 457.2 mm CI man hole frame and cover (light weight) 30 Kgs	Each	<b>2,020.00</b>
87	TBSP-B.II-10	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	<b>3,008.00</b>
88	TBSP-B.II-11	Supplying & fixing CI steps for septic tank.	Each	<b>65.00</b>
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	<b>1,299.00</b>
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	<b>2,683.00</b>
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	<b>126.00</b>
C	SECTION	<b>C.I. PIPES&amp;FITTINGS - AS PER - IS 1729:1979 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)</b>		
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	<b>760.00</b>
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	<b>998.00</b>

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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	<b>1,598.00</b>
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	<b>831.00</b>
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	<b>1,109.00</b>
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	<b>1,841.00</b>
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	<b>296.00</b>
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	<b>376.00</b>
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	<b>624.00</b>
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	<b>367.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>455.00</b>
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	<b>994.00</b>
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	<b>462.00</b>
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	<b>723.00</b>
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	<b>1,714.00</b>
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	<b>388.00</b>
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	<b>531.00</b>
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	<b>1,276.00</b>
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	<b>704.00</b>
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	<b>855.00</b>
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	<b>1,999.00</b>
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	<b>608.00</b>
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	<b>799.00</b>
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	<b>1,872.00</b>
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	<b>298.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>417.00</b>
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	<b>909.00</b>
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	<b>355.00</b>
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	<b>472.00</b>
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	<b>931.00</b>
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	<b>410.00</b>
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	<b>531.00</b>
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	<b>1,082.00</b>
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	<b>539.00</b>
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	<b>660.00</b>
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	<b>329.00</b>
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	<b>181.00</b>
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	<b>227.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>652.00</b>
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	<b>227.00</b>
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	<b>72.00</b>
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	<b>90.00</b>
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	<b>98.00</b>
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	<b>45.00</b>
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	<b>59.00</b>
137	TBSP-C.III-07	Boxing of Nahany traps in RCC floors	Each	<b>191.00</b>
138	TBSP-C.III-08	Boxing of W.C Traps in R.C.C floors	Each	<b>383.00</b>
<b>D</b>	<b>SECTION</b>	<b>CENTRIFUGAL CAST IRON PIPES&amp;FITTINGS AS PER IS: 3989 - 1984</b>		
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	<b>1,500.00</b>
140	TBSP-D.I-02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	<b>1,997.00</b>
141	TBSP-D.I-03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	<b>3,661.00</b>
142	TBSP-D.I-04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	<b>1,665.00</b>
143	TBSP-D.I-05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	<b>2,247.00</b>
144	TBSP-D.I-06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	<b>1,349.00</b>
145	TBSP-D.I-07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	<b>1,802.00</b>
146	TBSP-D.I-08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	<b>1,207.00</b>
147	TBSP-D.I-09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	<b>1,604.00</b>
148	TBSP-D.I-10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	<b>982.00</b>
149	TBSP-D.I-11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	<b>1,281.00</b>
150	TBSP-D.I-12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	<b>1,032.00</b>
151	TBSP-D.I-13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	<b>1,281.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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

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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
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
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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
224	TBSP-D.II-73	4" x 3" (101.6 mm x 76.2mm ) Vent Traps 100 mm dia - CI (Spun) fittings	Each	<b>915.00</b>
225	TBSP-D.II-74	4" x 3" (101.6 mm x 76.2mm ) Reducer 75 mm dia - CI (Spun) fittings	Each	<b>568.00</b>
226	TBSP-D.II-75	6" x 4" (152.4 mm x101.6 mm ) Reducer 75 mm dia - CI (Spun) fittings	Each	<b>778.00</b>
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	<b>486.00</b>
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	<b>758.00</b>
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	<b>758.00</b>
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	<b>758.00</b>
231	TBSP-D.II-80	4" x 3" (101.6 mm x 76.2mm ) Plain T 75 mm dia - CI (Spun) fittings	Each	<b>758.00</b>
232	TBSP-D.II-81	4" x 3" (101.6 mm x 76.2mm ) Door T 75 mm dia - CI (Spun) fittings	Each	<b>803.00</b>
233	TBSP-D.II-82	4" x 3" (101.6 mm x 76.2mm ) Plain Y 75 mm dia - CI (Spun) fittings	Each	<b>803.00</b>
234	TBSP-D.II-83	4" x 3" (101.6 mm x 76.2mm ) Door Y 75 mm dia - CI (Spun) fittings	Each	<b>857.00</b>
235	TBSP-D.II-84	6" x 4" (152.4 mm x101.6 mm ) Plain T 75 mm dia - CI (Spun) fittings	Each	<b>1,122.00</b>
236	TBSP-D.II-85	6" x 4" (152.4 mm x101.6 mm ) Door T 75 mm dia - CI (Spun) fittings	Each	<b>1,216.00</b>
237	TBSP-D.II-86	6" x 4" (152.4 mm x101.6 mm ) Plain Y 75 mm dia - CI (Spun) fittings	Each	<b>1,286.00</b>
238	TBSP-D.II-87	6" x 4" (152.4 mm x101.6 mm ) Door Y 75 mm dia - CI (Spun) fittings	Each	<b>1,572.00</b>
239	TBSP-D.II-88	75 mm dia Plain " T" 27 " (685.8 mm ) Special Types of Long Fittings	Each	<b>1,629.00</b>
240	TBSP-D.II-89	100 mm dia - Plain " T" 27 " (685.8 mm ) Special Types of Long CI (Spun) fittings	Each	<b>2,288.00</b>
241	TBSP-D.II-90	75 mm dia Door "T" 27" (685.8 mm ) Special Types of Long CI (Spun) fittings	Each	<b>1,819.00</b>
242	TBSP-D.II-91	100mm dia Door "T" 27" (685.8 mm ) Special Types of Long CI (Spun) fittings	Each	<b>2,514.00</b>
243	TBSP-D.II-92	75 mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	<b>1,819.00</b>
244	TBSP-D.II-93	100mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	<b>2,514.00</b>
245	TBSP-D.II-94	75 mm dia Door " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	<b>2,028.00</b>
246	TBSP-D.II-95	100mm dia Door " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	<b>2,760.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
<b>E</b>	<b>SECTION</b>	<b>VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 - 2004 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>INDIAN WATER CLOSETS</b>		
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	<b>1,048.00</b>
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	<b>1,048.00</b>
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	<b>1,584.00</b>
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	<b>1,665.00</b>
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	<b>254.00</b>
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	<b>328.00</b>
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	<b>98.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>FLOOR MOUNTED EWC</b>		
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	<b>1,860.00</b>
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	<b>1,964.00</b>
256	TBSP-E.II-03	Supply, Installation and commissioning approved make floor mounted AngloIndian 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	<b>6,000.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>9,689.00</b>
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	<b>14,159.00</b>
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	<b>18,035.00</b>
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	<b>10,285.00</b>
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	<b>13,772.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>16,247.00</b>
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	<b>2,534.00</b>
264	TBSP-E.IV-02	Supplying & Fixing internal cistern fittings for dual flush cisterns	Each	<b>1,749.00</b>
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	<b>3,938.00</b>
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	<b>891.00</b>
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	<b>1,771.00</b>
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 complete with standard CI brackets including wooden block: 660 x 460 mm - Single C.P. Pillar cock	Each	<b>2,713.00</b>
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 complete with standard CI brackets including wooden block: 630 x 450 mm - Single C.P. Pillar cock	Each	<b>2,402.00</b>
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 complete with standard CI brackets including wooden block: 630 x 450 mm - Double C.P. Pillar cock	Each	<b>2,945.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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 complete with standard CI brackets including wooden block: 550 x 400 mm - Single C.P. Pillar cock	Each	<b>1,782.00</b>
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 complete with standard CI brackets including wooden block: 550 x 400 mm - Double C.P. Pillar cock	Each	<b>2,169.00</b>
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 complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock	Each	<b>1,550.00</b>
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 complete with standard CI brackets including wooden block: 450 x 300 mm - Double C.P. Pillar cock	Each	<b>2,015.00</b>
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 complete with standard CI brackets including wooden block with single CP pillar cock	Each	<b>3,850.00</b>
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	<b>4,959.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	5,579.00
278	TBSP-E.VI-11	Supplying & fixing oval shape basin white 520x410mm/540 x 450 mm	Each	2,729.00
279	TBSP-E.VI-12	Supplying and Fixing Pedestal for Wash Hand Basin	Each	1,256.00
280	TBSP-E.VI-13	Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	7,552.00
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	5,953.00
282	TBSP-E.VI-15	Supplying & fixing stainless steel sink size 20" x18" x 8 " (508x457.2x203.2mm) 1 mm thick with accessories	Each	5,396.00
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	791.00
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	930.00
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	2,790.00
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	3,100.00
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	545.00
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	302.00
289	TBSP-E.VIII-02	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	377.00
290	TBSP-E.VIII-03	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	69.00
291	TBSP-E.VIII-04	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	528.00
292	TBSP-E.VIII-05	Labour charges only for fixing internal cistern fittings of any flushing tank	Each	263.00
293	TBSP-E.VIII-06	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	264.00
294	TBSP-E.VIII-07	Labour charges only for fixing plastic seat and lid for European water closet	Each	76.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>377.00</b>
296	TBSP-E.VIII-09	Labour charges only for fixing pedestal for wash hand basin	Each	<b>136.00</b>
297	TBSP-E.VIII-10	Labour charges only for fixing bottle trap to the wash hand basin	Each	<b>53.00</b>
298	TBSP-E.VIII-11	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	<b>150.00</b>
299	TBSP-E.VIII-12	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	<b>377.00</b>
<b>F</b>	<b>SECTION</b>	<b>CP FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>TAPS&amp;FAUCETS - BIB TAPS</b>		
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 connection conforming to IS 8931	Each	<b>245.00</b>
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 connection conforming to IS 8931	Each	<b>599.00</b>
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 connection conforming to IS 8931 and with 7 - 10 years warranty	Each	<b>850.00</b>
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 7 - 10 years warranty	Each	<b>1,200.00</b>
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	<b>855.00</b>
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 7 - 10 years warranty	Each	<b>1,100.00</b>
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 7 - 10 years warranty	Each	<b>3,213.00</b>
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	<b>765.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>626.00</b>
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	<b>810.00</b>
310	TBSP-F.II-03	S&F of 15 mm brass body Premium variety Chromium plated finish pillar cock with aerator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 7-10 years	Each	<b>825.00</b>
311	TBSP-F.II-04	S&F of 15 mm brass body Premium variety Chromium plated finish long neck pillar cock with aerator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 7-10 years	Each	<b>1,100.00</b>
312	TBSP-F.II-05	S&F of 15 mm brass body Premium variety Chromium plated finish single lever pillar cock with aerator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 7-10 years	Each	<b>1,200.00</b>
313	TBSP-F.II-06	S&F premium make Sensotronic sensor faucet for wash basin, and with 7 - 10 years warranty	Each	<b>14,532.00</b>
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 7 - 10 years warranty	Each	<b>14,532.00</b>
315	TBSP-F.II-08	S&F premium make Auto closing system pillar cock for wash basin, and with 7 - 10 years warranty	Each	<b>2,408.00</b>
316	TBSP-F.II-09	S&F premium make Auto Closing system Bibcock, and with 7 - 10 years warranty	Each	<b>2,526.00</b>
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	<b>271.00</b>
318	TBSP-F.III-02	S&F of 15 mm brass body CP finish self closing tap lift type conforming to IS 1711	Each	<b>237.00</b>
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 aerator of not less than 500 grams weight quarter turn spindle conforming to IS 8931 and with a warranty of 10 years	Each	<b>1,600.00</b>
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	<b>2,300.00</b>
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	<b>1,400.00</b>
322	TBSP-F.III-06	S&F of 15 mm bath tub spout minimum 180 mm projection with diverter system	Each	<b>1,305.00</b>
323	TBSP-F.III-07	S&F of 15 mm bath tub spout with tip ton minimum 180 mm projection with diverter system	Each	<b>1,755.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>231.00</b>
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	<b>247.00</b>
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	<b>236.00</b>
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	<b>783.00</b>
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	<b>607.00</b>
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 7 - 10 years warranty	Each	<b>950.00</b>
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	<b>607.00</b>
V	SUB-SECTION	COMBINATION FAUCETS		
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	<b>2,786.00</b>
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	<b>2,147.00</b>
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 7 - 10 years warranty	Each	<b>3,650.00</b>
333	TBSP-F.V-04	S&F of 15 mm brass forged body concealed diverter with regular flow	Each	<b>3,380.00</b>
334	TBSP-F.V-05	S&F of 15 mm brass forged body concealed diverter with high flow	Each	<b>4,383.00</b>
335	TBSP-F.V-06	S&F of 15 mm brass forged body concealed diverter forged body with 3 way in let	Each	<b>4,203.00</b>
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 7 - 10 years warranty	Each	<b>2,741.00</b>
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 7 - 10 years warranty	Each	<b>3,200.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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 7 - 10 years warranty	Each	<b>2,800.00</b>
VI	SUB-SECTION	SHOWERS & FITTINGS		
339	TBSP-F.VI-01	S&F 15 mm nominal size 152.0 mm CP finish iron body shower	Each	<b>186.00</b>
340	TBSP-F.VI-02	S&F 15 mm nominal size 137.0 mm CP finish iron body shower	Each	<b>179.00</b>
341	TBSP-F.VI-03	S&F 15 mm nominal size 101.6 mm CP finish iron body shower	Each	<b>170.00</b>
342	TBSP-F.VI-04	S&F 15 mm nominal size CP finish shower 200 mm dia with CP finish flexible pipe	Each	<b>576.00</b>
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	<b>1,233.00</b>
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 7 - 10 years warranty	Each	<b>1,500.00</b>
345	TBSP-F.VI-07	S&F 15 mm nominal size over head 5 flow round massage shower	Each	<b>873.00</b>
346	TBSP-F.VI-08	S&F 15 mm nominal size 5 flow hand shower with rabbit cleaning system and 1.5 m long flexible hose and wall hook.	Each	<b>1,800.00</b>
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	<b>256.00</b>
348	TBSP-F.VII-02	S&F of 15 mm CP finish brass body health faucet gun	Each	<b>210.00</b>
349	TBSP-F.VII-03	S&F CP finish brass bottle trap 250 mm long with wall connection pipe & wall Flange	Each	<b>950.00</b>
350	TBSP-F.VII-04	S&F CP finish brass bottle trap 190mm long with wall connection pipe & wall Flange	Each	<b>954.00</b>
351	TBSP-F.VII-05	S&F PVC bottle trap with wall connection pipe	Each	<b>142.00</b>
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	<b>234.00</b>
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	<b>255.00</b>
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	<b>302.00</b>
355	TBSP-F.VII-09	S&F brass body CP spreader for urinals	Each	<b>156.00</b>
356	TBSP-F.VII-10	S&F CP finish steel towel rod of 600 mm long and 20 mm dia with brackets	Each	<b>396.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
357	TBSP-F.VII-11	S&F CP finish brass towel rod 600 mm long and 20 mm dia with brackets	Each	<b>1,071.00</b>
358	TBSP-F.VII-12	S&F of Towel rod 24 " premium make powder coated stainless steel body with 7 - 10 years warranty	Each	<b>3,240.00</b>
359	TBSP-F.VII-13	S&F CP finish brass wall mounted towel ring	Each	<b>617.00</b>
360	TBSP-F.VII-14	S&F of Chromium plated finish stainless steel body Towel Ring with 7 - 10 years warranty	Each	<b>1,004.00</b>
361	TBSP-F.VII-15	S&F of powder coated brass body finish Towel ring premium make with 7 - 10 years warranty	Each	<b>2,073.00</b>
362	TBSP-F.VII-16	S&F of Chromium plated finish stainless steel body towel rail 24" with 7 - 10 years warranty	Each	<b>1,621.00</b>
363	TBSP-F.VII-17	S&F powder coated stainless steel body wall mounted towel rack 600 mm long	Each	<b>3,402.00</b>
364	TBSP-F.VII-18	S&F CP finish brass metal body single coat hook	Each	<b>405.00</b>
365	TBSP-F.VII-19	S&F CP finish brass robe hook	Each	<b>315.00</b>
366	TBSP-F.VII-20	Supply & Fixing Double coat hook with 7 - 10 years warranty	Each	<b>750.00</b>
367	TBSP-F.VII-21	S&F CP finish brass soap dish	Each	<b>567.00</b>
368	TBSP-F.VII-22	S&F Stainless steel liquid soap container wall mounted and bottle type	Each	<b>450.00</b>
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 7 - 10 years warranty	Each	<b>5,509.00</b>
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 7 - 10 years warranty	Each	<b>8,666.00</b>
371	TBSP-F.VII-25	S&F of Chromium plated finish stainless steel body Toilet paper holder with 7 - 10 years warranty	Each	<b>873.00</b>
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	<b>63.00</b>
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	<b>76.00</b>
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	<b>165.00</b>
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	<b>172.00</b>
376	TBSP-F.VII-30	S&F brass body plumber union of size 31.75 mm dia with check nut	Each	<b>69.00</b>
377	TBSP-F.VII-31	S&F brass body plumber union of size 38.1 mm dia with check nut	Each	<b>75.00</b>
378	TBSP-F.VII-32	S&F 4" dia CP thimble pipe: 150 mm long	Each	<b>413.00</b>
379	TBSP-F.VII-33	S&F 4" dia CP thimble pipe: 220 mm long	Each	<b>617.00</b>
380	TBSP-F.VII-34	S&F 4" dia CP thimble pipe: 300 mm long	Each	<b>824.00</b>
381	TBSP-F.VII-35	S&F CP long bend	Each	<b>349.00</b>
382	TBSP-F.VII-36	S&F CP short bend	Each	<b>175.00</b>
383	TBSP-F.VII-37	Supply & fixing of LLC handle set 1st quality	Each	<b>79.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
384	TBSP-F.VII-38	S&F premium make copper pipe 450 mm long with nuts & washers with 7 - 10 years warranty	Each	<b>419.00</b>
385	TBSP-F.VII-39	S&F premium make copper pipe 450 mm long with nuts & washers power colour coated and with 7 - 10 years warranty	Each	<b>811.00</b>
386	TBSP-F.VII-40	S&F of Chromium plated finish stainless steel body Tumbler holder with 7 - 10 years warranty	Each	<b>1,093.00</b>
387	TBSP-F.VII-41	S&F of Chromium plated finish stainless steel body Glass shelf 22" with 7 - 10 years warranty	Each	<b>2,149.00</b>
VIII	SUB-SECTION	LABOUR CHARGES		
388	TBSP-F.VIII-01	Labour charges for fixing all types of CP TapS&Faucets	Each	<b>44.00</b>
389	TBSP-F.VIII-02	Labour charges for fixing all types of CP Stop & Angle Valves	Each	<b>85.00</b>
390	TBSP-F.VIII-03	Labour charges for fixing all types of wall combination taps, mixers & diverters	Each	<b>150.00</b>
391	TBSP-F.VIII-04	Labour charges for fixing all types of miscellaneous CP fittings	Each	<b>85.00</b>
392	TBSP-F.VIII-05	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000	<b>25.00</b>
<b>G</b>	<b>SECTION</b>	<b>G.I. PIPES&amp;FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)</b>		
I	SUB-SECTION	G.I. PIPES		
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	<b>184.00</b>
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	<b>211.00</b>
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	<b>277.00</b>
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	<b>385.00</b>
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	<b>436.00</b>
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	<b>475.00</b>
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	<b>204.00</b>
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	<b>227.00</b>

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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	<b>297.00</b>
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	<b>417.00</b>
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	<b>466.00</b>
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	<b>503.00</b>
405	TBSP-G.I-13	S&F 65 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	<b>892.00</b>
II	SUB-SECTION	G.I. FITTINGS		
406	TBSP-G.II-01	S&F GI union 15 mm nominal size 1st Quality	Each	<b>45.00</b>
407	TBSP-G.II-02	S&F GI union 20 mm nominal size 1st Quality	Each	<b>54.00</b>
408	TBSP-G.II-03	S&F GI union 25 mm nominal size 1st Quality	Each	<b>83.00</b>
409	TBSP-G.II-04	S&F GI union 30 mm nominal size 1st Quality	Each	<b>102.00</b>
410	TBSP-G.II-05	S&F GI union 40 mm nominal size 1st Quality	Each	<b>122.00</b>
411	TBSP-G.II-06	S&F GI union 50 mm nominal size 1st Quality	Each	<b>151.00</b>
412	TBSP-G.II-07	S&F GI connector 25 mm nominal size dia	Each	<b>90.00</b>
413	TBSP-G.II-08	S&F 15 mm nominal size GI 'T' A class 1st quality	Each	<b>55.00</b>
414	TBSP-G.II-09	S&F 30 mm nominal size dia GI bend 1st quality	Each	<b>83.00</b>
415	TBSP-G.II-10	S&F 30 mm nominal size dia GI 'T' 1st Quality	Each	<b>81.00</b>
416	TBSP-G.II-11	S&F 25 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	<b>469.00</b>
417	TBSP-G.II-12	S&F 20 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	<b>384.00</b>
418	TBSP-G.II-13	S&F 15 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	<b>249.00</b>
419	TBSP-G.II-14	Supplying & fixing leather washers for 15 mm nominal size bib tap and stop cock	Each	<b>1.00</b>
420	TBSP-G.II-15	Supplying & fixing leather washers for 20 mm nominal size bib tap and stop cock	Each	<b>3.00</b>
421	TBSP-G.II-16	Supplying & Fixing 15 mm nominal size fibre washers	Each	<b>3.00</b>
422	TBSP-G.II-17	Supplying & Fixing 20 mm nominal size fibre washers	Each	<b>3.00</b>
423	TBSP-G.II-18	S&F 15 mm nominal size holder bat clamps	Each	<b>13.00</b>
424	TBSP-G.II-19	S&F 20 mm nominal size holder bat clamps	Each	<b>21.00</b>
425	TBSP-G.II-20	S&F 25 mm nominal size holder bat clamps	Each	<b>28.00</b>
426	TBSP-G.II-21	S&F 40 mm nominal size holder bat clamps	Each	<b>32.00</b>
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	<b>47.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
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	<b>68.00</b>
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	<b>81.00</b>
III	SUB-SECTION	GUN METAL (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	<b>636.00</b>
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	<b>858.00</b>
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	<b>1,233.00</b>
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	<b>1,875.00</b>
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	<b>2,533.00</b>
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	<b>3,711.00</b>
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	<b>5,730.00</b>
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	<b>8,494.00</b>
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	<b>470.00</b>
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	<b>686.00</b>
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	<b>1,073.00</b>
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	<b>1,574.00</b>
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	<b>2,184.00</b>
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	<b>443.00</b>
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	<b>576.00</b>
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	<b>870.00</b>
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	<b>1,200.00</b>
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	<b>1,450.00</b>
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	<b>2,300.00</b>
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	<b>207.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	155.00
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	88.00
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	67.00
<b>H</b>	<b>SECTION</b>	<b>PVC PIPES&amp;FITTINGS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)</b>		
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
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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
470	TBSP-H.I-11	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>294.00</b>
471	TBSP-H.I-12	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>356.00</b>
472	TBSP-H.I-13	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>132.00</b>
473	TBSP-H.I-14	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>202.00</b>
474	TBSP-H.I-15	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>243.00</b>
475	TBSP-H.I-16	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>111.00</b>
476	TBSP-H.I-17	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>163.00</b>
477	TBSP-H.I-18	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>210.00</b>
478	TBSP-H.I-19	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>67.00</b>
479	TBSP-H.I-20	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>112.00</b>
480	TBSP-H.I-21	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>140.00</b>
481	TBSP-H.I-22	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>1,153.00</b>
482	TBSP-H.I-23	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>432.00</b>
483	TBSP-H.I-24	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>696.00</b>
484	TBSP-H.I-25	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>828.00</b>
485	TBSP-H.I-26	75 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>473.00</b>
486	TBSP-H.I-27	90 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>750.00</b>
487	TBSP-H.I-28	110 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>914.00</b>
488	TBSP-H.I-29	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>284.00</b>
489	TBSP-H.I-30	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>441.00</b>
490	TBSP-H.I-31	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>525.00</b>
491	TBSP-H.I-32	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>303.00</b>
492	TBSP-H.I-33	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>459.00</b>
493	TBSP-H.I-34	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>567.00</b>
494	TBSP-H.I-35	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>205.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
495	TBSP-H.I-36	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>318.00</b>
496	TBSP-H.I-37	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>387.00</b>
497	TBSP-H.I-38	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>177.00</b>
498	TBSP-H.I-39	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>260.00</b>
499	TBSP-H.I-40	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>314.00</b>
500	TBSP-H.I-41	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>114.00</b>
501	TBSP-H.I-42	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>178.00</b>
502	TBSP-H.I-43	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>227.00</b>
503	TBSP-H.I-44	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>1,885.00</b>
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	<b>6.00</b>
505	TBSP-H.II-02	Supply of Plastic storage tank lid with hinges	Each	<b>76.00</b>
506	TBSP-H.II-03	Supply & Fixing 75 mm nominal size dia PVC elbow Ist quality	Each	<b>47.00</b>
507	TBSP-H.II-04	Supply & fixing 30 mm nominal size dia PVC flexible waste pipe of 914.4 mm length of Ist quality	Each	<b>26.00</b>
508	TBSP-H.II-05	Supply & Fixing 40 mm nominal size dia PVC solid waste pipe outlet	Each	<b>89.00</b>
509	TBSP-H.II-06	Supply & fixing Fancy PVC shelf including all fittings	Each	<b>212.00</b>
510	TBSP-H.II-07	Supply & fixing of PVC low level system with internal components & short bend: 10 Liters capacity Single Flush	Each	<b>1,455.00</b>
511	TBSP-H.II-08	Supply & fixing of PVC low level system with internal components & short bend: 10 liters capacity Dual Flush	Each	<b>1,708.00</b>
512	TBSP-H.II-09	Supply & fixing of PVC low level system with internal components & short bend: 8 Liters capacity single Flush	Each	<b>823.00</b>
513	TBSP-H.II-10	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>50.00</b>
514	TBSP-H.II-11	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>70.00</b>
515	TBSP-H.II-12	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>83.00</b>
516	TBSP-H.II-13	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>67.00</b>
517	TBSP-H.II-14	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>95.00</b>

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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
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

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
556	TBSP-H.II-53	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	<b>14.00</b>
557	TBSP-H.II-54	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	<b>17.00</b>
558	TBSP-H.II-55	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	<b>19.00</b>
559	TBSP-H.II-56	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>11.00</b>
560	TBSP-H.II-57	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>14.00</b>
561	TBSP-H.II-58	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>14.00</b>
562	TBSP-H.II-59	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>15.00</b>
563	TBSP-H.II-60	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>17.00</b>
564	TBSP-H.II-61	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>18.00</b>
565	TBSP-H.II-62	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	<b>35.00</b>
566	TBSP-H.II-63	P' Trap ( Small without Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	<b>188.00</b>
567	TBSP-H.II-64	P' Trap ( Small with Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	<b>208.00</b>
568	TBSP-H.II-65	P' Trap (Big with Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	<b>238.00</b>
569	TBSP-H.II-66	P' Trap ( Big without Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	<b>219.00</b>
570	TBSP-H.II-67	Floor Trap (Bell Mouth ) 110 mm - UPVC/SWR Pipe fittings	Each	<b>227.00</b>
571	TBSP-H.II-68	Bell Mouth Trap 7 " ( 177.8 mm ) - UPVC/SWR Pipe fittings	Each	<b>330.00</b>
572	TBSP-H.II-69	4" (101.6 mm ) Nahany Trap ( Without Jali with inlet)UPVC/SWR Pipe fittings	Each	<b>112.00</b>
573	TBSP-H.II-70	3" (75 mm nominal size ) Nahany Trap ( without Jali without inlet)UPVC/SWR Pipe fittings	Each	<b>87.00</b>
574	TBSP-H.II-71	4" (101.6 mm ) Nahany Trap ( without inlet without Jali)UPVC/SWR Pipe fittings	Each	<b>108.00</b>
575	TBSP-H.II-72	Mini Trap - UPVC/SWR Pipe fittings	Each	<b>53.00</b>
576	TBSP-H.II-73	3" (75 mm nominal size ) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	<b>102.00</b>
577	TBSP-H.II-74	4" (101.6 mm ) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	<b>144.00</b>
578	TBSP-H.II-75	4" (101.6) multi floor trap without Jalli- UPVC/SWR Pipe fittings	Each	<b>112.00</b>
579	TBSP-H.II-76	Round Jali - UPVC/SWR Pipe fittings	Each	<b>24.00</b>
580	TBSP-H.II-77	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	<b>39.00</b>
581	TBSP-H.II-78	Pipe connector ( with LIP ring ) - UPVC/SWR Pipe fittings	Each	<b>151.00</b>
582	TBSP-H.II-79	Pipe connector ( without LIP ring ) - UPVC/SWR Pipe fittings	Each	<b>117.00</b>
583	TBSP-H.II-80	4" (101.6 mm ) Floor Trap - UPVC/SWR Pipe fittings	Each	<b>138.00</b>
584	TBSP-H.II-81	5" (127.mm ) floor Trap - UPVC/SWR Pipe fittings	Each	<b>146.00</b>
585	TBSP-H.II-82	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	<b>57.00</b>
586	TBSP-H.II-83	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	<b>64.00</b>
587	TBSP-H.II-84	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	<b>74.00</b>
588	TBSP-H.II-85	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	<b>53.00</b>
589	TBSP-H.II-86	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	<b>61.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	70.00
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	31.00
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	Providing solder joints up to 50 mm nominal size dia pipes including solder materials and labour charges	Each	66.00
614	TBSP-J.I-02	Providing solution joints up to 50 mm nominal size pipes including solution joint materials and labour charges	Each	13.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
615	TBSP-J.I-03	Chiseling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	<b>30.00</b>
616	TBSP-J.I-04	Chiseling the stone masonry wall and repairs as directed by the department.	1 Rm	<b>143.00</b>
617	TBSP-J.I-05	Chiseling the brick masonry wall and repairs as directed by the department.	1 Rm	<b>30.00</b>
618	TBSP-J.I-06	Painting the flushing tank with white enamel paint	Each	<b>113.00</b>
619	TBSP-J.I-07	S&F internal cistern fittings for PVC flush tank	Each	<b>820.00</b>
620	TBSP-J.I-08	Repairing and over hauling flushing tank	Each	<b>94.00</b>
621	TBSP-J.I-09	Removing and re-fixing W.C s	Each	<b>245.00</b>
622	TBSP-J.I-10	Removing and re-fixing wash hand basins of any size with fittings complete	Each	<b>220.00</b>
623	TBSP-J.I-11	Removing 15 mm nominal size GI pipe and re-fixing the same	Mr.	<b>68.00</b>
624	TBSP-J.I-12	Removing 20 mm nominal size GI pipe and re-fixing the same	Mr.	<b>75.00</b>
625	TBSP-J.I-13	Removing 25 mm nominal size GI pipe and re-fixing the same	Mr.	<b>112.00</b>
626	TBSP-J.I-14	Removing 40 mm nominal size GI pipe and re-fixing the same	Rm	<b>142.00</b>
627	TBSP-J.I-15	Removing 50 mm nominal size GI pipe and re-fixing the same	Rm	<b>166.00</b>
628	TBSP-J.I-16	Cleaning the W.C with acid and Vim powder	Each	<b>46.00</b>
629	TBSP-J.I-17	Cleaning the Urinal with acid and Vim power	Each	<b>46.00</b>
630	TBSP-J.I-18	Cleaning the wash basin with acid and Vim powder	Each	<b>46.00</b>
631	TBSP-J.I-19	Cleaning the E.W.C with acid and Vim power	Each	<b>46.00</b>
632	TBSP-J.I-20	Cutting holes in C.C; basement & repairs Labour charges only	Each	<b>107.00</b>
633	TBSP-J.I-21	Cutting holes in stone masonry & basement and repairs Labour charges only	Each	<b>72.00</b>
634	TBSP-J.I-22	Cutting holes in Brick masonry & repairs Labour charges only	Each	<b>47.00</b>
635	TBSP-J.I-23	Cutting holes in RCC slab floor & repairs Labour charges only	Each	<b>72.00</b>
636	TBSP-J.I-24	Supplying & Fixing NP chain rubber and plug for basin	Each	<b>42.00</b>
637	TBSP-J.I-25	S&F 25 mm nominal size dia & 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	<b>164.00</b>
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	<b>142.00</b>
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	<b>209.00</b>
640	TBSP-J.I-28	S&F 609.6 mm long 127 mm wide plate glass shelf only	Each	<b>69.00</b>
641	TBSP-J.I-29	Supplying & fixing 88.9 mm A.C cowls	Each	<b>71.00</b>
642	TBSP-J.I-30	Supplying & fixing A.C Cowl 63.5 mm dia	Each	<b>48.00</b>
643	TBSP-J.I-31	S&F 76.2 x 101.6 mm teak wood block complete	Each	<b>26.00</b>
644	TBSP-J.I-32	Supplying & Fixing 15 mm nominal size PVC connection with brass union nut C.P coated	Each	<b>102.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
645	TBSP-J.I-33	Removing of 101.6 m or 75 mm nominal size CI pipe	1 RM	<b>36.00</b>
646	TBSP-J.I-34	Supplying & fixing 75 mm nominal size W.I clamps	Each	<b>25.00</b>
647	TBSP-J.I-35	Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457.2 mm	Each	<b>513.00</b>
648	TBSP-J.I-36	Supplying & fixing GI pipe plug of size 15 mm nominal size dia	Each	<b>10.00</b>
649	TBSP-J.I-37	Supplying & fixing 20 mm dia GI plug	Each	<b>14.00</b>
650	TBSP-J.I-38	Supplying and fixing 40 mm nominal size dia of GI plug	Each	<b>72.00</b>
651	TBSP-J.I-39	Supplying & fixing 50 mm nominal size dia of GI PLUG	Each	<b>110.00</b>
652	TBSP-J.I-40	Supplying & fixing 75 mm nominal size dia of GI PLUG	Each	<b>200.00</b>
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	<b>157.00</b>
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	<b>195.00</b>
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	<b>244.00</b>
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	<b>328.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>431.00</b>
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	<b>548.00</b>
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	<b>227.00</b>
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	<b>272.00</b>
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	<b>336.00</b>
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	1 RM	<b>443.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
		cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 32 mm OD pipe		
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	<b>575.00</b>
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	<b>726.00</b>
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	<b>185.00</b>
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	<b>220.00</b>
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	<b>267.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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	<b>345.00</b>
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	<b>442.00</b>
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	<b>141.00</b>
671	TBSP-J.III-02	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 13.5	1 RM	<b>160.00</b>
672	TBSP-J.III-03	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 13.5	1 RM	<b>212.00</b>
673	TBSP-J.III-04	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 13.5	1 RM	<b>289.00</b>
674	TBSP-J.III-05	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 13.5	1 RM	<b>360.00</b>
675	TBSP-J.III-06	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 13.5	1 RM	<b>525.00</b>
676	TBSP-J.III-07	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 11	1 RM	<b>156.00</b>
677	TBSP-J.III-08	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 11	1 RM	<b>189.00</b>
678	TBSP-J.III-09	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 11	1 RM	<b>227.00</b>
679	TBSP-J.III-10	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 11	1 RM	<b>310.00</b>
680	TBSP-J.III-11	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 11	1 RM	<b>383.00</b>
681	TBSP-J.III-12	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 11	1 RM	<b>560.00</b>
682	TBSP-J.III-13	Supply of 20mm x 1.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>48.00</b>
683	TBSP-J.III-14	Supply of 25mm x 2.3mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>73.00</b>
684	TBSP-J.III-15	Supply of 32mm x 2.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>115.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
685	TBSP-J.III-16	Supply of 40mm x 3.7mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>180.00</b>
686	TBSP-J.III-17	Supply of 50mm x 4.6mm PN 10/PPR pipe conforming to DIN Standards 8077/8080	1 RM	<b>321.00</b>
687	TBSP-J.III-18	Supply of 63mm x 5.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8081	1 RM	<b>504.00</b>
688	TBSP-J.III-19	Supply of 75mm x 6.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8082	1 RM	<b>702.00</b>
689	TBSP-J.III-20	Supply of 90mm x 8.2mm PN 10/PPR pipe conforming to DIN Standards 8077/8083	1 RM	<b>963.00</b>
690	TBSP-J.III-21	Supply of 110mm x 10mm PN 10/PPR pipe conforming to DIN Standards 8077/8084	1 RM	<b>1,427.00</b>
691	TBSP-J.III-22	Supply of 20mm x 2.8mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>66.00</b>
692	TBSP-J.III-23	Supply of 25mm x 3.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>102.00</b>
693	TBSP-J.III-24	Supply of 32mm x 4.4mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>163.00</b>
694	TBSP-J.III-25	Supply of 40mm x 5.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>251.00</b>
695	TBSP-J.III-26	Supply of 50mm x 6.9mm PN 16/PPR pipe conforming to DIN Standards 8077/8080	1 RM	<b>449.00</b>
696	TBSP-J.III-27	Supply of 63mm x 8.6mm PN 16/PPR pipe conforming to DIN Standards 8077/8081	1 RM	<b>707.00</b>
697	TBSP-J.III-28	Supply of 75mm x 10.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8082	1 RM	<b>999.00</b>
698	TBSP-J.III-29	Supply of 90mm x 12.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8083	1 RM	<b>1,425.00</b>
699	TBSP-J.III-30	Supply of 110mm x 15.1mm PN 16/PPR pipe conforming to DIN Standards 8077/8084	1 RM	<b>2,134.00</b>
700	TBSP-J.III-31	Supply of 20mm x 3.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>77.00</b>
701	TBSP-J.III-32	Supply of 25mm x 4.2mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	<b>118.00</b>
702	TBSP-J.III-33	Supply of 32mm x 5.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>190.00</b>
703	TBSP-J.III-34	Supply of 40mm x 6.7mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	<b>292.00</b>
704	TBSP-J.III-35	Supply of 50mm x 8.3mm PN 20/PPR pipe conforming to DIN Standards 8077/8080	1 RM	<b>519.00</b>
705	TBSP-J.III-36	Supply of 63mm x 10.5mm PN 20/PPR pipe conforming to DIN Standards 8077/8081	1 RM	<b>819.00</b>
706	TBSP-J.III-37	Supply of 75mm x 12.5mm PN 20/PPR pipe conforming to DIN Standards 8077/8082	1 RM	<b>1,162.00</b>
707	TBSP-J.III-38	Supply of 90mm x 15mm PN 20/PPR pipe conforming to DIN Standards 8077/8083	1 RM	<b>1,579.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
708	TBSP-J.III-39	Supply of 110mm x 18.3mm PN 20/PPR pipe conforming to DIN Standards 8077/8084	1 RM	<b>2,487.00</b>
709	TBSP-J.III-40	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	1 RM	<b>11.00</b>
710	TBSP-J.III-41	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	1 RM	<b>15.00</b>
711	TBSP-J.III-42	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	1 RM	<b>21.00</b>
712	TBSP-J.III-43	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	1 RM	<b>36.00</b>
713	TBSP-J.III-44	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	1 RM	<b>70.00</b>
714	TBSP-J.III-45	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	1 RM	<b>134.00</b>
715	TBSP-J.III-46	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	1 RM	<b>204.00</b>
716	TBSP-J.III-47	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	1 RM	<b>391.00</b>
717	TBSP-J.III-48	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	1 RM	<b>696.00</b>
718	TBSP-J.III-49	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	<b>42.00</b>
719	TBSP-J.III-50	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	<b>67.00</b>
720	TBSP-J.III-51	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	<b>87.00</b>
721	TBSP-J.III-52	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	<b>138.00</b>
722	TBSP-J.III-53	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	<b>161.00</b>
723	TBSP-J.III-54	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	<b>411.00</b>
724	TBSP-J.III-55	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	<b>531.00</b>
725	TBSP-J.III-56	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	<b>18.00</b>
726	TBSP-J.III-57	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	<b>22.00</b>
727	TBSP-J.III-58	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	<b>43.00</b>
728	TBSP-J.III-59	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	<b>75.00</b>
729	TBSP-J.III-60	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	<b>140.00</b>
730	TBSP-J.III-61	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	<b>274.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
731	TBSP-J.III-62	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	<b>443.00</b>
732	TBSP-J.III-63	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	<b>824.00</b>
733	TBSP-J.III-64	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	<b>1,530.00</b>
734	TBSP-J.III-65	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	<b>16.00</b>
735	TBSP-J.III-66	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	<b>28.00</b>
736	TBSP-J.III-67	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	<b>51.00</b>
737	TBSP-J.III-68	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	<b>90.00</b>
738	TBSP-J.III-69	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	<b>160.00</b>
739	TBSP-J.III-70	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	<b>325.00</b>
740	TBSP-J.III-71	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	<b>636.00</b>
741	TBSP-J.III-72	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	<b>922.00</b>
742	TBSP-J.III-73	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	<b>1,598.00</b>
743	TBSP-J.III-74	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	<b>7.00</b>
744	TBSP-J.III-75	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	<b>11.00</b>
745	TBSP-J.III-76	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	<b>21.00</b>
746	TBSP-J.III-77	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	<b>36.00</b>
747	TBSP-J.III-78	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	<b>63.00</b>
748	TBSP-J.III-79	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	<b>134.00</b>
749	TBSP-J.III-80	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	<b>225.00</b>
750	TBSP-J.III-81	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	<b>358.00</b>
751	TBSP-J.III-82	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	<b>708.00</b>
752	TBSP-J.III-83	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>13.00</b>
753	TBSP-J.III-84	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>22.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
754	TBSP-J.III-85	Supply of 32mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>21.00</b>
755	TBSP-J.III-86	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>37.00</b>
756	TBSP-J.III-87	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>36.00</b>
757	TBSP-J.III-88	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>35.00</b>
758	TBSP-J.III-89	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>54.00</b>
759	TBSP-J.III-90	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>55.00</b>
760	TBSP-J.III-91	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>56.00</b>
761	TBSP-J.III-92	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>57.00</b>
762	TBSP-J.III-93	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>124.00</b>
763	TBSP-J.III-94	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>124.00</b>
764	TBSP-J.III-95	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>125.00</b>
765	TBSP-J.III-96	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>126.00</b>
766	TBSP-J.III-97	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>127.00</b>
767	TBSP-J.III-98	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>184.00</b>
768	TBSP-J.III-99	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>185.00</b>
769	TBSP-J.III-100	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>235.00</b>
770	TBSP-J.III-101	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>449.00</b>
771	TBSP-J.III-102	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>476.00</b>
772	TBSP-J.III-103	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>600.00</b>
773	TBSP-J.III-104	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>698.00</b>
774	TBSP-J.III-105	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>753.00</b>
775	TBSP-J.III-106	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>35.00</b>
776	TBSP-J.III-107	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>61.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
777	TBSP-J.III-108	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>62.00</b>
778	TBSP-J.III-109	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>101.00</b>
779	TBSP-J.III-110	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>103.00</b>
780	TBSP-J.III-111	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>105.00</b>
781	TBSP-J.III-112	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>146.00</b>
782	TBSP-J.III-113	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>148.00</b>
783	TBSP-J.III-114	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>152.00</b>
784	TBSP-J.III-115	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>153.00</b>
785	TBSP-J.III-116	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>423.00</b>
786	TBSP-J.III-117	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>425.00</b>
787	TBSP-J.III-118	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>431.00</b>
788	TBSP-J.III-119	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>438.00</b>
789	TBSP-J.III-120	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>445.00</b>
790	TBSP-J.III-121	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>598.00</b>
791	TBSP-J.III-122	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>607.00</b>
792	TBSP-J.III-123	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>805.00</b>
793	TBSP-J.III-124	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>855.00</b>
794	TBSP-J.III-125	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>1,459.00</b>
795	TBSP-J.III-126	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>1,517.00</b>
796	TBSP-J.III-127	Supply of 20mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>112.00</b>
797	TBSP-J.III-128	Supply of 25mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>115.00</b>
798	TBSP-J.III-129	Supply of 25mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>201.00</b>
799	TBSP-J.III-130	Supply of 32mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>205.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
800	TBSP-J.III-131	Supply of 32mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>212.00</b>
801	TBSP-J.III-132	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>327.00</b>
802	TBSP-J.III-133	Supply of 40mm x 1¼" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>484.00</b>
803	TBSP-J.III-134	Supply of 50mm x 1½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>676.00</b>
804	TBSP-J.III-135	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>899.00</b>
805	TBSP-J.III-136	Supply of 75mm x 2½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>1,733.00</b>
806	TBSP-J.III-137	Supply of 20mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>174.00</b>
807	TBSP-J.III-138	Supply of 25mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>180.00</b>
808	TBSP-J.III-139	Supply of 25mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>262.00</b>
809	TBSP-J.III-140	Supply of 32mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>274.00</b>
810	TBSP-J.III-141	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>509.00</b>
811	TBSP-J.III-142	Supply of 40mm x 1¼" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>597.00</b>
812	TBSP-J.III-143	Supply of 50mm x 1½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>834.00</b>
813	TBSP-J.III-144	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>1,283.00</b>
814	TBSP-J.III-145	Supply of 75mm x 2½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>2,052.00</b>
815	TBSP-J.III-146	Supply of 20mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>120.00</b>
816	TBSP-J.III-147	Supply of 25mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>125.00</b>
817	TBSP-J.III-148	Supply of 25mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>193.00</b>
818	TBSP-J.III-149	Supply of 32mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>185.00</b>
819	TBSP-J.III-150	Supply of 32mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>216.00</b>
820	TBSP-J.III-151	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>362.00</b>
821	TBSP-J.III-152	Supply of 20mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>180.00</b>
822	TBSP-J.III-153	Supply of 25mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>197.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2015-16</b>
823	TBSP-J.III-154	Supply of 25mm x ¾" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>261.00</b>
824	TBSP-J.III-155	Supply of 32mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>251.00</b>
825	TBSP-J.III-156	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>541.00</b>
826	TBSP-J.III-157	Supply of 20mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>116.00</b>
827	TBSP-J.III-158	Supply of 25mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>127.00</b>
828	TBSP-J.III-159	Supply of 25mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>212.00</b>
829	TBSP-J.III-160	Supply of 32mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>223.00</b>
830	TBSP-J.III-161	Supply of 32mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>251.00</b>
831	TBSP-J.III-162	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>352.00</b>
832	TBSP-J.III-163	Supply of 20mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>181.00</b>
833	TBSP-J.III-164	Supply of 25mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>193.00</b>
834	TBSP-J.III-165	Supply of 25mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>277.00</b>
835	TBSP-J.III-166	Supply of 32mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>283.00</b>
836	TBSP-J.III-167	Supply of 32mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>299.00</b>
837	TBSP-J.III-168	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>552.00</b>
838	TBSP-J.III-169	Supply of 20mm x ½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>466.00</b>
839	TBSP-J.III-170	Supply of 25mm x ¾" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>698.00</b>
840	TBSP-J.III-171	Supply of 32mm x 1" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>932.00</b>
841	TBSP-J.III-172	Supply of 40mm x 1¼" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>1,306.00</b>
842	TBSP-J.III-173	Supply of 50mm x 1½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>2,099.00</b>
843	TBSP-J.III-174	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	<b>3,334.00</b>
844	TBSP-J.III-175	Supply of 20mm x ½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	<b>534.00</b>
845	TBSP-J.III-176	Supply of 25mm x ¾" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	<b>710.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2015-16
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
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	<b>RATES</b> <b>Note: All the prices of the material given in this section are landing costs, including material VAT, loading, cost of conveyance, unloading &amp; stacking at site.</b>
	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.
<b>4</b>	LABOUR charges have been increased based on the Common SoR
<b>5</b>	Coloured porcelain items: 50% extra may be allowed on basic cost of white porcelain items excluding fittings
<b>6</b>	SoR Rates for 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.

	<b>LEGEND</b>
	"TBSP" -A.I-01
	"TBSP" -C.I-22
	"TBSP" -D.III-14
	TBSP - Denotes Plumbing item in the Telangana Buildings SoR
	A.I/ C.IV - Denotes the Section & Sub-section
	01/22 - Denotes the serial number of the item

<b>Sl. No</b>	<b>SECTION</b>	<b>NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER</b>
<b>A</b>	<b>SECTION</b>	<b>S.W.G. PIPES&amp;FITTINGS</b>
		<b>(Landing cost - including material VAT/ loading/ cost of conveyance/ unloading &amp; stacking)</b>
I	SUB-SECTION	SUPPLY & LAYING OF SWG PIPES - Any ISI Brand
II	SUB-SECTION	S.W.G. FITTINGS - Any ISI Brand
<b>C</b>	<b>SECTION</b>	<b>CENTRIFUGAL CI PIPES&amp;FITTINGS - IS : 1729</b>
I	SUB-SECTION	SUPPLY & LAYING OF CAST IRON PIPES - BIC/ NECO
II	SUB-SECTION	SUPPLYING & LAYING OF C.I. FITTINGS - BIC/ NECO
<b>D</b>	<b>SECTION</b>	<b>CENTRIFUGAL CI PIPES&amp;FITTINGS - IS : 3989</b>
I	SUB-SECTION	SUPPLY OF CENTRIFUGAL CI PIPES - BIC/ NECO
II	SUB-SECTION	SUPPLY OF C.I. SPUN FITTINGS - BIC/ NECO
<b>E</b>	<b>SECTION</b>	<b>VITREOUS CHINAWARE - SANITARY APPLIANCES</b>
I	SUB-SECTION	INDIAN WATER CLOSETS - Hindware/ Parryware/ Neycer/ H&R Johnson/ CERA / Jaquar
II	SUB-SECTION	FLOOR MOUNTED EWC - Hindware/ Parryware/ Neycer/ H&R Johnson/CERA / Jaquar
III	SUB-SECTION	WALL MOUNTED EWC - Hindware/ Parryware/ Neycer/ H&R Johnson/CERA / Jaquar
IV	SUB-SECTION	CISTERNS FOR WATER CLOSETS - Hindware/ Parryware/ Neycer/ H&R Johnson/ CERA / Jaquar
V	SUB-SECTION	PLASTIC SEATS FOR WATER CLOSETS - Hindware/ Parryware/ Neycer/ H&R Johnson/ CERA / Jaquar
VI	SUB-SECTION	WASH HAND BASINS - Hindware/ Parryware/ Neycer/ H&R Johnson/ CERA / Jaquar
VII	SUB-SECTION	URINALS - Hindware/ Parryware/ Neycer/ H&R Johnson / CERA / Jaquar
<b>F</b>	<b>SECTION</b>	<b>CP FITTINGS - TAPS/ FAUCETS &amp; ACCESSORIES</b>
I	SUB-SECTION	TAPS&FAUCETS - BIB TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
II	SUB-SECTION	TAPS&FAUCETS - PILLAR TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
III	SUB-SECTION	TAPS&FAUCETS - OTHER TAPS & SPOUTS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
IV	SUB-SECTION	STOP & ANGLE VALVES - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
V	SUB-SECTION	COMBINATION FAUCETS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
VI	SUB-SECTION	SHOWERS & FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
VII	SUB-SECTION	MISCELLANEOUS CP FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson
<b>G</b>	<b>SECTION</b>	<b>G.I. PIPES&amp;FITTINGS</b>
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

## Approved brands Plumbing Items in the Telangana Buildings SoR: 2015-16

<b>Sl. No</b>	<b>SECTION</b>	<b>NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER</b>
<b>H</b>	<b>SECTION</b>	<b>PVC PIPES&amp;FITTINGS</b>
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
<b>J</b>	<b>SECTION</b>	<b>MISCELLANEOUS ITEMS</b>
I	SUB-SECTION	POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES - Kitec/ Kisan
II	SUB-SECTION	CPVC PIPES - Supreme/ Ashirvad/ Astral/ Prince / Kisan
III	SUB-SECTION	PPR PIPES - Supreme/ Ashirvad/ Astral/ Prince/ Kisan

# ELECTRICAL ITEMS

**PREAMBLE TO ELECTRICAL SOR 2015-2016**

1. The area allowances in case of Corporation, Municipalities, Jail Compounds, Agency & Tribal areas and Industrial areas have to be followed as per prevailing Common SOR.
2. The Electrical contractor is solely responsible for both quality and quantity. Proposing specific make in the estimate from the SOR is within the scope of concerned field officers based on the necessity and availability of materials in such areas.
3. In case of 2way points i.e. stair case point etc where two way switch control is necessary, an extra at 50 % excess over each point shall be allowed.
4. Where ever the light/fan point is provided at a height/length of 15 feet and above, then an extra of 50% over the point rates shall be allowed.
5. The rates for common civil items including labour rates have to be adopted from prevailing SOR.
6. The rates for all types of electrical items proposed are inclusive of all taxes such as Sales Tax, Excise duty etc.
7. The Government instructions for usage of Energy efficient luminaries have to be invariably followed while proposing luminaries in the estimates.
8. The rates for items such as Lifts, Refrigerators / A.C. plants / Water coolers and Video and Audio Systems etc., have to be invariably followed based on the prevailing market rates, since the rates and specification varies from manufacturer to manufacturer considerably. The rates for Solar power plant / water heating / water pumps shall be followed as per MNRE guide lines. Hence, rates for these items are not incorporated in the SOR.
9. In case of any addition to the proposed SOR, the approval has to be obtained from the Building SOR Committee of Chief Engineers through the R&B Electrical wing. Temporary approvals which are under relevant specifications of the BIS/ISO/ISI can be given by the Superintending Engineer (R&B) Electrical.
10. The Superintending Engineer (R&B) Electrical will review the performance over the quality of the makes proposed in the SOR from time to time and in case any inferior quality is observed the same shall be brought to the notice of the Chief Engineer (R&B) Electrical to consider for deletion from the SOR.

11. The schedule of rates is only for guidance of officers for preparation of estimates as per the Para 113 of APPWD code. The authority that sanctioned the estimate is however responsible for adopting the proper rates in the estimates as envisaged in para 45 of APPWD code.
12. As per GO Ms No.51 Industries and commerce (MSME) Dept Dt:01.06.2010,All the indenting departments / Agents should invariably give preference to all local MSME which are manufacturing quality products having ISO 9001 - 2000, DGS & D, BIS certification without entertaining any other dealers / branded product manufacturers who have no production base in the state.
13. The government vide GO RT No. 48 Home (Services-IV) department dated: 23.01.2015 have permitted for providing the Aerosol Generator system / DSPA as an alternative in place of water based sprinkler. Hence proposed in the SOR.

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		<b>SECTION - 1</b>			
	<b>1.1</b>	<b>M.S. CONDUIT PIPES</b>			
1	TBSE-1.1.1	Supply of ISI, 20mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB.	1	Mtr	71.30
2	TBSE-1.1.2	Supply of ISI, 25mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB.	1	Mtr	83.20
3	TBSE-1.1.3	Supply of ISI, 32mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB.	1	Mtr	124.70
4	TBSE-1.1.4	Supply of ISI, 38mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB.	1	Mtr	126.00
5	TBSE-1.1.5	Supply of ISI, 50mm dia, 16 guage thickness MS conduit pipe.			
		Makes : NAI / Bharath / GB.	1	Mtr	178.20
6	TBSE-1.1.6	Supply of 19 / 20 mm MS Junction box normal range big size long neck.	1	No	24.00
7	TBSE-1.1.7	Supply of 25 mm MS Junction box normal range big size long neck.	1	No	24.00
8	TBSE-1.1.8	Supply of 32 mm MS Junction box normal range big size long neck.	1	No	63.00
9	TBSE-1.1.9	Supply of 40 / 38 mm MS Junction box normal range big size long neck.	1	No	74.00
10	TBSE-1.1.10	Supply of 50 mm MS Junction box normal range big size long neck.	1	No	133.00
11	TBSE-1.1.11	Supply of 25/20mm.MS Junction deep box.	1	No	39.00
12	TBSE-1.1.12	Supply of 32mm.MS Junction deep box.	1	No	89.00
13	TBSE-1.1.13	Supply of 40mm.MS Junction deep box.	1	No	92.00
14	TBSE-1.1.14	Supply of 19/20mm MS Inspection Bends.	1	No	22.00
15	TBSE-1.1.15	Supply of 25mm MS Inspection Bends.	1	No	22.00
16	TBSE-1.1.16	Supply of 32mm MS Inspection Bends.	1	No	55.00
17	TBSE-1.1.17	Supply of 40/38mm MS Inspection Bends.	1	No	67.00
18	TBSE-1.1.18	Supply of 50mm MS Inspection Bends.	1	No	114.00
19	TBSE-1.1.19	Supply of 19/20mm MS Inspection Tee.	1	No	23.00
20	TBSE-1.1.20	Supply of 25mm MS Inspection Tee.	1	No	24.00
21	TBSE-1.1.21	Supply of 32mm MS Inspection Tee.	1	No	63.00
22	TBSE-1.1.22	Supply of 40/38mm MS Inspection Tee.	1	No	74.00
23	TBSE-1.1.23	Supply of 50mm MS Inspection Tee.	1	No	133.00
24	TBSE-1.1.24	Supply of 19/20mm MS Inspection Elbow.	1	No	21.00
25	TBSE-1.1.25	Supply of 25mm MS Inspection Elbow.	1	No	21.00
26	TBSE-1.1.26	Supply of 32mm MS Inspection Elbow.	1	No	53.00
27	TBSE-1.1.27	Supply of 40/38mm MS Inspection Elbow.	1	No	65.00
28	TBSE-1.1.28	Supply of 50mm MS Inspection Elbow.	1	No	108.00
29	TBSE-1.1.29	Supply of MS Inspection 10 Guage G.I. checknut size 19/20mm.	100	Nos	206.00

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30	TBSE-1.1.30	Supply of MS Inspection 10 Guage G.I. checknut size 25mm.	100	Nos	256.00
31	TBSE-1.1.31	Supply of MS Inspection 10 Guage G.I. checknut size 32mm.	100	Nos	475.00
32	TBSE-1.1.32	Supply of MS Inspection 10 Guage G.I. checknut size 40/38mm.	100	Nos	642.00
33	TBSE-1.1.33	Supply of MS Inspection 10 Guage G.I. checknut size 50mm.	100	Nos	1272.00
34	TBSE-1.1.34	Supply of 19/20mm Saddles with Base.	100	Nos	211.00
35	TBSE-1.1.35	Supply of 25mm Saddles with Base.	100	Nos	220.00
36	TBSE-1.1.36	Supply of 32mm Saddles with Base.	100	Nos	363.00
37	TBSE-1.1.37	Supply of 40/38mm Saddles with Base.	100	Nos	386.00
38	TBSE-1.1.38	Supply of 50mm Saddles with Base.	100	Nos	446.00
39	TBSE-1.1.39	Supply of 19/20mm 20 guage Saddles.	100	Nos	113.00
40	TBSE-1.1.40	Supply of 25mm 20 guage Saddles.	100	Nos	149.00
41	TBSE-1.1.41	Supply of 32mm 20 guage Saddles.	100	Nos	244.00
42	TBSE-1.1.42	Supply of 40/38mm 20 guage Saddles.	100	Nos	308.00
43	TBSE-1.1.43	Supply of 50mm 20 guage Saddles.	100	Nos	375.00
44	TBSE-1.1.44	Supply of 19/20mm 16 Guage socket coupler.	12	Nos	57.00
45	TBSE-1.1.45	Supply of 25mm 16 Guage socket coupler.	12	Nos	72.00
46	TBSE-1.1.46	Supply of 32mm 16 Guage socket coupler.	12	Nos	108.00
47	TBSE-1.1.47	Supply of 38mm 16 Guage socket coupler.	12	Nos	129.00
48	TBSE-1.1.48	Supply of 40mm 16 Guage socket coupler.	12	Nos	172.00
49	TBSE-1.1.49	Supply of 50mm 16 Guage socket coupler.	12	Nos	212.00
50	TBSE-1.1.50	Supply of 19mm Ball Socket.	12	Nos	212.00
51	TBSE-1.1.51	Supply of 25mm Ball Socket.	12	Nos	207.00
	<b>1.2</b>	<b>PVC CONDUIT PIPES</b>			
52	TBSE-1.2.1	Supply of ISI 20mm outer dia medium (1.55mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	19.10
53	TBSE-1.2.2	Supply of ISI 20mm outer dia heavy (2.10mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	24.20
54	TBSE-1.2.3	Supply of ISI 25mm outer dia medium (1.80mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	25.40
55	TBSE-1.2.4	Supply of ISI 25mm outer dia heavy (2.20mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	31.80
56	TBSE-1.2.5	Supply of ISI 32mm outer dia medium (2.10mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	42.50

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
57	TBSE-1.2.6	Supply of ISI 40mm outer dia medium (2.30mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	58.40
58	TBSE-1.2.7	Supply of ISI 50mm outer dia medium (2.85mm thickness) grade, FRLS with IS:9537 part 3 regid PVC pipe.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	Mtr	81.40
59	TBSE-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	TBSE-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	TBSE-1.2.10	Supply of 19/20mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	25.40
62	TBSE-1.2.11	Supply of 25mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	31.80
63	TBSE-1.2.12	Supply of 32mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	36.90
64	TBSE-1.2.13	Supply of 38/40mm width and 12.5mm height Casing and Caping.			
		Makes : Modi with ISI	1	Mtr	63.50
65	TBSE-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	TBSE-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	TBSE-1.2.16	Supply of 20mm PVC Flexible Pipe.	1	Mtr	3.70
68	TBSE-1.2.17	Supply of 25mm PVC Flexible Pipe.	1	Mtr	4.90
69	TBSE-1.2.18	Supply of 32mm PVC Flexible Pipe.	1	Mtr	6.10
70	TBSE-1.2.19	Supply of 40mm PVC Flexible Pipe.	1	Mtr	12.20
71	TBSE-1.2.20	Supply of 50mm PVC Flexible Pipe.	1	Mtr	19.40
72	TBSE-1.2.21	Supply of 19/20mm PVC Flexible Couplings.	1	No	11.00
73	TBSE-1.2.22	Supply of 25mm PVC Flexible Couplings.	1	No	14.00
74	TBSE-1.2.23	Supply of 32mm PVC Flexible Couplings.	1	No	28.00
75	TBSE-1.2.24	Supply of 40/38mm PVC Flexible Couplings.	1	No	30.00
76	TBSE-1.2.25	Supply of 50mm PVC Flexible Couplings.	1	No	61.00
77	TBSE-1.2.26	Supply of 19/20mm PVC Junction Boxes Normal.	1	No	17.00
78	TBSE-1.2.27	Supply of 25mm PVC Junction Boxes Normal.	1	No	19.00
79	TBSE-1.2.28	Supply of 32mm PVC Junction Boxes Normal.	1	No	34.00
80	TBSE-1.2.29	Supply of 40mm PVC Junction Boxes Normal.	1	No	37.00

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81	TBSE-1.2.30	Supply of 50mm PVC Junction Boxes Normal.	1	No	51.00
82	TBSE-1.2.31	Supply of PVC Junction Boxes Deep size 19/20mm.	1	No	22.00
83	TBSE-1.2.32	Supply of PVC Junction Boxes Deep size 25mm.	1	No	25.00
84	TBSE-1.2.33	Supply of PVC Junction Boxes Deep size 32mm.	1	No	40.00
85	TBSE-1.2.34	Supply of PVC Junction Boxes Deep size 40/38mm.	1	No	43.00
86	TBSE-1.2.35	Supply of PVC Junction Boxes Deep size 50mm.	1	No	64.00
87	TBSE-1.2.36	Supply of 19/20mm dia 1.5mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	No	4.00
88	TBSE-1.2.37	Supply of 25mm dia 1.5mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	No	6.00
89	TBSE-1.2.38	Supply of 32mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	No	16.00
90	TBSE-1.2.39	Supply of 40mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	No	19.00
91	TBSE-1.2.40	Supply of 50mm dia 2.0mm thick PVC Bends.			
		Makes : Sudhakar / GM / Modi / AKG / VIP.	1	No	28.00
92	TBSE-1.2.41	Dummy Cover to PVC junction boxes	1	No	4.00
	<b>1.3</b>	<b>HOT DIP GALVANIZED METAL BOXES (MODULAR)</b>			
93	TBSE-1.3.1	Supply of 1 or 2 Module box	1	No	57.00
94	TBSE-1.3.2	Supply of 3 Module box	1	No	80.00
95	TBSE-1.3.3	Supply of 4 Module box	1	No	96.00
96	TBSE-1.3.4	Supply of 6 Module box	1	No	130.00
97	TBSE-1.3.5	Supply of 8 or 9 Module box Horizontal/Vertical.	1	No	170.00
98	TBSE-1.3.6	Supply of 12 Module box	1	No	209.00
		<b>METALLIC BOXES (MS)</b>			
99	TBSE-1.3.7	Supply of 4" x 4" Metal Box	1	No	53.00
100	TBSE-1.3.8	Supply of 4" x 7" Metal Box	1	No	63.00
101	TBSE-1.3.9	Supply of 6" x 6" Metal Box	1	No	79.00
102	TBSE-1.3.10	Supply of 6" x 8" Metal Box	1	No	105.00
103	TBSE-1.3.11	Supply of 10" x 8" Metal Box	1	No	184.00
104	TBSE-1.3.12	Supply of 10" x 12" Metal Box	1	No	236.00
	<b>1.4</b>	<b>T.W. BOARDS</b>			
105	TBSE-1.4.1	Supply of T.W.Deep Box of Size 4" x 4"	1	No	10.00
106	TBSE-1.4.2	Supply of T.W.Deep Box of Size 4" x 7"	1	No	18.00
107	TBSE-1.4.3	Supply of T.W.Deep Box of Size 6" x 6"	1	No	22.00
108	TBSE-1.4.4	Supply of T.W.Deep Box of Size 6" x 8"	1	No	30.00
109	TBSE-1.4.5	Supply of T.W.Deep Box of Size 8" x 10"	1	No	48.00
110	TBSE-1.4.6	Supply of T.W.Deep Box of Size 10" x 12"	1	No	73.00
111	TBSE-1.4.7	Supply of T.W.Deep Box of Size 12" x 15"	1	No	109.00
112	TBSE-1.4.8	Supply of Decolam Board of Size 4" x 4"	1	No	14.00
113	TBSE-1.4.9	Supply of Decolam Board of Size 4" x 7"	1	No	25.00
114	TBSE-1.4.10	Supply of Decolam Board of Size 6" x 6"	1	No	33.00
115	TBSE-1.4.11	Supply of Decolam Board of Size 6" x 8"	1	No	44.00
116	TBSE-1.4.12	Supply of Decolam Board of Size 8" x 10"	1	No	73.00
117	TBSE-1.4.13	Supply of Decolam Board of Size 10" x 12"	1	No	109.00
118	TBSE-1.4.14	Supply of Decolam Board of Size 12" x 15"	1	No	164.00
119	TBSE-1.4.15	Supply of Peeta Board of Size 9" x 14"	1	No	53.00

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120	TBSE-1.4.16	Supply of Peeta Board of Size 12" x 10"	1	No	51.00
121	TBSE-1.4.17	Supply of Peeta Board of Size 15" x 20"	1	No	182.00
122	TBSE-1.4.18	Supply of Peeta Board of Size 18" x 24"	1	No	262.00
123	TBSE-1.4.19	Supply of Peeta Board of Size 18" x 30"	1	No	327.00
124	TBSE-1.4.20	Supply of No.8 Screws of 12mm.	100	Nos	59.00
125	TBSE-1.4.21	Supply of No.8 Screws of 25mm.	100	Nos	72.00
126	TBSE-1.4.22	Supply of No.8 Screws of 30mm.	100	Nos	89.00
127	TBSE-1.4.23	Supply of No.8 Screws of 35/38mm.	100	Nos	96.00
128	TBSE-1.4.24	Supply of No.8 Screws of 50mm.	100	Nos	108.00
129	TBSE-1.4.25	Supply of No.8 Screws of 63/75mm.	100	Nos	131.00
	<b>1.5</b>	<b>COPPER FLEXIBLE CABLES (AS PER IS:694)</b>			
130	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	924.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	797.00
131	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	1358.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	1150.00
132	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	2195.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	1856.00
133	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	3360.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	2783.00

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134	TBSE-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
		Makes : Polycab / HPL / RPG / Kundancab / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	5250.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	4305.00
135	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	7980.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	6825.00
136	TBSE-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 / Anchor / V-Guard / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art.	100	Mtrs	13230.00
		Makes : Gloster / Nandicab / Nakoda / Bentec / Gemini / Khanti.	100	Mtrs	10500.00
		<b>SHEATHED FLEXIBLE COPPER CABLES</b>			
137	TBSE-1.5.8	Supply of PVC insulated 2 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	4190.00
138	TBSE-1.5.9	Supply of PVC insulated 2 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	6683.00
139	TBSE-1.5.10	Supply of PVC insulated 2 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	10274.00
140	TBSE-1.5.11	Supply of PVC insulated 2 core 6.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	15500.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
141	TBSE-1.5.12	Supply of PVC insulated 2 core 10.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	25600.00
142	TBSE-1.5.13	Supply of PVC insulated 3 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	5736.00
143	TBSE-1.5.14	Supply of PVC insulated 3 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	9227.00
144	TBSE-1.5.15	Supply of PVC insulated 3 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	14065.00
145	TBSE-1.5.16	Supply of PVC insulated 4 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	7392.00
146	TBSE-1.5.17	Supply of PVC insulated 4 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	11771.00
147	TBSE-1.5.18	Supply of PVC insulated 4 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	17915.00
148	TBSE-1.5.19	Supply of PVC insulated 4 core 6.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	28250.00
149	TBSE-1.5.20	Supply of PVC insulated 4 core 10.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990.			
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI.	100	Mtrs	45000.00
	<b>1.6</b>	<b>SERVICE MAINS AND FLAT CABLE OF ISI FOR SUBMERSIBLE MOTORS.</b>			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
150	TBSE-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.	100	Mtrs	737.00
151	TBSE-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.	100	Mtrs	1497.00
152	TBSE-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.	100	Mtrs	1611.00
153	TBSE-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.	100	Mtrs	2693.00
154	TBSE-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.	100	Mtrs	3017.00
155	TBSE-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.	100	Mtrs	3629.00
156	TBSE-1.6.7	Supply of 16 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.	100	Mtrs	6804.00
157	TBSE-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.	100	Mtrs	1040.00
158	TBSE-1.6.9	Supply of 3 Core 1.5 Sqmm Flat Copper cable of ISI for Submersible Motors.			
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda.	100	Mtrs	5717.00
159	TBSE-1.6.10	Supply of 3 Core 2.5 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors.			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda.	100	Mtrs	8778.00
160	TBSE-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 / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda.	100	Mtrs	13167.00
161	TBSE-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 / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda.	100	Mtrs	19404.00
162	TBSE-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 / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda.	100	Mtrs	31532.00
	<b>1.7</b>	<b>FLUSH TYPE SWITCHES AND ACCESSORIES</b>			
163	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	15.00
164	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	19.00
165	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	15.00
166	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	20.00
167	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	18.00
168	TBSE-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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Vimal opel / Maru Mantero / Starex Smile / CPL.	1	No	28.00
169	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	18.00
170	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	55.00
171	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	55.00
172	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	85.00
173	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	44.00
174	TBSE-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 opel / Maru Mantero / Starex Smile / CPL.	1	No	180.00
175	TBSE-1.7.13	Supply of 3 Plate Jumbo Ceiling Rose.			
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	21.00
		Makes : Vimal opel / Maru Mantero / Starex Smile / CPL.	1	No	16.00
176	TBSE-1.7.14	Supply of BH / SBH.			
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	20.00
177	TBSE-1.7.15	Supply of Pendent Holder / Adopter.			
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1	No	17.00
178	TBSE-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
179	TBSE-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
180	TBSE-1.7.18	Supply of 15A/10A Flush type Fuse.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1	No	32.00
181	TBSE-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
182	TBSE-1.7.20	Supply of Calling Bell			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	50.00
183	TBSE-1.7.21	Supply of Buzzer.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	45.00
184	TBSE-1.7.22	Supply of Ding Dong Bell.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	102.00
185	TBSE-1.7.23	Supply of Electronic Musical Bell.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	240.00
186	TBSE-1.7.24	Supply of Remote Bell.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	450.00
187	TBSE-1.7.25	Supply of MC Holder.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	21.00
188	TBSE-1.7.26	Supply of Spike Guard with 1 No Switch and 4 Nos Sockets.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	310.00
189	TBSE-1.7.27	Supply of Spike Guard with 4 No Switches and 4 Nos Sockets.			
		Makes : GM / Million / Gold Medal / Maru / Anchor / Great white.	1	No	410.00
	<b>1.8</b>	<b>MINI MODULAR SWITCHES AND ACCESSORIES</b>			
190	TBSE-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.	1	No	23.00
191	TBSE-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.	1	No	26.00
192	TBSE-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.	1	No	24.00
193	TBSE-1.8.4	Supply of 6A 3/2 Pin Mini Modular Socket with Cover Frame.			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	35.00
194	TBSE-1.8.5	Supply of 6A Mini Modular Neon Indicator with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	28.00
195	TBSE-1.8.6	Supply of 6A Mini Modular Bed Switch / Bell Push with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	26.00
196	TBSE-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.	1	No	28.00
197	TBSE-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.	1	No	39.00
198	TBSE-1.8.9	Supply of 16A Mini Modular Switch with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	80.00
199	TBSE-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.	1	No	110.00
200	TBSE-1.8.11	Supply of 16A Triangle Top with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	49.00
201	TBSE-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.	1	No	240.00
202	TBSE-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.	1	No	54.00
203	TBSE-1.8.14	Supply of Mini Modular TV Antenna Outlet with Cover Frame.			
		Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White.	1	No	35.00
204	TBSE-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.	1	No	40.00
	<b>1.9</b>	<b>MODULAR SWITCHES AND ACCESSORIES</b>			
205	TBSE-1.9.1	Supply of 6A / 10A 1 Way 1 Module Modular Switch			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	92.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	63.00
206	TBSE-1.9.2	Supply of 6A / 10A 2 Way 1 Module Modular Switch.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	101.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	75.00
207	TBSE-1.9.3	Supply of 6A / 10A 2 Pin 2 Module Modular Socket.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	93.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	64.00
208	TBSE-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 / MK Blenge.	1	No	141.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	93.00
209	TBSE-1.9.5	Supply of 6A / 10A 1 Module Modular Switch with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	117.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	75.00
210	TBSE-1.9.6	Supply of 6A / 10A Modular Bell Push with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	137.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	90.00
211	TBSE-1.9.7	Supply of 16A / 10A Modular Flush Fuse with Neon Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	126.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	83.00
212	TBSE-1.9.8	Supply of 16A / 20A 1 Way 1 Module Modular Switch.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	126.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	83.00
213	TBSE-1.9.9	Supply of 16A / 20A 2 Way 1 Module Modular Switch.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	138.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	95.00
214	TBSE-1.9.10	Supply of 20A 1 Way 1 Module Modular Switch with Indicator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	138.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	91.00
215	TBSE-1.9.11	Supply of 20A 2 Module Modular Socket with shutter.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	188.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	133.00
216	TBSE-1.9.12	Supply of 16A/6A 1 way 2 Module Combi Socket Modular Socket with shutter.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	196.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	135.00
217	TBSE-1.9.13	Supply of 16A Triangle Top.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	158.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	65.00
218	TBSE-1.9.14	Supply of 1 Module Modular type Electronic step type Fan Regulator.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	473.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	375.00
219	TBSE-1.9.15	Supply of Modular socket type Telephone jack with Connector.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	100.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	65.00
220	TBSE-1.9.16	Supply of Modular co-Axial socket type TV Antenna outlet.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	98.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	64.00
		<b>MODULAR COVER FRAMES</b>			
221	TBSE-1.9.17	Supply of 1 or 2 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	65.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	56.00
222	TBSE-1.9.18	Supply of 3 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	77.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	69.00
223	TBSE-1.9.19	Supply of 4 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	89.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	81.00
224	TBSE-1.9.20	Supply of 6 Modular Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	130.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	108.00
225	TBSE-1.9.21	Supply of 8 Modular Horizontal / Vertical Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	172.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	137.00
226	TBSE-1.9.22	Supply of 12 Modular Vertical Cover Frame.			
		Makes : GM Four-Five / Legrand Arteor / Schneider Zen celo / MK Blenge.	1	No	210.00
		Makes : Legrand Myrius / Cabtree Thames Platinum / Million Logus / Gold Medal Curve / Anchor Roma viola / CPL.	1	No	167.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		<b>SECTION - 2</b>			
	<b>2.1</b>	<b>PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS ( SDFU ) AS PER IS: 13947</b>			
227	TBSE-2.1.1	Supply of 32A TPN Switch Disconnecter Fuse Unit Cubical type without fuses.			
		Makes : L&T / G E / C&S / ABB / SIEMENS	1	No	1351.00
		Makes : Havells / HPL / Indo Asian / Standard.	1	No	1129.00
228	TBSE-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.	1	No	1692.00
229	TBSE-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.	1	No	3827.00
230	TBSE-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.	1	No	5783.00
231	TBSE-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.	1	No	6521.00
232	TBSE-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.	1	No	9960.00
233	TBSE-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.	1	No	16538.00
	<b>2.2</b>	<b>ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION) AS PER IS:13947</b>			
234	TBSE-2.2.1	Supply of 63A 4 Pole Change Over Switch on Load with open Execution			
		Makes : Socomec / L & T	1	No	4135.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	3749.00
235	TBSE-2.2.2	Supply of 125A 4 Pole Change Over Switch on Load with open Execution of makes HPL Socomec / L & T			
		Makes : Socomec / L & T	1	No	7828.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	7283.00
236	TBSE-2.2.3	Supply of 200A 4 Pole Change Over Switch on Load with open Execution of makes HPL Socomec / L & T			
		Makes : Socomec / L & T	1	No	10474.00

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		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	9639.00
237	TBSE-2.2.4	Supply of 250A 4 Pole Change Over Switch on Load with open Execution of makes HPL Socomec / L & T			
		Makes : Socomec / L & T	1	No	14884.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	13709.00
238	TBSE-2.2.5	Supply of 400A 4 Pole Change Over Switch on Load with open Execution of makes HPL Socomec / L & T			
		Makes : Socomec / L & T	1	No	22712.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	21313.00
239	TBSE-2.2.6	Supply of 630A 4 Pole Change Over Switch on Load with open Execution of makes HPL Socomec / L & T			
		Makes : Socomec / L & T	1	No	27012.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S.	1	No	25597.00
240	TBSE-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.	1	No	1438.00
	<b>2.3</b>	<b>OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE AS PER IS:13947</b>			
241	TBSE-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 / Bentec / Gold Medal / Star/ Standard / C&S.	1	No	760.00
242	TBSE-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 / Bentec / Gold Medal / Star/ Standard / C&S.	1	No	2670.00
243	TBSE-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 / Bentec / Gold Medal / Star/ Standard / C&S.	1	No	5019.00
	<b>2.4</b>	<b>REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE AS PER IS:13947</b>			
244	TBSE-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 / Bentec / Star.	1	No	620.00
245	TBSE-2.4.2	Supply of 32A 415V TPN Rewirable Fuse Switch in SS enclosure.			

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		Makes : HPL / Havells / Indo Asian	1	No	1446.00
		Makes : GM / Million / Sputnik / Sigma / Gold Medal / Bentec / Star.	1	No	1033.00
246	TBSE-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 / Bentec / Star.	1	No	2350.00
247	TBSE-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 / Bentec / Star.	1	No	4579.00
248	TBSE-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 / Bentec / Star.	1	No	4730.00
249	TBSE-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 / Bentec / Star.	1	No	7747.00
	<b>2.5</b>	<b>HRC FUSE LINKS (BOLTED TYPE)</b>			
250	TBSE-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
251	TBSE-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
252	TBSE-2.5.3	Supply of 125A to 200A HRC Fuse Links.			
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1	No	248.00
253	TBSE-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
254	TBSE-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
255	TBSE-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
	<b>2.6</b>	<b>PORCELAIN REWIRABLE FUSE UNITS.</b>			
256	TBSE-2.6.1	Supply of 32A 240V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	99.00
257	TBSE-2.6.2	Supply of 32A 415V Porcelain Rewirable Fuse Units.			

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		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	123.00
258	TBSE-2.6.3	Supply of 63A 415V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	259.00
259	TBSE-2.6.4	Supply of 100A 415V Porcelain Rewirable Fuse Units.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	484.00
260	TBSE-2.6.5	Supply of 200A 415V Porcelain Rewirable Fuse Units with extension strip.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	891.00
261	TBSE-2.6.6	Supply of 300A 415V Porcelain Rewirable Fuse Units with extension strip.			
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Bentec.	1	No	1182.00
	<b>2.7</b>	<b>VOLTAGE SURGE PROTECTORS</b>			
262	TBSE-2.7.1	Supply of 2 Pole 2 Module 40 KA 1.4 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E.	1	No	8000.00
263	TBSE-2.7.2	Supply of 4 Pole 4 Module 40 KA 1.4 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E.	1	No	15000.00
264	TBSE-2.7.3	Supply of 2 Pole 2 Module 15 KA 1.2 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E.	1	No	6400.00
265	TBSE-2.7.4	Supply of 4 Pole 4 Module 15 KA 1.2 KV Voltage Surge Protector.			
		Make:Legrand / Siemens / Hager / G E.	1	No	12000.00
	<b>2.8</b>	<b>PANEL MOUNTING MCCBs/ ACBs (Thermal Magnetic Release)</b>			
266	TBSE-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.	1	No	6060.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	4229.00
267	TBSE-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.	1	No	6813.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	5668.00
268	TBSE-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.	1	No	7194.00

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		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	5530.00
269	TBSE-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.	1	No	8700.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	7270.00
270	TBSE-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.	1	No	16025.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	14823.00
271	TBSE-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.	1	No	20818.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	18010.00
272	TBSE-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.	1	No	21690.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	19000.00
273	TBSE-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.	1	No	26208.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1	No	22890.00
		<b>PANEL MOUNTING ACBs (Microprocessor Based)</b>			
274	TBSE-2.8.9	Supply of 630A 3 Pole, 50kA Air Circuit Breaker <b>electrically fixed</b> 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	1	No	94000.00
275	TBSE-2.8.10	Supply of 630A 3 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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	1	No	125813.00

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276	TBSE-2.8.11	Supply of 630A 4 Pole, 50kA Air Circuit Breaker <b>electrically fixed</b> 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	1	No	116857.00
277	TBSE-2.8.12	Supply of 630A 4 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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	1	No	155832.00
278	TBSE-2.8.13	Supply of 800A 3 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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	1	No	132548.00
279	TBSE-2.8.14	Supply of 800A 4 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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	1	No	164470.00
280	TBSE-2.8.15	Supply of 1000A 3 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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
281	TBSE-2.8.16	Supply of 1000A 4 Pole, 50kA Air Circuit Breaker <b>electrically drawout</b> 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
282	TBSE-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

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283	TBSE-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
284	TBSE-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
285	TBSE-2.8.20	Supply and Fixing of 800 Amps Horizontal / Vertical bends.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	34800.00
286	TBSE-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
287	TBSE-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
288	TBSE-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.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	Mtr	10413.00
289	TBSE-2.8.24	Supply and Fixing of 400 Amps Horizontal / Vertical bends.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	32750.00
290	TBSE-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
291	TBSE-2.8.26	Supply and Fixing of 400 Amps Tap off box.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	44550.00
292	TBSE-2.8.27	Supply and Fixing of 250 Amps Tap off box.			
		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	41600.00
293	TBSE-2.8.28	Supply and Fixing of 250 Amps TPN 36KA DPX250-ER MCCB for tap off boxes for power supply.			

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		Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1	No	16573.00
	<b>2.9</b>	<b>MCBs (AS PER IS:60898-1:2002)</b>			
294	TBSE-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.	1	No	162.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	121.00
295	TBSE-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.	1	No	356.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	221.00
296	TBSE-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.	1	No	512.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	335.00
297	TBSE-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.	1	No	701.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	501.00
298	TBSE-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.	1	No	818.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	612.00
299	TBSE-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.	1	No	1134.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	945.00
300	TBSE-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.	1	No	1062.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	787.00
301	TBSE-2.9.8	Supply of 40-63A FP MCB, C/D Curve ISI Mark.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	1899.00

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		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S.	1	No	1424.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	1112.00
	<b>2.10</b>	<b>ISOLATORS CONFIRMS TO I E C 60947 PART-III</b>			
302	TBSE-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.	1	No	318.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	215.00
303	TBSE-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.	1	No	334.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	258.00
304	TBSE-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.	1	No	411.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	345.00
305	TBSE-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.	1	No	585.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	383.00
306	TBSE-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.	1	No	590.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	428.00
307	TBSE-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.	1	No	678.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	572.00
308	TBSE-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.	1	No	734.00
309	TBSE-2.10.8	Supply of 100A FP Isolator .			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	956.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S.	1	No	918.00
	<b>2.11</b>	<b>RCCBs CONFIRMS TO IEC:61008 AND IS:12640</b>			
310	TBSE-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.	1	No	2152.00
311	TBSE-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.	1	No	2118.00
312	TBSE-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.	1	No	2647.00
313	TBSE-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.	1	No	2558.00
314	TBSE-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.	1	No	2902.00
315	TBSE-2.11.6	Supply of 63A 2 Pole RCCB 100mA.			
		Makes : Legrand-DX3 / Schneider-Acti9.	1	No	3330.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S.	1	No	2780.00
316	TBSE-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.	1	No	3019.00
317	TBSE-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.	1	No	2947.00
318	TBSE-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
	<b>2.12</b>	<b>MCB DISTRIBUTION BOARDS (AS PER IS:13032)</b>			
		<b>SPN DB</b>			
319	TBSE-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.	1	No	463.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	328.00
320	TBSE-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.	1	No	800.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	551.00
321	TBSE-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.			
		Makes : Legrand / Schneider.	1	No	880.00
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S.	1	No	606.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	446.00
322	TBSE-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.	1	No	1130.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	756.00
323	TBSE-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.	1	No	695.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	547.00
324	TBSE-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.	1	No	1350.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	957.00
		<b>TPN DB</b>			
325	TBSE-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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S.	1	No	1395.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	1275.00
326	TBSE-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.	1	No	2200.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	1650.00
327	TBSE-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.	1	No	5600.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	3240.00
328	TBSE-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
329	TBSE-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.	1	No	3500.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	2530.00
330	TBSE-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.	1	No	6825.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	5170.00
331	TBSE-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
332	TBSE-2.12.14	Supply of 20A SP Plug and Socket with SS enclosure.			
		Makes : Legrand / Schneider.	1	No	901.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Siemens / GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S.	1	No	590.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	450.00
333	TBSE-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.	1	No	1200.00
	x	Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	925.00
334	TBSE-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.	1	No	1500.00
	x	Makes : Gold Medal / Kundancab / Milltec / Sputnik / Bentec.	1	No	1300.00
335	TBSE-2.12.17	Supply of SP Enclosure with IP 20 Protection.	1	No	250.00
336	TBSE-2.12.18	Supply of DP/TP/FP Metal Enclosure with IP 20 Protection.	1	No	366.00
		<b>SECTION - 3</b>			
	<b>3.1</b>	<b>STREET LIGHT LUMINAIRES</b>			
337	TBSE-3.1.1	Supply of 1 x 36/40 W fluorescent street light luminaire with sheet aluminium 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
338	TBSE-3.1.2	Supply of 70W SV / MH Street light luminaire integral with pressure diecast aluminium housing having pot optics with IP66 protection with all standard accessories etc			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	3265.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	2570.00
339	TBSE-3.1.3	Supply of 150W SV / MH Street light luminaire integral with pressure diecast aluminium housing having pot optics with IP66 protection with all standard accessories etc			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	4790.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	3975.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
340	TBSE-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.	1	No	5500.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Pro-Lite.	1	No	4340.00
341	TBSE-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
342	TBSE-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
343	TBSE-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
344	TBSE-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
345	TBSE-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
	<b>3.2</b>	<b>POST TOP LANTERN LUMINAIRES</b>			
346	TBSE-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
347	TBSE-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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Wipro / Phillips / Bajaj / Crompton / Surya.	1	No	3822.00
		<b>ACCESSORIES FOR MV / SV / MH LUMINAIRES</b>			
	<b>3.3</b>	<b>COPPER BALLASTS</b>			
348	TBSE-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
349	TBSE-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
350	TBSE-3.3.3	Supply of 70 W SV / MH copper ballast			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	643.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	615.00
351	TBSE-3.3.4	Supply of 150 W SV / MH copper ballast.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	1005.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	902.00
352	TBSE-3.3.5	Supply of 250 W SV / MH copper ballast			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	1428.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	1223.00
353	TBSE-3.3.6	Supply of 400 W SV / MH copper ballast.			
		Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture / Halonix.	1	No	2089.00
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro.	1	No	1696.00
354	TBSE-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
355	TBSE-3.3.8	Supply of 4 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	95.00
356	TBSE-3.3.9	Supply of 10 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	160.00
357	TBSE-3.3.10	Supply of 15 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	190.00
358	TBSE-3.3.11	Supply of 20 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	260.00

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359	TBSE-3.3.12	Supply of 33 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	415.00
360	TBSE-3.3.13	Supply of 42 mfd HPF Capacitor.			
		Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1	No	460.00
		<b>ENEGRY SAVING ELECTRONIC BALLAST FOR STREET LIGHT</b>			
361	TBSE-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
362	TBSE-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
363	TBSE-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
	<b>3.4</b>	<b>LAMPS</b>			
364	TBSE-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
365	TBSE-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
366	TBSE-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
367	TBSE-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
368	TBSE-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
369	TBSE-3.4.6	Supply of 400W SV Lamp with ISI mark.			
		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
370	TBSE-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
371	TBSE-3.4.8	Supply of 150W double end MH Lamp with ISI mark.			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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
372	TBSE-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
373	TBSE-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
374	TBSE-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
375	TBSE-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
	<b>3.5</b>	<b>AUTOMATIC STREET LIGHT CONTROL SYSTEMS</b>			
376	TBSE-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
377	TBSE-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
378	TBSE-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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
379	TBSE-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
380	TBSE-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
381	TBSE-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
	<b>3.6</b>	<b>INTERNAL LUMINAIRES</b>			
382	TBSE-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
383	TBSE-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
384	TBSE-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
385	TBSE-3.6.4	Supply of 2 x 36/40W Surface / Recessed mounting mirror optic luminaire with powder coated CRCA sheet steel housing with alluminium mirror reflector and decorative end plates with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	2300.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
386	TBSE-3.6.5	Supply of 2 x 36W CFL Paralite louvre (P5) Surface / Recessed low glare Mirror Optic luminaire comprising bright anodised alluminium reflector with Electronic Ballst.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	3400.00
387	TBSE-3.6.6	Supply of 2 x 36W CFL Direct / Indirect Recessed low glare Mirror Optic luminaire comprising bright anodised alluminium reflector with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	3749.00
388	TBSE-3.6.7	Supply of 1 x 18W CFL Indoor recessed mounting horizontal type down lights luminaire with alluminium/Matt finished reflector with Electronic Ballast.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	750.00
389	TBSE-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
390	TBSE-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
391	TBSE-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
392	TBSE-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
393	TBSE-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
394	TBSE-3.6.13	Supply of 40W Starter of makes Phillips / Crompton / Bajaj / Surya.			
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1	No	11.00

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		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1	No	8.00
395	TBSE-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
396	TBSE-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
397	TBSE-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
398	TBSE-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
399	TBSE-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
400	TBSE-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
401	TBSE-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
402	TBSE-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
403	TBSE-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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
404	TBSE-3.6.23	Supply of 1 x 28W surface pendent mounting T5 Luminaire plastic housing with integrated reflector extruded alluminium luminaire with Electronic Ballast and all standard accessories.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells.	1	No	540.00
405	TBSE-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
406	TBSE-3.6.25	Supply of single fancy bracket with glass shade best Indian make	1	No	215.00
407	TBSE-3.6.26	Supply of double fancy bracket with glass shade best Indian make	1	No	385.00
	<b>3.7</b>	<b>FLOURSCENT TUBES / CFL LAMPS</b>			
408	TBSE-3.7.1	Supply of 40W-60W Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1	No	12.00
409	TBSE-3.7.2	Supply of Night Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1	No	11.00
410	TBSE-3.7.3	Supply of 18/20W fluorescent tube.			
		Makes : Phillips / Crompton / Bajaj / Surya.	1	No	41.00
411	TBSE-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
412	TBSE-3.7.5	Supply of 28W T5 fluorescent tube.			
		Makes : Crompton / Bajaj / Phillips / Surya / Havells.	1	No	120.00
413	TBSE-3.7.6	Supply of 9W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	75.00
414	TBSE-3.7.7	Supply of 11W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	80.00
415	TBSE-3.7.8	Supply of 13W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	105.00
416	TBSE-3.7.9	Supply of 18W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	115.00
417	TBSE-3.7.10	Supply of 26W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	160.00
418	TBSE-3.7.11	Supply of 36W Pin type CFL Lamp.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	135.00
419	TBSE-3.7.12	Supply of up to 5W Retrofit tiny CFL.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	115.00
420	TBSE-3.7.13	Supply of up to 8W Retrofit tiny CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	125.00
421	TBSE-3.7.14	Supply of up to 10/11W Retrofit tiny CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	135.00
422	TBSE-3.7.15	Supply of up to 13/14W Retrofit tiny CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	110.00
423	TBSE-3.7.16	Supply of 15W Retrofit tiny CFL .			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	180.00
424	TBSE-3.7.17	Supply of up to 18/20W Retrofit CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	170.00
425	TBSE-3.7.18	Supply of 23W Retrofit CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	200.00
426	TBSE-3.7.19	Supply of up to 25/26W Retrofit CFL.			
		Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1	No	200.00
	<b>3.8</b>	<b>ENERGY CONSERVING FIXTURES</b>			
427	TBSE-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
428	TBSE-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
	<b>3.9</b>	<b>LED LUMINAIRES INDOOR</b>			
429	TBSE-3.9.1	Supply and Transportation of 6W LED down lighter Recessed mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 with high power LED's having efficacy of > 120 lumens/watt etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	1600.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1300.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	1150.00
430	TBSE-3.9.2	Supply and Transportation of 9W LED down lighter Recessed mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 with high power LED's having efficacy of > 120 lumens/watt etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	2200.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1700.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	1350.00
431	TBSE-3.9.3	Supply and Transportation of 12W LED down lighter Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 with high power LED's having efficacy of > 120 lumens/watt etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	2800.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	2300.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	1900.00
432	TBSE-3.9.4	Supply and Transportation of 18W LED down lighter Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 high power 6 Nos of 1 W LED 1 watt having efficacy of > 120 lumens/watt etc., complete with 3 years warranty. a) Luminaire Make : Phillips / GE / Crompton / VIN / Bajaj / Havells b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	3400.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	2600.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/	1	No	2100.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		JSTC Solar			
433	TBSE-3.9.5	Supply and Transportation of 12W slim LED panel, Round / Square, Recessed mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 with LED's having efficacy of > 90 lumens/watt etc., complete with 2 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	1400.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1260.00
		Luminaire Make : Avni / Stanjo / Cosmo / VRILISO/ JSTC Solar	1	No	1150.00
434	TBSE-3.9.6	Supply and Transportation of 18W slim LED panel, Round / Square, Recessed mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 with LED's having efficacy of > 90 lumens/watt etc., complete with 2 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	2200.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1950.00
		Luminaire Make : Avni / Stanjo / Cosmo / VRILISO/ JSTC Solar	1	No	1780.00
435	TBSE-3.9.7	Supply and transportation of 20W, 2000 lumens, 1200mm length LED retrofit T8 tube light, input voltage AC 165 - 260 Volts with >0.9 PF with inbuilt driver and frosted cover etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	1935.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1570.00
		Makes:Avni / Stanjo / Cosmo / VRILISO/ JSTC Solar	1	No	1450.00
436	TBSE-3.9.8	Supply and transportation of 18W / 20W, 1700 lumens, 1200mm length, T5 LED tube light fitting with extruded aluminium housing, input voltage AC 165 - 260 Volts with >0.9 PF with driver and frosted cover etc., complete with 3 years warranty.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	1750.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	1450.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	1300.00
437	TBSE-3.9.9	Supply and Transportation of 36W slim LED panel of 600mm x 600mm made of alluminium body 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 > 120 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	6300.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Greenlites / Kashyap BLU/ R-LED.	1	No	5600.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	5200.00
438	TBSE-3.9.10	Supply and Transportation of 45W slim LED panel of 600mm x 600mm made of alluminium body 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 > 120 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	6800.00
		Luminaire Makes : Pharox / Surya / Fortune Art / Syska / Greenlites.	1	No	6300.00
439	TBSE-3.9.11	Supply and Transportation of 36W Recessed / Surface mounting 2' x 2' 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 > 120 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 12% etc., complete with 3 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		"Luminaire Make : Phillips / Osram / GE / Crompton / VIN / Bajaj / Havells / Halonix.	1	No	6100.00
		Luminaire Make : Pharox / Surya / Syska / Fortune Art / Capart / Greenlites / Kashyap BLU/ R-LED.	1	No	5200.00
		Luminaire Make : Trinic / Avni / Kripa Lights / Stanjo / Cosmo / VRILISO / Pro-Lite / Goldwyn / Scintilla/ JSTC Solar	1	No	4900.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
440	TBSE-3.9.12	Supply and transportation of MS frame with powder coating suitable for 600mm x 600mm LED panel light.			475.00
441	TBSE-3.9.13	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/ JSTC Solar	1	No	70.00
442	TBSE-3.9.14	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/ JSTC Solar	1	No	175.00
443	TBSE-3.9.15	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/ JSTC Solar	1	No	250.00
444	TBSE-3.9.16	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
445	TBSE-3.9.17	Supply of LED Candel Lamp for shandliers.			
		Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites/ JSTC Solar	1	No	250.00
		<b>LED STREET LIGHTS</b>			
		Supply and transportation of ..... LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having toughened glass cover input voltage range of 165 to 260 volts AC, power factor > 0.90, high power LED's having efficacy 120 lumens/watt and junction temperature < 85 degree centegrade of IP 65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency >90%, surge protection not less than 4 KV etc., complete with 5 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		Luminaire Make : PHILIPS (GREEN LINE) / OSRAM / SCHREDER (BRIKA) / GE / VIN (STO) / CROMPTON (LEXUS+) / BAJAJ (EDGE+) / HALONIX (LUMOS - SUPER) / JSTC Solar			

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446	TBSE-3.9.18	20W	1	No	7100.00
447	TBSE-3.9.19	30W	1	No	10800.00
448	TBSE-3.9.20	45W	1	No	12000.00
		Supply and transportation of ..... LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having toughened glass cover input voltage range of 165 to 260 volts AC, power factor > 0.90, high power LED's having efficacy 120 lumines/watt and junction temperature < 85 degree centegrade of IP 65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency >90% surge protection not less than 4 KV etc., complete with 5 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		Luminaire Make : PHILIPS (ROAD STAR) / OSRAM / SCHREDER (VOLTANA / TECEO) / GE / VIN (PTX / MATRIX) / CROMPTON (OLYMPUS+) / BAJAJ (EDGE+) / HALONIX (MODULAR / LUMOS-SUPER) / JSTC Solar			
449	TBSE-3.9.21	60W	1	No	15000.00
450	TBSE-3.9.22	90W	1	No	21000.00
451	TBSE-3.9.23	120W	1	No	26500.00
452	TBSE-3.9.24	180W	1	No	31850.00
453	TBSE-3.9.25	210W	1	No	35750.00
		Supply and transportation of ..... LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having toughened glass cover input voltage range of 165 to 260 volts AC, power factor > 0.90, high power LED's having efficacy 120 lumines/watt and junction temperature < 85 degree centegrade of IP 65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency >90% surge protection not less than 4 KV etc., complete with 5 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		Luminaire Make : AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / / SYSKA / FORTUNE ART / CAPART / GREENLITES/ R-LED / JSTC Solar			
454	TBSE-3.9.26	20W	1	No	5760.00
455	TBSE-3.9.27	30W	1	No	7560.00
456	TBSE-3.9.28	45W	1	No	9500.00
457	TBSE-3.9.29	60W	1	No	12000.00
458	TBSE-3.9.30	90W	1	No	16500.00
		<b>Luminaire Make : PHAROX / STANJO / COSMO / TRINIC / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA/ JSTC Solar</b>			
459	TBSE-3.9.31	<b>20W</b>	<b>1</b>	<b>No</b>	<b>5200.00</b>
460	TBSE-3.9.32	<b>30W</b>	<b>1</b>	<b>No</b>	<b>6800.00</b>
461	TBSE-3.9.33	<b>45W</b>	<b>1</b>	<b>No</b>	<b>8600.00</b>
462	TBSE-3.9.34	<b>60W</b>	<b>1</b>	<b>No</b>	<b>10800.00</b>

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
463	TBSE-3.9.35	<b>90W</b>	<b>1</b>	<b>No</b>	<b>14850.00</b>
		<b>LED FLOOD LIGHTS</b>			
		Supply and transportation of ..... LED Flood light Luminaire made of pressure diecast aluminium body with powder coated, having toughened glass cover input voltage range of 165 to 200 volts AC, power factor > 0.90, high power LED's having efficacy 120 lumines/watt and junction temperature < 85 degree centgrade of IP 65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency >90% etc., complete with 5 years warranty with PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.			
		Luminaire Make : PHILIPS / GE / VIN / CROMPTON / BAJAJ / HALONIX / JSTC Solar			
464	TBSE-3.9.36	60W	1	No	12500.00
465	TBSE-3.9.37	90W	1	No	17500.00
466	TBSE-3.9.38	120W	1	No	23500.00
		<b>Luminaire Make : PHAROX / AVNI / GOLDWYN / SURYA / KRIPA LIGHTS / FORTUNE ART / CAPART / SYSKA / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA/ JSTC Solar</b>			
467	TBSE-3.9.39	<b>60W</b>	<b>1</b>	<b>No</b>	<b>10500.00</b>
468	TBSE-3.9.40	<b>90W</b>	<b>1</b>	<b>No</b>	<b>15500.00</b>
469	TBSE-3.9.41	<b>120W</b>	<b>1</b>	<b>No</b>	<b>19500.00</b>
		<b>LED DRIVERS</b>			
470	TBSE-3.9.42	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.	1	No	250.00
471	TBSE-3.9.43	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.	1	No	375.00
472	TBSE-3.9.44	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.	1	No	580.00
473	TBSE-3.9.45	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.	1	No	700.00
474	TBSE-3.9.46	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.	1	No	420.00
475	TBSE-3.9.47	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.	1	No	890.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
476	TBSE-3.9.48	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.	1	No	1700.00
	3.10	<b>INDUCTION LUMINARIES</b>			
		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.			
477	TBSE-3.10.1	80W	1	No	15800.00
478	TBSE-3.10.2	120W	1	No	17900.00
		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.			
479	TBSE-3.10.3	150W	1	No	20500.00
480	TBSE-3.10.4	200W	1	No	22000.00
		<b>BALLASTS FOR INDUCTION LAMPS</b>			
481	TBSE-3.10.5	Supply of 80W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	4400.00
482	TBSE-3.10.6	Supply of 120W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	5200.00
483	TBSE-3.10.7	Supply of 150W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	5800.00
484	TBSE-3.10.8	Supply of 200W ballasts for Induction Lamp.			
		Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1	No	6400.00
		<b>SECTION - 4</b>			
	<b>4.1</b>	<b>U.G. CABLES</b>			
485	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	92.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	78.00
486	TBSE-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).			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	108.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	93.00
487	TBSE-4.1.3	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	129.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	112.00
488	TBSE-4.1.4	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).	1	Mtr	130.00
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	130.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	112.00
489	TBSE-4.1.5	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	147.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	128.00
490	TBSE-4.1.6	Supply of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	162.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	140.00
491	TBSE-4.1.7	Supply of 25 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	207.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	180.00
492	TBSE-4.1.8	Supply of 35 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I).			
		Makes : Torrent / Universal / Polycab / Havells / Unicab.	1	Mtr	247.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	212.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
493	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	326.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	280.00
494	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	421.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	363.00
495	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	547.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	472.00
496	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	669.00
		Makes : KEI / RPG / Finolex / Paragon / V-Guard / Fortune Art / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	579.00
497	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	762.00
		Makes : KEI / RPG / Finolex / V-Guard / Gloster / Suncab / Finecab / Gemscab.	1	Mtr	658.00
498	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	934.00
		Makes : KEI / RPG / V-Guard.	1	Mtr	806.00
499	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	1185.00
		Makes : KEI / RPG / V-Guard.	1	Mtr	1023.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
500	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	1449.00
		Makes : KEI / RPG / V-Guard.	1	Mtr	1251.00
501	TBSE-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 / Polycab / Havells / Unicab.	1	Mtr	1815.00
		Makes : KEI / RPG / V-Guard.	1	Mtr	1568.00
		<b>11 KV H.T. XLPE CABLES</b>			
502	TBSE-4.1.18	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	603.00
503	TBSE-4.1.19	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	683.00
504	TBSE-4.1.20	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	816.00
505	TBSE-4.1.21	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	972.00
506	TBSE-4.1.22	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	1104.00
507	TBSE-4.1.23	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	1248.00
508	TBSE-4.1.24	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 / Polycab / Havells / KEI / RPG / Unicab.	1	No	1475.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
	<b>4.2</b>	<b>CABLE GLANDS</b>			
509	TBSE-4.2.1	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 185Sqmm with brass washers complete.	1	No	327.00
510	TBSE-4.2.2	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 240Sqmm with brass washers complete.	1	No	491.00
511	TBSE-4.2.3	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 300Sqmm with brass washers complete.	1	No	578.00
512	TBSE-4.2.4	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 400Sqmm with brass washers complete.	1	No	654.00
513	TBSE-4.2.5	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
514	TBSE-4.2.6	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
515	TBSE-4.2.7	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
	<b>4.3</b>	<b>LUGS</b>			
516	TBSE-4.3.1	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
517	TBSE-4.3.2	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
518	TBSE-4.3.3	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
519	TBSE-4.3.4	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
520	TBSE-4.3.5	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
521	TBSE-4.3.6	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
522	TBSE-4.3.7	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
523	TBSE-4.3.8	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
524	TBSE-4.3.9	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
525	TBSE-4.3.10	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
526	TBSE-4.3.11	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
527	TBSE-4.3.12	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
528	TBSE-4.3.13	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
529	TBSE-4.3.14	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
530	TBSE-4.3.15	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
531	TBSE-4.3.16	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
532	TBSE-4.3.17	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
533	TBSE-4.3.18	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
534	TBSE-4.3.19	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
535	TBSE-4.3.20	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
536	TBSE-4.3.21	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
537	TBSE-4.3.22	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
538	TBSE-4.3.23	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
539	TBSE-4.3.24	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
	<b>4.4</b>	<b>HEAT SHRINKABLE LT CABLE JOINTS</b>			
540	TBSE-4.4.1	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
541	TBSE-4.4.2	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
542	TBSE-4.4.3	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
543	TBSE-4.4.4	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
544	TBSE-4.4.5	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
		<b>3 CORE 11 KV HT CABLE STRAIGHT THROUGH JOINTS</b>			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
545	TBSE-4.4.6	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
546	TBSE-4.4.7	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
547	TBSE-4.4.8	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
		<b>HT END TERMINATION KITS</b>			
548	TBSE-4.4.9	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
549	TBSE-4.4.10	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with necessary materials etc., complete.			
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1	No	8321.00
550	TBSE-4.4.11	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
551	TBSE-4.4.12	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
552	TBSE-4.4.13	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
553	TBSE-4.4.14	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
	<b>4.5</b>	<b>DOUBLE WALLED CORRUGATED HDPE PIPE</b>			
554	TBSE-4.5.1	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	97.00
555	TBSE-4.5.2	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	124.00
556	TBSE-4.5.3	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	152.00
557	TBSE-4.5.4	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	163.00
558	TBSE-4.5.5	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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	254.00
559	TBSE-4.5.6	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	376.00
560	TBSE-4.5.7	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	494.00
561	TBSE-4.5.8	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.			
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1	Mtr	576.00
	<b>4.6</b>	<b>CABLE TRAYS</b>			
562	TBSE-4.6.1	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
563	TBSE-4.6.2	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
564	TBSE-4.6.3	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
565	TBSE-4.6.4	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
566	TBSE-4.6.5	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		SS RATE FOR 2015-16
567	TBSE-4.6.6	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
568	TBSE-4.6.7	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
569	TBSE-4.6.8	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.			
		<b>SECTION - 5</b>			
	<b>5.1</b>	<b>FANS</b>			
570	TBSE-5.1.1	Supply of 48" (1200mm) Sweep <b>ISI mark</b> Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator.			
		Makes : Crompton / Bajaj Kassels 50 / Usha atom	1	No	1600.00
571	TBSE-5.1.2	Supply of 48" (1200mm) Sweep <b>5 Star rated</b> Ceiling Fan without Regulator.			
		Makes : Crompton High Speed Decora / Bajaj Regal star / Havells Fusion 50 / Orient Summer Crown / Usha technix decorative	1	No	2020.00
572	TBSE-5.1.3	Supply of 56" (1400mm) Sweep <b>ISI mark</b> Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator.			
		Makes : Crompton / Bajaj Kassels 50 / Usha atom	1	No	1675.00
573	TBSE-5.1.4	Supply of 56" (1400mm) Sweep <b>4/5 Star rated</b> Ceiling Fan without Regulator.			
		Makes : Crompton / Bajaj Elegance Star / Usha / Havells.	1	No	2160.00
574	TBSE-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
575	TBSE-5.1.6	Supply of 16" (400mm) Pedestal Fan.			
		Makes : Crompton SDX Gold / Bajaj Spectrum / Havells Swing Remote / Usha / Orient.	1	No	2714.00
576	TBSE-5.1.7	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators			
		Makes : Crompton / Havells Turbo Force / Orient / Almounard.	1	No	6000.00
577	TBSE-5.1.8	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes : Crompton / Havells Turbo Force / Almounard.	1	No	6600.00
578	TBSE-5.1.9	Supply of 12" (300mm) Cabin fan.			
		Makes : Crompton / Havells ciera / Orient AP12.	1	No	1550.00
579	TBSE-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
580	TBSE-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
581	TBSE-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
582	TBSE-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
583	TBSE-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
	<b>5.2</b>	<b>WATER HEATERS</b>			
584	TBSE-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 <b>15 Ltrs capacity</b> 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 / Usha.	1	No	9300.00
585	TBSE-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 <b>25 Ltrs capacity</b> 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:makes Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / Usha.	1	No	10900.00
	<b>5.3</b>	<b>ACCESSORIES FOR WATER HEATERS</b>			
586	TBSE-5.3.1	Heating element of 1.5 / 2.0 / 3.0 KW.	1	No	400.00
587	TBSE-5.3.2	Supply of thermostat with range 30 <sup>o</sup> to 90 <sup>o</sup> C.Adjustable and suitable for 25 to 50 Ltrs. Capacity.	1	No	275.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
588	TBSE-5.3.3	Supply of pressure release valve for water heater of 15 to 50 Ltrs.capacity.	1	No	275.00
589	TBSE-5.3.4	Flexible Nylon / PVC Metallic hose pipe	1	No	165.00
	<b>5.4</b>	<b>STARTERS FOR MOTORS</b>			
590	TBSE-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.	1	No	780.00
591	TBSE-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.	1	No	1450.00
592	TBSE-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.	1	No	2490.00
		<b>SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS</b>			
593	TBSE-5.4.5	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.	1	No	14700.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>14000.00</b>
594	TBSE-5.4.6	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.	1	No	16800.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>16000.00</b>
595	TBSE-5.4.7	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.	1	No	17325.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>16500.00</b>
596	TBSE-5.4.8	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.	1	No	21000.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>20000.00</b>

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
597	TBSE-5.4.9	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.	1	No	25200.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>24000.00</b>
		<b>THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.</b>			
598	TBSE-5.4.10	Supply and Transportation of 3.00HP 20-23 Stage Three phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	23625.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>22500.00</b>
599	TBSE-5.4.11	Supply and Transportation of 3.00HP 30-33 Stage Three phase ISI submersible motor pumpset suitable for 4" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	28350.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>27000.00</b>
600	TBSE-5.4.12	Supply and Transportation of 5.00HP 30-35 Stage Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	30975.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>29500.00</b>
601	TBSE-5.4.13	Supply and Transportation of 5.00HP 40 Stage Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	34125.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>32500.00</b>
602	TBSE-5.4.14	Supply and Transportation of 5.00HP 50 Stage Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	37800.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>36000.00</b>

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603	TBSE-5.4.15	Supply and Transportation of 5.00HP 8-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	40500.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>37500.00</b>
604	TBSE-5.4.16	Supply and Transportation of 5.00HP 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	44500.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>42000.00</b>
605	TBSE-5.4.17	Supply and Transportation of 7.50HP 5 Star rated, 5-12 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	49000.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>46000.00</b>
606	TBSE-5.4.18	Supply and Transportation of 7.50HP 5 Star rated, 16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	52500.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>49500.00</b>
607	TBSE-5.4.19	Supply and Transportation of 10.00HP 5 Star rated 10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	52000.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>49000.00</b>
608	TBSE-5.4.20	Supply and Transportation of 10.00HP 5 Star rated 14-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	58000.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Techno / Lubi.</b>	<b>1</b>	<b>No</b>	<b>54000.00</b>
		<b>SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS.</b>			
609	TBSE-5.4.21	Supply and Transportation of 1.00HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	11550.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>11000.00</b>
610	TBSE-5.4.22	Supply and Transportation of 1.50HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	13125.00

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		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>12500.00</b>
611	TBSE-5.4.23	Supply and Transportation of 3.00HP Single phase open well ISI submersible motor pumpset.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	17850.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>17000.00</b>
		<b>THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS.</b>			
612	TBSE-5.4.24	Supply and Transportation of 3.00HP Three phase open well ISI submersible motor pumpset.(65x50) Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	17850.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>17000.00</b>
613	TBSE-5.4.25	Supply and Transportation of 5.00HP Three phase open well ISI submersible motor pumpset.(75x65) Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	22050.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>21000.00</b>
614	TBSE-5.4.26	Supply and Transportation of 7.50HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	26250.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>25000.00</b>
615	TBSE-5.4.27	Supply and Transportation of 10.00HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	33600.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>32000.00</b>
		<b>SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.</b>			
616	TBSE-5.4.28	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.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	5145.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>4900.00</b>

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
617	TBSE-5.4.29	Supply and Transportation of 1.0HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	7455.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>7100.00</b>
618	TBSE-5.4.30	Supply and Transportation of 1.5HP Single phase ISI Mono block CI body motor pumpset (32x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	9975.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>9500.00</b>
619	TBSE-5.4.31	Supply and Transportation of 1.02HP Single phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	12600.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>12000.00</b>
620	TBSE-5.4.32	Supply and Transportation of 2.00HP Three phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	14700.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>14000.00</b>
621	TBSE-5.4.33	Supply and Transportation of 3.00HP Three phase ISI self priming Mono block IP44 motor pumpset (50x50mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	19950.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>19000.00</b>
622	TBSE-5.4.34	Supply and Transportation of 5.00HP Three phase ISI self priming Mono block IP44 motor pumpset (80x80mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB.			
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB.	1	No	24150.00
		<b>Makes: Varuna / Aryan Varsha / Flowell / Waterman / Techno / Mahavir / Unitech / Fitwell / Lubi.</b>	<b>1</b>	<b>No</b>	<b>23000.00</b>
		<b>CONTROL PANEL BOARD FOR MOTORS</b>			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
623	TBSE-5.4.35	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
		<b>REPAIRS TO MOTORS AND REWINDING, BEARINGS</b>			
624	TBSE-5.4.36	Bearing of approved make for electric motor single phase / 3 phase AC upto 1 HP of all types.	1	No	179.00
625	TBSE-5.4.37	Bearing of approved make for electric motor single phase / 3 phase AC upto 2 to 3 HP of all types.	1	No	231.00
626	TBSE-5.4.38	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
627	TBSE-5.4.39	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
628	TBSE-5.4.40	Bearing of approved make for electric motor single phase / 3 phase AC upto 15 to 20 HP of all types.	1	No	489.00
629	TBSE-5.4.41	Bearing of table / cabin / pedestal / ceiling / exhaust fan complete with alignment of shaft and tested.	1	No	84.00
630	TBSE-5.4.42	Bearing of bush / rubber / ring washers complete with alignment of shaft and tested.	1	No	40.00
631	TBSE-5.4.43	Capacitor of table / cabin / pedestal / ceiling / exhaust fan complete.	1	No	38.00
632	TBSE-5.4.44	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
		<b>AIR CONDITIONERS</b>			
		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			
	A	<b>1.5TR Split ACs</b>			
633	TBSE-5.5.1	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-22 makes Mitsubishi SRK 19 CK-6	1	No	40811.00
634	TBSE-5.5.2	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-22 makes Daikin FTE-M or N Sereis / Carrier Novello / Blue Star 3HW18VB1 / Hitachi (Kazi+) / Voltas 183 PX-R.	1	No	38535.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
635	TBSE-5.5.3	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-22 makes Mitsubishi SRK20CKS-6 / Hitachi ACE FMS	1	No	48650.00
636	TBSE-5.5.4	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.	1	No	46725.00
	<b>B</b>	<b>1.8TR-2.1TR Split ACs</b>			
637	TBSE-5.5.5	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	49035.00
638	TBSE-5.5.6	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
639	TBSE-5.5.7	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
640	TBSE-5.5.8	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	57645.00
	<b>C</b>	<b>Inverter Split AC Unts (Cooling Only)</b>			
		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			
641	TBSE-5.5.9	1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410 makes O General model No. ASGA18JCC / Toshibha Model No. RAS-18N3KCV-IN	<b>1</b>	<b>No</b>	57865.00
642	TBSE-5.5.10	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	<b>1</b>	<b>No</b>	57222.00
643	TBSE-5.5.11	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	<b>1</b>	<b>No</b>	65195.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
644	TBSE-5.5.12	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	67295.00
		<b>CASSETTE TYPE AC UNITS</b>			
		Supply of <b>Cassette type</b> 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 completewith Wireless remote controller, but without refrigerent piping and cable.			
645	TBSE-5.5.13	Single Phase R-22 Makes: 2.2TR Daikin FHC28EXVI / R28CGXVI 2.0TR 'O' Genral AUG25AB	1	No	82000.00
646	TBSE-5.5.14	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-22 makes Makes: 'O' Genral	1	No	130090.00
647	TBSE-5.5.15	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
648	TBSE-5.5.16	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
649	TBSE-5.5.17	3.5TR Three Phase Makes: Carrier / Blue Star	1	No	125000.00
650	TBSE-5.5.18	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
651	TBSE-5.5.19	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
652	TBSE-5.5.20	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
653	TBSE-5.5.21	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
654	TBSE-5.5.22	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
655	TBSE-5.5.23	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
		<b>TOWER MODEL TYPE AC UNITS</b>			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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 <b>with cordless remote control</b>			
656	TBSE-5.5.24	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-22 Makes: Voltas	1	No	80000.00
657	TBSE-5.5.25	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
		<b>INVERTOR MODEL HEAT COOL SPLIT AC'S</b>			
658	TBSE-5.5.26	<b>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, &amp; 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 &amp; 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.</b>	1	No	58380.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
659	TBSE-5.5.27	<b>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, &amp; 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 &amp; 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: Diakin Model No FTYN60JXVI or its equivalent model of Toshiba / Mitsubishi / O General</b>	1	No	68838.00
		<b>REPAIRS TO AIR CONDITIONERS</b>			
660	TBSE-5.5.28	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1	Set	1000.00
661	TBSE-5.5.29	Providing 2 runs of Copper tubes for suction and <b>liquid</b> between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. <b>1.3/4" x 3/8"2. 5/8" x 1/4"3. 1/2" x 1/4"</b>	1	Mtr	1000.00
662	TBSE-5.5.30	Supply of 1.0 / 1.5 Ton brand new Rotary type sealed compressor.	1	No	8150.00
663	TBSE-5.5.31	Supply of 2.0 Ton brand new Rotary type sealed compressor.	1	No	9250.00
664	TBSE-5.5.32	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
665	TBSE-5.5.33	Fan motor capacitor 6 mfd by new capacitor for A.C machine of 1.0 1.5 / Ton Capacity.	1	No	156.00
666	TBSE-5.5.34	Thermostat switch suitable for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1	No	410.00
667	TBSE-5.5.35	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
668	TBSE-5.5.36	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
669	TBSE-5.5.37	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
670	TBSE-5.5.38	Filter and capillary tube including welding etc., complete for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1	No	485.00

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671	TBSE-5.5.39	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1	No	225.00
672	TBSE-5.5.40	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1	No	475.00
673	TBSE-5.5.41	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
674	TBSE-5.5.42	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
675	TBSE-5.5.43	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1	No	560.00
676	TBSE-5.5.44	Grill of 1.0 / 1.5 ton A.C. Machine (for assembled Units).	1	No	427.00
677	TBSE-5.5.45	Grill of 1.0 / 1.5 ton A.C. Machine of branded units.	1	No	1700.00
678	TBSE-5.5.46	Rotary / Selector switch for window AC.	1	No	115.00
679	TBSE-5.5.47	Flushing the line, leak testing, leak stopping, vaccuuming, 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
680	TBSE-5.5.48	Flushing the line, leak testing, leak stopping, vaccuuming, dehydrating and charging the gas in the refrigeration system for 1.5 /2.0 Ton Split A.C.Unit.	1	No	2100.00
681	TBSE-5.5.49	Spray painting of Refrigerator using good quality paint after scraping the surface etc.	1	No	720.00
682	TBSE-5.5.50	Sealed compressor of 1/8 HP suitable for 165 to 185 Ltrs. Capacity Refrigerator.	1	No	3100.00
683	TBSE-5.5.51	Sealed compressor of 1/6 HP suitable for 285 / 310 Ltrs. Capacity Refrigerator.	1	No	3750.00
684	TBSE-5.5.52	Supply of fan motor by new 1/10 t0 1/12 H.P 1250 RPM fan motor for Water Cooler of 80-150 Ltrs.	1	No	1590.00
685	TBSE-5.5.53	Gun metal Bush for fan motor.	1	No	125.00
686	TBSE-5.5.54	Resistance type regulator for ceiling fans 900/1200/1400mm sweep complete erected on existing board.	1	No	40.00
687	TBSE-5.5.55	Installation of Split Air Conditioners.	1	No	1500.00
688	TBSE-5.5.56	Removing of existing Split Air Conditioners without damaging to copper pipe.	1	No	400.00
689	TBSE-5.5.57	Installation of Cassette type Split Air Conditioners.	1	No	3000.00
690	TBSE-5.5.58	Installation of Tower type Split Air Conditioners.	1	No	2500.00
691	TBSE-5.5.59	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of Casseete AC unit.	1	Set	2000.00
692	TBSE-5.5.60	Providing 2 runs of Copper tubes for suction and <b>liquid</b> between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. <b>1.7/8" x 1/2"</b>	1	Mtr	1500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
693	TBSE-5.5.61	Providing 2 runs of Copper tubes for suction and <b>liquid</b> between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. <b>1. 1 1/8" x 5/8"</b>	1	Mtr	1750.00
		<b>EVAPORATIVE AIR COOLING SYSTEM</b>			
694	TBSE-5.5.62	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
695	TBSE-5.5.63	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
696	TBSE-5.5.64	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
697	TBSE-5.5.65	Supply, Fabrication and errection of GI ducting of 24 guage with necessary GI / MS supports. Makes : Tata / Zindal	1	Sft	81.90
698	TBSE-5.5.66	Supply and fixing of 40mm thick thermocole insulation of 16 kg density with GI mesh and 12mm thick cement mortor plastering for out door unit.	1	Sft	75.00
699	TBSE-5.5.67	Supply and fixing of 40mm thick glasswool of 24 kg density with alluminium foil insulation for indoor duct.	1	Sft	60.00
700	TBSE-5.5.68	Supply and fixing of alluminium powder coated grill with volume control dampers.	1	Sft	675.00
701	TBSE-5.5.69	Supply and fixing of angular iron frame with 2 coats of zincromat red oxide for installation of air cooling unit.	1	No	4800.00
702	TBSE-5.5.70	Installation and commissioning charges for air cooling unit.	1	No	4000.00
		<b>STABILIZERS</b>			
703	TBSE-5.5.71	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

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704	TBSE-5.5.72	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
705	TBSE-5.5.73	Supply of 3.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	2500.00
		Make : Keeline / Soft Line / Capri.	1	No	2300.00
706	TBSE-5.5.74	Supply of 4.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	3325.00
		Make : Keeline / Soft Line / Capri.	1	No	3135.00
707	TBSE-5.5.75	Supply of 5.0 KVA Stabilizer			
		Makes : V-Guard / Real Guard / Uni Stab / ITL.	1	No	4002.00
		Make : Keeline / Soft Line / Capri.	1	No	3806.00
	<b>6.1</b>	<b>SWAGED POLES / OCTOGONAL POLES, GARDEN POSTS AND ACCESSORIES</b>			
708	TBSE-6.1.1	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
709	TBSE-6.1.2	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
710	TBSE-6.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1	Kg	65.00
711	TBSE-6.1.4	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 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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>9147.00</b>

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
712	TBSE-6.1.5	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>13507.00</b>
713	TBSE-6.1.6	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>14098.00</b>
714	TBSE-6.1.7	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>22536.00</b>
715	TBSE-6.1.8	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1215.00
716	TBSE-6.1.9	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1604.00
717	TBSE-6.1.10	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
718	TBSE-6.1.11	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
719	TBSE-6.1.12	Fabrication, Transportation and supply of 1 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	1500.00
720	TBSE-6.1.13	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1	No	2700.00
721	TBSE-6.1.14	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
722	TBSE-6.1.15	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
723	TBSE-6.1.16	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>88790.00</b>

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
724	TBSE-6.1.17	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>121391.00</b>
725	TBSE-6.1.18	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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>151430.00</b>
726	TBSE-6.1.19	Supply and fixing of suitable feeder pillar 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
727	TBSE-6.1.20	Supply and fixing of suitable feeder pillar 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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
728	TBSE-6.1.21	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
729	TBSE-6.1.22	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
730	TBSE-6.1.23	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
731	TBSE-6.1.24	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 <b>C type</b> decorative <b>single arm</b> 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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>13122.00</b>

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
732	TBSE-6.1.25	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 <b>C type</b> decorative <b>Double arm</b> 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
		<b>Makes Surya / LAASMA.</b>	<b>1</b>	<b>No</b>	<b>15066.00</b>
		Supply of following sizes thermo plastic pole boxes IP 65 protection.			
		Make : Hensel / Sintex			
733	TBSE-6.1.26	300X150X170			1220.00
734	TBSE-6.1.27	300X300X170			1750.00
735	TBSE-6.1.28	300X450X170			2385.00
736	TBSE-6.1.29	300X600X170			2830.00
737	TBSE-6.1.30	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
738	TBSE-6.1.31	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
739	TBSE-6.1.32	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		SS RATE FOR 2015-16
740	TBSE-6.1.33	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
		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.			
741	TBSE-6.1.34	3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	8908.00
742	TBSE-6.1.35	4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	11168.00
743	TBSE-6.1.36	6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	14275.00
744	TBSE-6.1.37	8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	18795.00
745	TBSE-6.1.38	10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1	No	27268.00
		Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete.			
		Makes : Bajaj / Kemrock / Sumip.			
746	TBSE-6.1.39	For 3.00 Mtrs Pole	1	No	1650.00
747	TBSE-6.1.40	For 4.00 Mtrs Pole	1	No	1650.00
748	TBSE-6.1.41	For 6.00 Mtrs Pole	1	No	1980.00
749	TBSE-6.1.42	For 8.00 Mtrs Pole	1	No	2310.00
750	TBSE-6.1.43	For 10.00 Mtrs Pole	1	No	5500.00
	6.2	<b>CONTROL PANEL BOARD</b>			
751	TBSE-6.2.1	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. inch	2.80

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
752	TBSE-6.2.2	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. inch	2.60
753	TBSE-6.2.3	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. inch	2.30
	6.3	<b>METERING EQUIPMENT</b>			
754	TBSE-6.3.1	Supply and erection of 0-415V volt Digital meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / MECO / HPL MAKE.	1	No	2500.00
755	TBSE-6.3.2	Supply and erection of 0-415V volt Analog meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / MECO / HPL MAKE.	1	No	450.00
756	TBSE-6.3.3	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 / MECO / HPL MAKE.	1	No	2500.00
757	TBSE-6.3.4	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Analog Ammeter of size 96x96mm on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / MECO / HPL MAKE.	1	No	450.00
758	TBSE-6.3.5	Supply and erection of Digital frequency meter on existing box / panel board including connections etc., complete.			
		MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / MECO / HPL MAKE.	1	No	4556.00
759	TBSE-6.3.6	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 / MECO / HPL MAKE.	1	No	2700.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
760	TBSE-6.3.7	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 / MECO / HPL MAKE.	1	No	10023.00
761	TBSE-6.3.8	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
762	TBSE-6.3.9	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
763	TBSE-6.3.10	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
764	TBSE-6.3.11	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 MAKE.	1	No	1050.00
765	TBSE-6.3.12	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 MAKE.	1	No	3037.00
766	TBSE-6.3.13	Supply and fixing of 8 Stage APFC Relay with connection etc complete.			
		Makes : L&T / Siemens / EPCOS / Schneider / Elmeasure	1	No	13600.00
767	TBSE-6.3.14	Supply and fixing of 14 Stage APFC Relay with connection etc complete.			
		Makes : L&T / Siemens / EPCOS / Schneider / Elmeasure	1	No	16900.00
	<b>6.4</b>	<b>SUB STATION EQUIPMENT and TRANSFORMERS</b>			
768	TBSE-6.4.1	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	2500.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
769	TBSE-6.4.2	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
770	TBSE-6.4.3	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
771	TBSE-6.4.4	Testing of Transformer oil for dielectric breakdown strength.	1	No	500.00
772	TBSE-6.4.5	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
773	TBSE-6.4.6	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
774	TBSE-6.4.7	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -Upto 315 KVA	1	No	750.00
775	TBSE-6.4.8	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -500 / 1000 KVA	1	No	1050.00
776	TBSE-6.4.9	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -Upto 315 KVA	1	No	300.00
777	TBSE-6.4.10	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -500 / 1000 KVA	1	No	550.00
778	TBSE-6.4.11	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. Upto 315 KVA	1	No	700.00
779	TBSE-6.4.12	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. 500 / 1000 KVA	1	No	1450.00
780	TBSE-6.4.13	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- <b>For copper coils</b>	1	Kg	590.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
781	TBSE-6.4.14	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 - <b>For aluminium coils</b>	1	Kg	390.00
782	TBSE-6.4.15	Insulating HT / LT copper / aluminium coils for Transformers.	1	No	300.00
783	TBSE-6.4.16	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
784	TBSE-6.4.17	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
785	TBSE-6.4.18	Replacing H.T bushing for distribution Transformer by new one.	1	No	350.00
786	TBSE-6.4.19	Replacing H.T bushing metal parts for distribution Transformer by new one.	1	No	380.00
787	TBSE-6.4.20	Replacing L.T bushing for distribution Transformer by new one.- Upto 315 KVA	1	No	165.00
788	TBSE-6.4.21	Replacing L.T bushing for distribution Transformer by new one for.- 500 / 1000 KVA	1	No	175.00
789	TBSE-6.4.22	Replacing L.T bushing metal parts for distribution Transformer by new one for. -100 KVA	1	No	300.00
790	TBSE-6.4.23	Replacing L.T bushing metal parts for distribution Transformer by new one for. -250 / 315 KVA	1	No	500.00
791	TBSE-6.4.24	Replacing L.T bushing metal parts for distribution Transformer by new one for. -500 KVA	1	No	1300.00
792	TBSE-6.4.25	Replacing L.T bushing metal parts for distribution Transformer by new one for. -1000 KVA	1	No	2000.00
793	TBSE-6.4.26	Drying the repaired transformer with appropriate heat / air. -Upto 315 KVA	1	No	3000.00
794	TBSE-6.4.27	Drying the repaired transformer with appropriate heat / air. -500 / 1000KVA	1	No	4200.00
795	TBSE-6.4.28	Loading and Unloadng of transformer from site to Workshop or vice verse. -Upto 500 KVA	1	No	4500.00
796	TBSE-6.4.29	Loading and Unloaidng of transformer from site to Workshop or vice verse. -630 / 1000 KVA	1	No	6800.00
797	TBSE-6.4.30	Transformer oild tested as per IS-335 - 1972 (per Ltr)	1	Ltr	120.00
798	TBSE-6.4.31	Filtration of transformer oil as per ISS specifications filters to die electric strength above 40 K. V at site. (per Ltr)	1	Ltr	8.00
799	TBSE-6.4.32	Filtration of transformer oil as per ISS specifications filters to die electric strength above 40 KV at workshop (per Ltr)	1	Ltr	5.00
800	TBSE-6.4.33	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

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT	SS RATE FOR 2015-16
		Supply, transportation and delivery at site 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 / Vijay Electricals / PETE / Esennar		
		(Note: Other than these makes / brands mentioned rate may be allowed as approved by AP Electricity Board).		
		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%,		
		<b>19. Terminal arrangement.</b> 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		
		<b>21. Fittings &amp; Accessories.</b> 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. Separate neutral bushing l. Uni directional flat rollers.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
801	TBSE-6.4.34	... do..... 63 KVA Copper Wound Transformer	1	No	165000.00
802	TBSE-6.4.35	... do..... 100 KVA Copper Wound Transformer	1	No	180000.00
803	TBSE-6.4.36	... do..... 160 KVA Copper Wound Transformer	1	No	295000.00
804	TBSE-6.4.37	... do..... 250 KVA Copper Wound Transformer	1	No	325000.00
805	TBSE-6.4.38	... do..... 315 KVA Copper Wound Transformer	1	No	375000.00
806	TBSE-6.4.39	... do..... 500 KVA Copper Wound Transformer	1	No	550000.00
		Supply, transportation and delivery at site 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 / Vijay Electricals / PETE / Esennar			
		(Note: Other than these makes / brands mentioned rate may be allowed as approved by AP Electricity Board).			
		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. Primary 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.			
		<b>19. Terminal arrangement.</b> 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			
		<b>21. Fittings &amp; Accessories.</b> a. Rating and terminal marking plate b. Earthing terminals c. Lifting Lugs d. Winding temperature Indicator e. Separate neutral bushing f. Uni directional flat rollers.			
807	TBSE-6.4.40	... do..... 100 KVA Copper Wound Resin Cast Transformer	1	No	400000.00
808	TBSE-6.4.41	... do..... 250 KVA Copper Wound Resin Cast Transformer	1	No	645000.00
809	TBSE-6.4.42	... do..... 315 KVA Copper Wound Resin Cast Transformer	1	No	735000.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
810	TBSE-6.4.43	... do..... 500 KVA Copper Wound Resin Cast Transformer	1	No	910000.00
	<b>6.5</b>	<b>L.T. LINE MATERIALS AND LIGHTENING PROTECTIVE SYSTEM</b>			
811	TBSE-6.5.1	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
812	TBSE-6.5.2	Supply and erecting porcelain disc type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	600.00
813	TBSE-6.5.3	Supply and erecting porcelain pin type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	300.00
814	TBSE-6.5.4	Supply and erecting porcelain post type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1	No	675.00
815	TBSE-6.5.5	Supply and erecting porcelain pin/shackle type insulator suitable for L. T.	1	No	90.00
		Supply and fixing of lightning protective system conforming to IS : 2309 with all standard accessories such as metal globe finials on the top of the building with 25.4 mm dia 3.0mtrs. Length of 'B' class G.I pipe etc., complete without down conductors and earthing.			
816	TBSE-6.5.6	Approved made 11KV, 400A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1	No	7000.00
817	TBSE-6.5.7	Approved made 11KV, 200A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1	No	6100.00
818	TBSE-6.5.8	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
819	TBSE-6.5.9	11KV, H.G fuse set including all standard accessories etc., complete with cost and conveyance of all materials.	1	No	4000.00
820	TBSE-6.5.10	Supply of 7/3.15 AAA C all Alluminium annealed conductor Rabbit.	1	Km	25013.00
821	TBSE-6.5.11	Supply of 7/2.50 AAA C all Alluminium annealed conductor Weasel.	1	Km	15383.00
822	TBSE-6.5.12	Supply of 9.1 Mtr PSCC Pole 280 Kg Working load.	1	No	3129.00
823	TBSE-6.5.13	Supply of 8.0 Mtr PSCC Pole 140 Kg Working load.	1	No	1665.00
824	TBSE-6.5.14	Supply of 175 x 85 mm / 150 x 75 mm RS Joist.	1	Kg	50.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
825	TBSE-6.5.15	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/ SCHIRTECor equivalent	1	No	128000.00
826	TBSE-6.5.16	Installation and commissioning of NIMBUS / FOREND or equivalent advanced lighting protection systems which includes 1. Laying of CC Bed 2. Installation of Lighting Rod3. Laying of Down conductor4. Installation of Counter5. Installation of Earth Electrodes 6. Interconnection between the Electrodes7. Termination of down conductor to earth bus etc complete	1	No	31200.00
827	TBSE-6.5.17	Supply of electro-Mechanical counter			
		Makes: CIRPROTEC / INDALAC / INGESCO/ SCHIRTEC	1	Pt	16000.00
828	TBSE-6.5.18	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
829	TBSE-6.5.19	Supply of down conductor of 1x70sqmm single core PVC insulated unarmoured copper conductor cable of ISI mark.			
		Makes : Polycab / Havells / RPG / RR Kabel	1	Mtr	410.00
	<b>7.1</b>	<b>NET WORKING</b>			
830	TBSE-7.1.1	Supply of 2 Pair, 0.5mm telephone copper wire.			
		Makes : Finolex / Delton / Surabi / Polycab	100	Mtrs	1010.00
831	TBSE-7.1.2	Supply of 5 Pair telephone copper wire.			
		Makes : Finolex / Delton / Surabi / Polycab	100	Mtrs	2800.00
832	TBSE-7.1.3	Supply of LAN Cable cat - 6 UTP cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	100	Mtrs	2300.00
833	TBSE-7.1.4	Supply of LAN Cable cat - 6 STP cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	100	Mtrs	4400.00
834	TBSE-7.1.5	Supply of Cat 6 RJ-45 information outlets including duel face plate.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	340.00
835	TBSE-7.1.6	Supply of 48 Port manageable switches			
		Makes : CISCO / Net Gear / HP / D link.	1	No	15600.00
836	TBSE-7.1.7	Supply of 24 Port manageable switches			
		Makes : CISCO / Net Gear / HP / D link.	1	No	6700.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
837	TBSE-7.1.8	Supply of 8 Port switches.			
		Makes : CISCO / Net Gear / HP / D link.	1	No	1235.00
838	TBSE-7.1.9	Supply of access point.			
		Makes : CISCO-WAP321 or its equivalent in Net Gear / HP / D link.	1	No	12500.00
839	TBSE-7.1.10	Supply of 7 feet length <b>moulded</b> patch cord.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	220.00
840	TBSE-7.1.11	Supply of 3 feet length <b>moulded</b> patch cord.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	200.00
841	TBSE-7.1.12	Supply of 24 port patch panels			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	6500.00
842	TBSE-7.1.13	Supply of 100 pair MDF loaded with 2/10 Modular			
		Makes : Krone make or its equivalent.	1	No	3680.00
843	TBSE-7.1.14	Supply of 100 Pair raiser cable for telephone			
		Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	387.00
844	TBSE-7.1.15	Supply of 10 Pair telephone Copper wire.			
		Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	40.00
845	TBSE-7.1.16	Supply of 20 Pair telephone Copper wire .			
		Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	76.00
846	TBSE-7.1.17	Supply of 50 Pair telephone Copper wire .			
		Makes : Finolex / Delton / Surabi / Polycab.	1	Mtr	195.00
847	TBSE-7.1.18	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
848	TBSE-7.1.19	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
849	TBSE-7.1.20	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
850	TBSE-7.1.21	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
851	TBSE-7.1.22	Supply of 6U floor / Wall mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	4700.00
852	TBSE-7.1.23	Supply of 9U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	5580.00
853	TBSE-7.1.24	Supply of 12U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	6484.00
854	TBSE-7.1.25	Supply of 15U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	7348.00
855	TBSE-7.1.26	Supply of 17U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	10125.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
856	TBSE-7.1.27	Supply of 42U floor mounting net work rack with power spike including all accessories.			
		Makes : HCL / Vall.	1	No	13500.00
857	TBSE-7.1.28	Supply of 6 Core (Indoor / Out door), Single mode armourd, Optic fibre cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	Mtr	75.00
858	TBSE-7.1.29	Supply of 12 Core (Indoor / Out door), Single mode armourd, Optic fibre cable.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	Mtr	105.00
859	TBSE-7.1.30	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
860	TBSE-7.1.31	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
861	TBSE-7.1.32	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
862	TBSE-7.1.33	Supply of Pigtails for fibre core connectivity.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	350.00
863	TBSE-7.1.34	Supply of Cat 6 RJ-45 information outlets including Single face plate.			
		Makes : D Link / AMP / Molex / Legrand / Krone.	1	No	250.00
		<b>RACEWAYS AND JUNCTION BOXES</b>			
864	TBSE-7.1.35	Supply of 100mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	460.00
865	TBSE-7.1.36	Supply of 150mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	605.00
866	TBSE-7.1.37	Supply of 300mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	1035.00
867	TBSE-7.1.38	Supply of 100mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	435.00
868	TBSE-7.1.39	Supply of 150mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	560.00
869	TBSE-7.1.40	Supply of 300mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1	Mtr	1010.00
870	TBSE-7.1.41	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
871	TBSE-7.1.42	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
872	TBSE-7.1.43	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
	<b>8.1</b>	<b>MISSILLANEOUS ITEMS</b>			
873	TBSE-8.1.1	TW Seperators / Gutties	100	Nos	165.00
874	TBSE-8.1.2	Rawl Plugs	100	Nos	28.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
875	TBSE-8.1.3	U Nails	100	Nos	44.00
876	TBSE-8.1.4	Alluminium Link Clips	144	Nos	55.00
877	TBSE-8.1.5	50 mm G.I.Nut and Bolts.	1	Set	13.00
878	TBSE-8.1.6	63 to 100 mm G.I.Nut and Bolts.	1	Set	24.00
879	TBSE-8.1.7	50 mm 0 Gauge Nails	1	Doz	44.00
880	TBSE-8.1.8	63 to 100 mm 0 Gauge Nails	1	Doz	73.00
881	TBSE-8.1.9	Hard Coke	1	Kg	15.00
882	TBSE-8.1.10	Salt	1	Kg	10.00
883	TBSE-8.1.11	PVC Cleats 2 Way	100	Nos	330.00
884	TBSE-8.1.12	PVC Cleats 4 Way	100	Nos	440.00
885	TBSE-8.1.13	Binding Wire	1	Kg	61.00
886	TBSE-8.1.14	PVC / Cotton Insulation tape Role ( 10 Mtrs)	1	No	17.00
887	TBSE-8.1.15	C.I.Knob	1	No	25.00
888	TBSE-8.1.16	Stay tight set (Jum bracket 300 mm)	1	Pair	300.00
889	TBSE-8.1.17	Stay clamp with bolts and Nuts)	1	Set	200.00
890	TBSE-8.1.18	L.T.Guy insulator	1	No	75.00
891	TBSE-8.1.19	12 / 15 MS plain rod fan hook	1	No	30.00
892	TBSE-8.1.20	19 / 20 mm Steel tube fan down rod	1	Mtr	80.00
893	TBSE-8.1.21	Consealed box PVC / MS with hook for fan	1	No	100.00
894	TBSE-8.1.22	Coil Earthing	1	No	75.00
895	TBSE-8.1.23	Cable root Indicators	1	No	90.00
896	TBSE-8.1.24	40 mm x 40 mm x 6 mm angle iron with I bolt.	1	Set	250.00
897	TBSE-8.1.25	Mild Steel Items	1	Kg	61.00
898	TBSE-8.1.26	Acrylic Cover of size 4" x 7" for night lamps.	1	No	17.00
899	TBSE-8.1.27	TW / PVC Round Blocks	1	No	7.00
900	TBSE-8.1.28	G.I.Funnel with Mesh 1/2" x 4"	1	No	83.00
901	TBSE-8.1.29	Asbestos Sheet	1	Sqft	22.00
902	TBSE-8.1.30	First Aid box 18" x 12" x 8"	1	No	1100.00
903	TBSE-8.1.31	11 KV/22 KV Hand gloves	1	No	200.00
904	TBSE-8.1.32	Danger Notice Plates of size 250x200mm, shall comply with IS:2551-1982.	1	No	250.00
905	TBSE-8.1.33	Electrical Insulating Mat of 6mm thick shall Withstand voltages up to 65kV ac and 240V dc. and every meter of Mat Tested & Stamped to IS:15652-06 specification with ISI marking.	1	Sqm	1250.00
906	TBSE-8.1.34	Shock instrution chart in English / Hindi / Telugu duly framed with front glass.	1	No	500.00
907	TBSE-8.1.35	Copper plate / Copper strip (Per K.G)	1	Kg	605.00
908	TBSE-8.1.36	No. 8/10 SWG copper wire (per K.G)	1	Kg	605.00
909	TBSE-8.1.37	PVC Insulated copper winding wire of fine quality (per K. G)	1	Kg	726.00
910	TBSE-8.1.38	No. 14 SWG copper wire (per K. G)	1	Kg	605.00
911	TBSE-8.1.39	Copper winding wire (per K. G)	1	Kg	701.00
912	TBSE-8.1.40	G.I. Strip / Plate / Wire (per K. G)	1	Kg	68.00
913	TBSE-8.1.41	Alluminum Bus bars/Strips/accessories	1	Kg	234.00
914	TBSE-8.1.42	Alluminum winding wire	1	Kg	322.00
915	TBSE-8.1.43	6.2 Volt series bulb (25 Nos.)	25	Nos	91.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
916	TBSE-8.1.44	6.2 Volt series bulb with navar plate(25 Nos.)	25	Nos	97.00
917	TBSE-8.1.45	Supply of Rotating machine	1	No	16500.00
918	TBSE-8.1.46	Supply and fixing of 6mm thick MS Chekered plate.	1	Kg	67.00
919	TBSE-8.1.47	Supply and fixing of 6mm thick Alluminium Chekered plate.	1	Kg	266.00
920	TBSE-8.1.48	Copper old winding Wire scrap for 1 Kg	1	Kg	165.00
921	TBSE-8.1.49	Cement	1	Kg	6.60
922	TBSE-8.1.50	Hylam Sheet	1	sq. inch	0.60
923	TBSE-8.1.51	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit.	1	Cum	220.00
924	TBSE-8.1.52	Cost of Sand	1	Cum	594.00
925	TBSE-8.1.53	Cost of Bricks	1000	Nos	3819.00
926	TBSE-8.1.54	25mm Nominal Bore light grade G.I.Pipe	1	Mtr	226.00
927	TBSE-8.1.55	25mm Nominal Bore Medium grade G.I.Pipe	1	Mtr	242.00
928	TBSE-8.1.56	40mm Nominal Bore light grade G.I.Pipe	1	Mtr	355.00
929	TBSE-8.1.57	40mm Nominal Bore Medium grade G.I.Pipe	1	Mtr	381.00
930	TBSE-8.1.58	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1	No	6.00
931	TBSE-8.1.59	G.I Nuts, Bolts an Washers each set	1	Set	11.00
932	TBSE-8.1.60	18" dia 2" thick hume pipe ring	1	No	220.00
933	TBSE-8.1.61	18" dia 3" hume pipe ring	1	No	275.00
934	TBSE-8.1.62	2" thick CC cover for hume pipe ring with handle.	1	No	121.00
935	TBSE-8.1.63	Supply of Saddle / Clamps suitable for fixing 2 Core 4 to 10 Sqmm Cable.	100	Nos	249.00
936	TBSE-8.1.64	Supply of Saddle / Clamps suitable for fixing 4 Core 4 & 6 Sqmm Cable.	100	Nos	249.00
937	TBSE-8.1.65	Supply of Saddle / Clamps suitable for fixing 4 Core 10 & 16 Sqmm Cable.	100	Nos	314.00
938	TBSE-8.1.66	Supply of Saddle / Clamps suitable for fixing 3.5 Core 25 & 35 Sqmm Cable.	100	Nos	382.00
939	TBSE-8.1.67	Supply of Saddle / Clamps suitable for fixing 3.5 Core 50 Sqmm Cable.	100	Nos	545.00
940	TBSE-8.1.68	Supply of Saddle / Clamps suitable for fixing 3.5 Core 70 & 95 Sqmm Cable.	100	Nos	605.00
941	TBSE-8.1.69	Supply of Saddle / Clamps suitable for fixing 3.5 Core 120 to 185 Sqmm Cable.	100	Nos	726.00
942	TBSE-8.1.70	Supply of Saddle / Clamps suitable for fixing 3.5 Core 240 & 300 Sqmm Cable.	100	Nos	908.00
943	TBSE-8.1.71	Supply of Saddle / Clamps suitable for fixing 3.5 Core 400 Sqmm Cable.	100	Nos	1210.00
944	TBSE-8.1.72	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1	No	88.00
		<b>LABOUR RATES</b>			
945	TBSE-8.1.73	Skilled Electrician	1	No	440.00
946	TBSE-8.1.74	Semi Skilled Electrician / Lineman	1	No	375.00
947	TBSE-8.1.75	Skilled Mason	1	No	385.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
948	TBSE-8.1.76	Semi Skilled Mason	1	No	345.00
949	TBSE-8.1.77	Skilled Welder	1	No	385.00
950	TBSE-8.1.78	Semi Skilled Welder	1	No	
951	TBSE-8.1.79	Skilled Fitter	1	No	385.00
952	TBSE-8.1.80	Semi Skilled Fitter	1	No	345.00
953	TBSE-8.1.81	Helper (Electrical)	1	No	345.00
954	TBSE-8.1.82	Skilled Carpenter	1	No	385.00
955	TBSE-8.1.83	Semi Skilled Carpenter	1	No	345.00
956	TBSE-8.1.84	Man Mazdoor	1	No	295.00
957	TBSE-8.1.85	DG Set operator/Air Compressor	1	No	385.00
958	TBSE-8.1.86	2nd Class DG Set operator/Air Com	1	No	345.00
959	TBSE-8.1.87	Plumber (Licensed)/Pipe Fitter	1	No	440.00
960	TBSE-8.1.88	Painter Class -2	1	No	345.00
961	TBSE-8.1.89	Diploma Engineer / Surveyor	1	No	550.00
962	TBSE-8.1.90	Graduate Engineer	1	No	735.00
963	TBSE-8.1.91	ITI Certificate holder	1	No	440.00
964	TBSE-8.1.92	Stenographer / Computer Operator	1	No	485.00
	<b>9.1</b>	<b>WIRELESS FIRE ALARM SYSTEM</b>			
965	TBSE-9.1.1	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
966	TBSE-9.1.2	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
967	TBSE-9.1.3	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			

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		charges etc complete.			
		Makes : Cease Fire / Visonic / Honeywell	1	No	13200.00
968	TBSE-9.1.4	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
	<b>9.2</b>	<b>ADDRESSABLE - FIRE ALARM SYSTEM</b>			
969	TBSE-9.2.1	Supply, Installation, testing and commissioning of wall mounting <b>10 loop micro processor</b> 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 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
970	TBSE-9.2.2	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
971	TBSE-9.2.3	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 indictions and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	415000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	370000.00
972	TBSE-9.2.4	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 indictions and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	280000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	250000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
973	TBSE-9.2.5	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 indictions and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	235000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	210000.00
974	TBSE-9.2.6	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 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 1 loop Micro processor based Fire Alarm control panel with zonal indictions and battery back up as per detailed specifications.			
		Makes: Notifier / Edwards	1	No	200000.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	190000.00
975	TBSE-9.2.7	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
976	TBSE-9.2.8	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
977	TBSE-9.2.9	Supply and installation of addressable analogue manual call point with resettable flexible element to initiate alarm including the cost of mounting accessories etc. complete.			
		Makes: Notifier / Edwards	1	No	5900.00
		Makes: Siemens / Morley / Bosch / Ravel	1	No	5300.00
978	TBSE-9.2.10	Supply and installation of intelligent 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
979	TBSE-9.2.11	Supply and installation of intelligent 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
980	TBSE-9.2.12	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
981	TBSE-9.2.13	Supply and Installation of Intelligent 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
982	TBSE-9.2.14	Supply and Installation of Intelligent 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
983	TBSE-9.2.15	Supply and Installation of Intelligent 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
	<b>9.3</b>	<b>CONVENTIONAL - FIRE ALARM SYSTEM</b>			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
984	TBSE-9.3.1	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
985	TBSE-9.3.2	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
986	TBSE-9.3.3	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
987	TBSE-9.3.4	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
988	TBSE-9.3.5	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
989	TBSE-9.3.6	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
990	TBSE-9.3.7	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
991	TBSE-9.3.8	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
992	TBSE-9.3.9	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
993	TBSE-9.3.10	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
994	TBSE-9.3.11	Supply and installation of response indicators for above false ceiling detectors.	1	No	150.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
995	TBSE-9.3.12	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
996	TBSE-9.3.13	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
997	TBSE-9.3.14	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
	<b>9.4</b>	<b>POWDER BASED FIRE EXTINGUISHERS</b>			
998	TBSE-9.4.1	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
999	TBSE-9.4.2	Supply and fixing of ABC Powder <b>MAP 4 Kg Fire extinguisher</b> 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 ( <b>Cease Fire / Minimax make</b> ) 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

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1000	TBSE-9.4.3	Supply and fixing of ABC Powder <b>MAP 2 Kg Fire extinguisher</b> 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 <b>(Cease Fire / Minimax make)</b> 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
1001	TBSE-9.4.4	Supply and fixing of Ceiling Mounted <b>ABC MAP 90, 5 Kg stored pressure type</b> , 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 Polyester powder coating, sheet metal thickness:1.60mm , Helium leakage detection tested, ISI approved with 5 years warranty <b>(Cease Fire / Minimax make)</b> 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
		<b>CLEAN AGENT FIRE EXTINGUISHERS</b>			
1002	TBSE-9.4.5	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 polyester 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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1003	TBSE-9.4.6	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
1004	TBSE-9.4.7	Supply & Fixing of <b>4.5Kg, CO2 Type</b> 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
1005	TBSE-9.4.8	Supply and fixing of Escape signage boards in Rigid Photo luminecent based glow in Dark rigid sheet with high intensity luminous properties with specificaiton of Cease Fire or its equivalent make Model-1ES01	1	No	1300.00
1006	TBSE-9.4.9	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 tempeartures 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
1007	TBSE-9.4.10	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1008	TBSE-9.4.11	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
		<b>WATER MIST FIRE EXTINGUISHERS</b>			
1009	TBSE-9.4.12	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
		<b>AEROSOL GENERATION SYSTEM (AGS) AND FIRE EXTINGUISHERS</b>			
1010	TBSE-9.4.13	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	49000.00
		Makes : SALAMANDRA / SEAARA / AGS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1011	TBSE-9.4.14	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	2500.00
		Makes : SALAMANDRA / SEAARA / AGS			
1012	TBSE-9.4.15	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	2900.00
		Makes : SALAMANDRA / SEAARA / AGS			
1013	TBSE-9.4.16	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	3300.00
		Makes : SALAMANDRA / SEAARA / AGS			

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1014	TBSE-9.4.17	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 <sup>3</sup> and shall be confirmed to NFPA 2010 and has other national and international certificates.	1	No	74500.00
1015	TBSE-9.4.18	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	120000.00
		Makes : SALAMANDRA / SEAARA / AGS			
1016	TBSE-9.4.19	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	40000.00
		Makes : SALAMANDRA / SEAARA / AGS			
1017	TBSE-9.4.20	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, Electrical Storage and technical appliances, important documents area & etc.			70500.00
		Makes : SALAMANDRA / SEAARA / AGS			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1018	TBSE-9.4.21	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	8500.00
		Makes : SALAMANDRA / SEAARA / AGS			
	<b>9.5</b>	<b>FIRE HYDRANT AND SPRINKLER SYSTEM</b>			
1019	TBSE-9.5.1	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 <b>of 1620 lpm at 56 Mtr. head</b> 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			
1020	TBSE-9.5.2	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 <b>of 2280 lpm at 70 Mtr. head</b> 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		SS RATE FOR 2015-16
		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			
1021	TBSE-9.5.3	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 <b>of 2850 lpm at 70 Mtr. head</b> 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			
1022	TBSE-9.5.4	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 <b>of 1620 lpm at 56 Mtr head</b> 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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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			
1023	TBSE-9.5.5	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 <b>of 2280 lpm at 70 Mtr head</b> 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			
1024	TBSE-9.5.6	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
		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 <b>of 2850 lpm at 70 Mtr head</b> 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			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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			
1025	TBSE-9.5.7	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.			
		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			
1026	TBSE-9.5.8	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			
1027	TBSE-9.5.9	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all	1	Set	218750.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		respect as required			
		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			
		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			
1028	TBSE-9.5.10	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			
1029	TBSE-9.5.11	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
		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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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			
1030	TBSE-9.5.12	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			
1031	TBSE-9.5.13	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	55000.00
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of <b>180 lpm at 56 Mtr head</b> 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			
1032	TBSE-9.5.14	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

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		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of <b>180 lpm at 70 Mtr head</b> 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			
1033	TBSE-9.5.15	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 <b>900 lpm at 45 Mtr head</b> 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			
1034	TBSE-9.5.16	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			
		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		SS RATE FOR 2015-16
		Makes : Kirloskar			
1035	TBSE-9.5.17	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			
1036	TBSE-9.5.18	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.			
		d) Suitable cement concrete foundation duly plastered with anti vibration pads.			
		Makes : Kirloskar			
		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			
1037	TBSE-9.5.19	(a) 250 mm dia	1	Mtr	3245.00
1038	TBSE-9.5.20	(b) 200 mm dia 'C' Class	1	Mtr	3210.00
1039	TBSE-9.5.21	(c) 200 mm dia 'B' Class	1	Mtr	2800.00
1040	TBSE-9.5.22	(d) 150 mm dia 'C' Class	1	Mtr	2400.00
1041	TBSE-9.5.23	(e) 150 mm dia 'B' Class	1	Mtr	1930.00
1042	TBSE-9.5.24	(f) 100 mm dia 'C' Class	1	Mtr	1515.00
1043	TBSE-9.5.25	(g) 100 mm dia 'B' Class	1	Mtr	1275.00
1044	TBSE-9.5.26	(h) 80 mm dia 'C' Class	1	Mtr	1000.00
1045	TBSE-9.5.27	(i) 80 mm dia 'B' Class	1	Mtr	895.00
1046	TBSE-9.5.28	(j) 65 mm dia 'C' Class	1	Mtr	750.00
1047	TBSE-9.5.29	(k) 65 mm dia 'B' Class	1	Mtr	675.00

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1048	TBSE-9.5.30	(l) 50 mm dia 'C' Class	1	Mtr	600.00
1049	TBSE-9.5.31	(m) 50 mm dia 'B' Class	1	Mtr	530.00
1050	TBSE-9.5.32	(n) 40 mm dia	1	Mtr	512.00
1051	TBSE-9.5.33	(o) 32 mm dia 'C' Class	1	Mtr	400.00
1052	TBSE-9.5.34	(p) 32 mm dia 'B' Class	1	Mtr	330.00
1053	TBSE-9.5.35	(q) 25 mm dia 'C' Class	1	Mtr	300.00
1054	TBSE-9.5.36	(r) 25 mm dia 'B' Class	1	Mtr	270.00
1055	TBSE-9.5.37	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.			
		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 / Intervolve.			
1056	TBSE-9.5.38	(a) 250 mm . dia	1	No	12525.00
1057	TBSE-9.5.39	(b) 200 mm . dia	1	No	5300.00
1058	TBSE-9.5.40	(c) 150 mm dia	1	No	4350.00
1059	TBSE-9.5.41	(d) 100 mm dia	1	No	3400.00
1060	TBSE-9.5.42	(e) 80 mm dia	1	No	3100.00
		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.			
1061	TBSE-9.5.43	(a) 200 mm dia	1	No	5000.00
1062	TBSE-9.5.44	(b) 150 mm dia	1	No	4000.00
1063	TBSE-9.5.45	(c) 100 mm dia	1	No	3725.00
1064	TBSE-9.5.46	(d) 80 mm dia	1	No	3500.00
1065	TBSE-9.5.47	(e) 50 mm dia	1	No	1723.00
		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.			
1066	TBSE-9.5.48	(a) 250 mm . dia	1	No	17007.00
1067	TBSE-9.5.49	(b) 200 mm . dia	1	No	11849.00
1068	TBSE-9.5.50	(c) 150 mm dia	1	No	7631.00
1069	TBSE-9.5.51	(d) 100 mm dia	1	No	5088.00
1070	TBSE-9.5.52	(e) 80 mm dia	1	No	3812.00
1071	TBSE-9.5.53	(f) 50 mm dia	1	No	3067.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Providing, installation, testing and commissioning of gun metal valves of following sizes as required.			
		Make: Newage / Winco / Padmini / Safex.			
1072	TBSE-9.5.54	(a) 50 mm dia	1	No	1750.00
1073	TBSE-9.5.55	(b) 40 mm dia	1	No	1400.00
1074	TBSE-9.5.56	(c) 32 mm dia	1	No	1250.00
1075	TBSE-9.5.57	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.			
		Make: Mini Max / Safex / Newage / Winco / Padmini.	1	No	6140.00
1076	TBSE-9.5.58	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
1077	TBSE-9.5.59	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.			
1078	TBSE-9.5.60	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
1079	TBSE-9.5.61	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

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1080	TBSE-9.5.62	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
1081	TBSE-9.5.63	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
1082	TBSE-9.5.64	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
1083	TBSE-9.5.65	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
1084	TBSE-9.5.66	Supply, fixing, testing and commissioning of UL approved flexible dropper of 1.5 Mtrs length with required accessories.			
		Makes: SAFEX / HD / TYCO / VIKING / NEWAGE / SHARP	1	No	1200.00
1085	TBSE-9.5.67	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
1086	TBSE-9.5.68	Supply and fixing Flow Switches in 100mm dia MS pipe.			
		Makes : System Sensor / Switzer / Approved makes	1	No	5375.00
1087	TBSE-9.5.69	Supply and fixing Flow Switches in 150 mm dia MS pipe.			
		Makes : System Sensor / Switzer / Approved makes	1	No	7500.00
1088	TBSE-9.5.70	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 <sup>2</sup> .			
		MAKE: HGURU / FIEBIG and Approved makes	1	No	675.00
1089	TBSE-9.5.71	Supply, installation, testing and commissioning of 25mm dia Gate valve			
		Makes : Zoloto / Leader / Approved makes	1	No	1175.00
1090	TBSE-9.5.72	Supply, installation, testing and commissioning of 25mm dia Ball valve			
		Makes : Zoloto / Leader / Approved makes	1	No	650.00

Approved brands Plumbing Items in the Telangana Buildings SoR: 2015-16

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1091	TBSE-9.5.73	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve	1	No	1250.00
1092	TBSE-9.5.74	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			
		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			
1093	TBSE-9.5.75	a) 200mm nominal dia	1	Ea	24790.00
1094	TBSE-9.5.76	b) 150mm nominal dia	1	Ea	13280.00
1095	TBSE-9.5.77	c) 100mm nominal dia	1	Ea	7450.00
1096	TBSE-9.5.78	d) 80mm nominal dia	1	Ea	5100.00
1097	TBSE-9.5.79	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings	AS per Civil SSR		
		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.			
1098	TBSE-9.5.80	a) 150mm nominal dia	1	Mtr	45.00
1099	TBSE-9.5.81	b) 100mm nominal dia	1	Mtr	40.00
1100	TBSE-9.5.82	c) 80mm nominal dia	1	Mtr	30.00
1101	TBSE-9.5.83	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
1102	TBSE-9.5.84	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 / Unicab / Polycab / Finolex / Havells.			
1103	TBSE-9.5.85	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 / Unicab / Polycab / Finolex / Havells.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1104	TBSE-9.5.86	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 / Unicab / Polycab / Finolex / Havells.	1	Mtr	120.00
1105	TBSE-9.5.87	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 / Unicab / Polycab / Finolex / Havells.	1	Mtr	165.00
1106	TBSE-9.5.88	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 / Unicab / Polycab / Finolex / Havells.	1	Mtr	275.00
1107	TBSE-9.5.89	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 / Unicab / Polycab / Finolex / Havells.	1	Mtr	235.00
	<b>10.1</b>	<b>GENERATORS SPECIFICATION</b>			
		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 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.			
		<b>A. Alternator :</b> 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>B.Diesel Engine :</b> 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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards			
1108	TBSE-10.1.1	15KVA, 3 Phase, 415, 50Hz, 19BHP, water cooled multi cylinder diesel generator set with alternator of 15 KVA out put continous rating at 0.8 p.f, Batteries. (SOR-2013-14-ELEC-10.1.1)	1	No	385875.00
1109	TBSE-10.1.2	30KVA, 3 Phase, 415, 50Hz, 40 to 42 BHP, water cooled multi cylinder diesel generator set with alternator of 30KVA out put continous rating at 0.8 p.f, Batteries. (SOR-2013-14-ELEC-10.1.2)	1	No	496125.00
1110	TBSE-10.1.3	40KVA, 3 Phase, 415, 50Hz, 56BHP, water cooled multi cylinder diesel generator set with alternator of 40 KVA out put continous rating at 0.8 p.f, and Batteries .	1	No	617400.00
		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.			
		<b>A. Alternator :</b> 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 IP21.			
		<b>B.Diesel Engine :</b> 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 cladding. 02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards			
		<b>C. AMF Control Panel:-</b> AMF control panel shall be			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		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 in comer 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			
1111	TBSE-10.1.4	63.00KVA, 3 Phase, 415, 50Hz, 78 to 83BHP, water cooled multi cylinder diesel generator set with alternator of 63KVA out put continous rating at 0.8 p.f, and Batteries .	1	No	810000.00
1112	TBSE-10.1.5	125KVA, 3 Phase, 415, 50Hz, 154BHP, water cooled multi cylinder diesel generator set with alternator of 125 KVA out put continous rating at 0.8 p.f, and Batteries .	1	No	1100000.00
		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.			
		<b>A. Alternator :</b> 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.			

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		<b>B.Diesel Engine :</b> 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			
		<b>C. AMF Control Panel:-</b> 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 14.Control cable up to 15 Mtrs 2.5Sqmm 6 Core			
1113	TBSE-10.1.6	160KVA, 3 Phase, 415, 50Hz, 200BHP, water cooled multi cylinder diesel generator set with alternator of 160 KVA out put continous rating at 0.8 p.f, and Batteries .	1	No	1433250.00
1114	TBSE-10.1.7	250KVA, 3 Phase, 415, 50Hz, 310BHP, water cooled multi cylinder diesel generator set with alternator of 250 KVA out put continous rating at 0.8 p.f, and Batteries	1	No	2205000.00
1115	TBSE-10.1.8	320KVA, 3 Phase, 415, 50Hz, 380BHP, water cooled multi cylinder diesel generator set with alternator of 45 KVA out put continous rating at 0.8 p.f, and Batteries	1	No	2866500.00
	<b>11.1</b>	<b>UPS SYSTEMS</b>			
1116	TBSE-11.1.1	Supply and installation of 800VA, 12VDC home UPS system pure sine wave out put, single phase input / Single phase output.			

Approved brands Plumbing Items in the Telangana Buildings SoR: 2015-16

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
		Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1	No	9500.00
1117	TBSE-11.1.2	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
1118	TBSE-11.1.3	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
1119	TBSE-11.1.4	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
1120	TBSE-11.1.5	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
1121	TBSE-11.1.6	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
1122	TBSE-11.1.7	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
1123	TBSE-11.1.8	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
1124	TBSE-11.1.9	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 / Power one / Numeric / Emerson.	1	No	185000.00

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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	UNIT		SS RATE FOR 2015-16
1125	TBSE-11.1.10	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 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 / Power one / Numeric / Emerson.	1	No	212000.00
1126	TBSE-11.1.11	Supply and providing of UPS cum battery rack up to 4 batteries	1	No	1500.00
1127	TBSE-11.1.12	Supply and providing of UPS cum battery rack 5 to 10 batteries	1	No	2875.00
1128	TBSE-11.1.13	Supply and providing of UPS cum battery rack upto 11 to 20 batteries	1	No	5175.00
1129	TBSE-11.1.14	Supply and fixing of 12V 26 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	3850.00
1130	TBSE-11.1.15	Supply and fixing of 12V 42 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	6446.00
1131	TBSE-11.1.16	Supply and fixing of 12V 65 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	7970.00
1132	TBSE-11.1.17	Supply and fixing of 12V 100 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	9900.00
1133	TBSE-11.1.18	Supply and fixing of 12V 120 AH SMF battery including wire leads.			
		Makes : Quanta / Racket / Exide.	1	No	10500.00
1134	TBSE-11.1.19	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
1135	TBSE-11.1.20	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

	<b>LEGEND</b>
	<b>"TBSE" -1.1.01</b>
	TBSE - Denotes Electrical item in the Telangana Buildings SoR

# PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2015-16
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. a.	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 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 controlled 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 measurement.		
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	

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
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	
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
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	
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	
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. a.	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)		To follow as per Standard data
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Per Metre	
8. b.	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 :		
	80mm to 750mm dia	To follow as per Standard data	
	800mm dia	Per Metre	530.00
	900mm dia	Per Metre	689.00
	1000mm dia	Per Metre	895.00
	1100mm dia	Per Metre	1103.00
	1200mm dia	Per Metre	1311.00

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
9. a.	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 :		
	80mm to 800mm	To follow as per Standard data	
	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. b.	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)		To follow as per Standard data
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Each Joint	
10	Jointing CI/DI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolap, 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.)		
	Diameter of pipe/Fittings/ valve in mm :		
	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 joinap 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	20.00
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		To follow as per Standard data
	per every 25 mm dia.		
	80mm to 600mm	Per Metre	
	700mm dia	Per Metre	307.00
	800mm dia	Per Metre	368.00
	900mm dia	Per Metre	441.00
	1000mm dia	Per Metre	528.00

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
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		
	15mm to 150mm	Per Metre	
12b	Laying, jointing of PVC/HDPE 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	25.00
	25mm dia	Per Metre	26.00
	32mm dia	Per Metre	29.00
	40mm dia	Per Metre	29.00
	50mm dia	Per Metre	29.00
	Note:(i) The above rates are applicable for the works in District only.		
	(ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.		
13	Lowering and laying in ready made trench true to alignment and gradient, jointing, and testing of <u>Stone ware pipes</u> 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 .		
	100mm to 450mm	Per Metre	
14	Lowering, laying, jointing and testing to hydraulic test pressure including cost of water with minimum water lead of 500m for <u>UPVC pressure pipes</u> 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		
	63mm to 315 mm	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	53.00
	125mm dia OD	Per Metre	64.00

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	140mm dia OD	Per Metre	67.00
	160mm dia OD	Per Metre	72.00
	180mm dia OD	Per Metre	80.00
	200mm dia OD	Per Metre	87.00
	225mm dia OD	Per Metre	96.00
	250mm dia OD	Per Metre	102.00
	280mm dia OD	Per Metre	112.00
	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		To follow as per Standard data
	<u>Dia of Valve in mm.</u>		
	80mm to 450mm	Each	
17	Labour charges for fixing <u>Air valves</u> including boring the mains and threading the bore fixing nipple etc., complete.		
	<u>Dia of Air valve in mm.</u>		
	25mm dia	Each	
	40mm dia	Each	
	50mm dia	Each	165.00
	65mm dia	Each	176.00
	80mm dia	Each	191.00
	100mm dia	Each	226.00
	125mm dia	Each	351.00
	150mm dia	Each	385.00
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.		
	<u>Dia of Air valve in mm.</u>		
	25mm dia	Each	157.00
	40mm dia	Each	177.00
	50mm dia (Double Air valves)	Each	188.00
	65mm dia (Double Air valves)	Each	201.00
	80mm dia (Double Air valves)	Each	220.00
	100mm dia (Double Air valves)	Each	256.00
	125mm dia (Double Air valves)	Each	400.00
	150mm dia (Double Air valves)	Each	438.00
19	Uprooting C.I./ DI Pipes by melting the lead, loosening the joinap, 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	

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, separating 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.		
	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 Tapping	
25	Cutting road surface including stacking of excavated materials for pipe line trench work.		
	a) Cutting open B.T. road surface (upto 75 mm thick) including water bound macadam/ wet mix macadam.	10 Sqm	626.00
	b) Cutting open C.C. road surface	1 Cum	1739.00

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	c) Cutting open water bound macadam road/wet mix macadam. including soiling	1 Cum	214.00
26	Bailing out water.(For PH item)		
	a) Bailing out water from the pipe line trenches with oil engine driven pumpseap, including hire charges, fuel charges and wages for Driver and Helper.	HP/Hour	50.00
	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	37.00
	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 area	To follow as per Standard data
	b) Double staging from (2.5 m to 4.5 Mts.)	1 Sqm of Shoring area	
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	11671.00
	b) 1 to 2 m deep under water.	10 Cum	16717.00
	c) 2 to 5 m deep under water.	10 Cum	25092.00
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	4794.00
	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	36.00
	per every 25 mm dia/mtr.		
31	Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
a)	for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.	One Sqm of Centering area	
	1) Slabs for thickness (150 mm to 300 mm)		3260.00
	2) Slabs for thickness above (300 mm)		6518.00
	3) Side walls curved surfaces including both sides of wall.		2463.00
	4) Side wall straight surfaces including both sides of wall..		2192.00
	5) Dome.		2670.00
	6) Roof Slab.		1643.00
	7) Column braces and beams		1099.00
	8) Circular braces, ring beams & circular column.		1206.00
	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	
	2) Beams & Lintels	1 Cum	
	3) Sun shades	1 Sqm	
	4) RCC vertical walls of plane surface including both sides of wall.	1 Sqm of centering area	876.00
	5) RCC vertical walls of circular faces including both sides of wall.	1 Sqm of centering area	1115.00
	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	134.00
	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	41.00
33	Labour charges for fixing ventilating shafts complete with all accessories.	Each	To follow as per Standard data
34	Labour charges for fixing water closets including fixing of foot resap (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	

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
37	Fixing urinal with inlet and waste pipe connections etc., complete.	Each	Relevant Building SoR items
38	Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete	10 Cum	
39(a)	Extra allowance for isolated scattered works viz., valve pits, public fountains, meter pits and manholes, etc., complete.	Each	50% extra over the cost of chamber.
(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.		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	1834.00
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		
a	500 Kilo litres	Per litre	16.24
b	1000 Kilo litres	Per litre	14.27
c	1500 Kilo litres	Per litre	13.19
d	2000 Kilo litres	Per litre	12.48
e	2500 Kilo litres	Per litre	11.82
	1) The above rates are arrived with base rate of Cement Rs.6300/- per MT & Steel for Rs.40,000/- per MT for the month of May-2015		
	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.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by <b>2.50% on basic rate</b> .		
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by <b>1.0% on basic rate</b> .		
	c) For SBC below 10T/sqm , solid raft shall be provided and for solid raft the rate shall be increased by <b>10% on basic rates</b>		
	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-6300) x 0.00007. 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-40,000) x 0.00002 Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.		
	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%		
	11a)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.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	<b>14) The basic rate is inclusive of following <u>Fixtures</u></b>		
	i) Pipe connections & Specials with D.I materials		
	a) All pipe connections for Inlet, Out let, 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 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 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 Over Flow pipe - 500m dia Scour Pipe - 200mm dia		
	iii) Manhole Frames & Covers		
	a) 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 neap - 4Nos.		
	v) RCC Finial 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 1st 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.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
44	Rates for OHSRs/ELSRs including fixtures with a staging of 12 m for Zone-II Seismic .		
a	Upto 10,000 Litres capacity	Per litre	60.35
b	15,000 Litres capacity	Per litre	41.51
c	20,000 Litres capacity	Per litre	40.79
d	40,000 Litres capacity	Per litre	36.11
e	60,000 Litres capacity	Per litre	27.40
f	1,00,000 Litres capacity	Per litre	25.29
g	2,00,000 Litres capacity	Per litre	22.14
h	3,00,000 Litres capacity	Per litre	20.77
i	4,00,000 Litres capacity	Per litre	18.32
j	4,50,000 Litres capacity	Per litre	15.88
	<b>NOTE:</b> -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.6,300/- per tonne for cement and Rs.40,000/- per tonne for steel.		
	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-6300) x 0.00007 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-40000) x 0.00002 Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.		
	7) Rate inclusive of three coates 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 of Seismic Zone. 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) spiral staircase on the outside shall be provided upto 200KL ELSR. Above 200KL ELSR Capacity dog legged staircase shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing upto 1.0 height.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	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.		
	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 railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20mts.		
	l)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.		
	m) D.I swan neck ventilators shall be provided in top dome and slab.		
	n) 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, compatible with SCADA arrangement, duly following relevant IS codes in the design of plant components including trial running for 90 days etc., complete.		
	1) 2.0 Mld	Per litre	4.83
	2) 5.0 Mld	Per litre	3.87
	3) 10.0 Mld	Per litre	3.32
	4) 20.0 Mld	Per litre	2.84
	5) 30.00 mld and above	Per litre	2.50
	<b>NOTE :-</b>		
	a) For intermediate capacities proportional rates may be adopted		
	b) The above rates are applicable with cement @ rate of Rs.6,300/-MT and steel of Rs. 40,000/MT.		
	c)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-6300) x 0.00007 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-40000) x 0.00002 Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.		
	e) For Rural areas an extra allowance of 10% shall be given on basic rate		
	The components of the filtration plant will include the following		
	A) Civil Works (All works of VRCC Shall be in M30 design mix)		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	1) Stilling Chamber including Aeration cascade		
	2) Settling chamber shall be provided for 10 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 arrangement including SS shaft & SS Blades with gear wheel arrangements etc, Using 304L Grade Steel.		
	5) Clariflocculator / 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.,		
	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 component such as from Flash mixer to Clariflocculator/ 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 Clariflocculator by gravity to disposal point.		
	Additional specifications		
	12) Railing for all the components (Clariflocculator, 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 horizontal, 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 1.80m 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 standard 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.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	20) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.		
	21A) Chlorinator : Vacuum type chlorinator shall be provided with following specifications: a) Vacuum operated solution feeding type Vacuum 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 consist of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacuum 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.		
	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 <sup>3</sup> /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		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	<p>-Chlorine Solution line with fitting from ejector delivery upto Dosing point: MOC: PVC , MAKE : Dutron , dia : 15 mm , Rating : 10 Bar</p> <p>- Diffuser for Dosing in Tanks : MOC – PVC , Length : 3 mtrs, Dia :15 mm, Make : Toshcon Jesco</p> <p>6) Empty Toners : Make : ISGEC , Design pressure : 20.63 Kgf/cm2 (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/cm2 (g), Design approval : Lloyd's Register Asia , Tare weight : 620 kgs , Water Capacity :780 kgs , Chlorine Capacity : 928 Kgs</p> <p>7) Roller Support Assembly : MOC : MS Structure without Gun Metal Bushings Duly Painted , Load Capacity : 2 Tons</p>		
	<p>8) Auxiliary Ton Container valves (yoke) with clamps : MOC : Al-Si_Bronze , Monel , PTFE etc, Rating : 35 Bar , Connection 5/8'' BSP (M)</p> <p>9) Valves and Accessories:</p> <p>-Flexible connector with Isolation Valves : Length: 1.5 m, MOC : Copper , Brass , Connection : 5/8 BSP union(F), Pressure Rating : 15 Bar</p> <p>- Header Line Isolation Valves: MOC: Al-Si-Bronze , Monel , Panel , PTFE etc, Rating : 35 Bar, Connection : 5/8'' BSP (M)</p> <p>- Gas Filter inlet/outlet isolation valve: Size 0.75'' , MOC: CF8M, Rating :18 Bar, End Connection : Flanged ASA 300</p> <p>- Pressure Indicator Isolation valve : MOC : CF8M, Rating : 15 Bar, Connection : 0.75 '' BSP, Seal Material :PTFE</p> <p>- Chlorine Solution Line Isolation Valve : MOC : PVC , Make : Dutron , Size : 15 mm</p> <p>-Diffuser Isolation Valve : MOC : PVC , PTFE , Make : Dutron , Size : 15 mm</p>		
	<p>10) Instruments :</p> <p>- Chlorine Leak Detector Double Alarm sensor with Audio alarm in Building &amp; 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> <p>11) Safety Equipments :</p> <p>- Cansiter Type Respirator with full face Coverage : Make : Grouptech , Accessories : Full Face Mask</p> <p>-Ammonia Bottle with leak torch : Quantity : 500 ml , Make : Merck/Equ</p> <p>- Gloves , Rubber Boots , apron , Google and Helmet : Size : Universal</p> <p>- Emergency Eye wash shower and Basin : Make : J.K Enterprises, MOC: G.I , ABS Plastic , Required Water Pressure : 1 Bar , Inlet Connection : 1.25 ''</p>		
	<p>- 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</p> <p>- Emergency Kit B : Make : J.K Enterprises , Type : B for Tonner</p>		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	<p>12) Chlorine Leak Absorption System :</p> <ul style="list-style-type: none"> <li>- FRP Hood on Tonners : MOC : Isophthalic Resin , Type : Full , Colour : Pigmented Yellow , Thickness : 4 mm</li> <li>- 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</li> <li>- Flex Hose from FRP Hood to ID suction : MOC : PVC, Dia : 4'' , Rating : 10 Bar, Make : Dutron</li> <li>- Flexi Hose from ID fan discharge to Chlorine Gas leak Absorption Pit : MOC : PVC , Dia : 4'' , Rating : 10 Bar, Make : Dutron</li> </ul> <p>Additional Items :</p> <ul style="list-style-type: none"> <li>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</li> <li>2) Control Panel for Chlorine Absorption system</li> </ul>		
	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>B) Mechanical Equipment</b>		
	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.		
	<p>4) Clariflocculation equipment (with stainless steel blades) with rotating bridge arrangement etc.,The equipment consists of following components</p> <ul style="list-style-type: none"> <li>a) Flocculator Drive Mechanisms These will consist of suitable H.P geared electric motor mounted on M S Frame work on bridge platform.</li> <li>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 shafap at the bottom. The paddle area shall be between 10 to 25 % of the cross section of flocculating zone .</li> <li>c) Mechanism for raking in clarifier compartment.</li> </ul>		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	<p>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.</p> <p>e) Bridge Drive The Bridge will be driven by an electrically operated geared motor with suitable H.P</p>		
	<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.</p> <p>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 .</p>		
	5) Stainless steel wheel shall be provided for the bridge clariflocculator.		
	6) Wash water tank fittings and pumpsets with 100% stand by.		
	<p>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</p>		
	<p>A) Materials of Construction :</p> <p>a) Housing : C.I IS 201 FG 260</p> <p>b) Rotor Shaft : S G IRON</p> <p>c) Shaft : EN 19 forged and heat treated</p> <p>d) Timing Gears : Cast Alloy steel ( 20 microns) forged and heat treated .</p> <p>e) Pulley , Gear side , plates and covers : C.I IS 210 FG 260</p> <p>f) V Belts : Reinforced rubber</p> <p>g) Base plate : MS Enamel Painted</p> <p>h) Belt Guard : MS Enamel Painted</p> <p>i) Fasteners : As per IS 1363/ IS 1367</p>		
	8)Spares & Tools and the same shall be handed over after 2 years defect liability period.		
	9) Gaseous Chlorination with cylinders has to be provided with protection measures.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	<b>C) Electrical Equipment</b>		
	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 - Seap 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..		
	<b>D ) Equipment for Flow measurements</b>		
	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.		
	<b>Hardware:</b>		
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out leap with accessories.		
	ii)Electrode Type: General type, Scraper type or replaceable type Electorde 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.		

Sl. No.	Description	Unit	SoR for 2015-16
1	2	3	4
	v) Customised application Requirement: Centralized System with two serial interfaces, 3 Nos of Add-On porap, 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, sendind data to the Web Server, Communication with GPRS , operated with Battery Power of any reputed make or any equivalent make.		
	<b>Software:</b>		
	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 requiremenap:		
	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 Leves, Ratings, Readings in 3 Columns , for each bed of the plant in succesive rows and cumulative resulap 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.,		

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

Sl. No.	Description				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003 , Ex-factory, Excluding transportation, taxes &amp; duties</b>				
	Size	Unit	SoR For 2015-16		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	<b>148</b>		
	100 mm dia	Metre	<b>171</b>		
	150 mm dia	Metre	<b>205</b>		
	200 mm dia	Metre	<b>245</b>		
	225 mm dia	Metre	<b>266</b>		
	250 mm dia	Metre	<b>285</b>		
	300 mm dia	Metre	<b>407</b>	<b>905</b>	<b>928</b>
	350 mm dia	Metre	<b>508</b>	<b>1157</b>	<b>1178</b>
	400 mm dia	Metre	<b>585</b>	<b>1279</b>	<b>1306</b>
	450 mm dia	Metre	<b>716</b>	<b>1461</b>	<b>1475</b>
	500 mm dia	Metre	<b>786</b>	<b>1589</b>	<b>1810</b>
	600 mm dia	Metre	<b>1168</b>	<b>2372</b>	<b>2788</b>
	700 mm dia	Metre	<b>1496</b>	<b>2935</b>	<b>3708</b>
	800 mm dia	Metre	<b>1831</b>	<b>3869</b>	<b>4839</b>
	900 mm dia	Metre	<b>2290</b>	<b>4845</b>	<b>6013</b>
	1000 mm dia	Metre	<b>2771</b>	<b>6026</b>	<b>8197</b>
	1100 mm dia	Metre	<b>3322</b>	<b>7081</b>	<b>9480</b>
	1200 mm dia	Metre	<b>3953</b>	<b>8327</b>	<b>11072</b>
	1400 mm dia	Metre	<b>5359</b>	<b>10767</b>	<b>15291</b>
	1600 mm dia	Metre	<b>6227</b>	<b>13913</b>	<b>18391</b>
	1800 mm dia	Metre	<b>8147</b>	<b>18372</b>	<b>24581</b>

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.6,300/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,000/- 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. 42,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,300/- 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				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>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 &amp; duties</b>				
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2015-16</b>		
			<b>NP - 2 Class</b>	<b>NP - 3 Class</b>	<b>NP - 4 Class</b>
	80 mm dia	Each	<b>45</b>		
	100 mm dia	Each	<b>46</b>		
	150 mm dia	Each	<b>49</b>		
	200 mm dia	Each	<b>65</b>		
	225 mm dia	Each	<b>68</b>		
	250 mm dia	Each	<b>76</b>		
	300 mm dia	Each	<b>100</b>	<b>144</b>	<b>144</b>
	350 mm dia	Each	<b>123</b>	<b>176</b>	<b>176</b>
	400 mm dia	Each	<b>137</b>	<b>202</b>	<b>202</b>
	450 mm dia	Each	<b>214</b>	<b>269</b>	<b>269</b>
	500 mm dia	Each	<b>244</b>	<b>320</b>	<b>320</b>
	600 mm dia	Each	<b>330</b>	<b>418</b>	<b>418</b>
	700 mm dia	Each	<b>426</b>	<b>562</b>	<b>562</b>
	800 mm dia	Each	<b>599</b>	<b>714</b>	<b>714</b>
	900 mm dia	Each	<b>717</b>	<b>833</b>	<b>833</b>
	1000 mm dia	Each	<b>839</b>	<b>1040</b>	<b>1040</b>
	1100 mm dia	Each	<b>1026</b>	<b>1314</b>	<b>1314</b>
	1200 mm dia	Each	<b>1246</b>	<b>1644</b>	<b>1644</b>
	1400 mm dia	Each	<b>1609</b>	<b>2080</b>	<b>2080</b>
	1600 mm dia	Each	<b>2050</b>	<b>2666</b>	<b>2666</b>
	1800 mm dia	Each	<b>2144</b>	<b>3431</b>	<b>3431</b>

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.6,300/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,000/- 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. 42,000/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,300/-, 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				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>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 &amp; duties.</b>				
	Size	Unit	SoR For 2015-16		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	183		
	100 mm dia	Metre	207		
	150 mm dia	Metre	244		
	200 mm dia	Metre	298		
	225 mm dia	Metre	326		
	250 mm dia	Metre	349		
	300 mm dia	Metre	489	1148	1219
	350 mm dia	Metre	628	1509	1532
	400 mm dia	Metre	694	1673	1699
	450 mm dia	Metre	863	1846	1859
	500 mm dia	Metre	992	2105	2277
	600 mm dia	Metre	1404	2947	3027
	700 mm dia	Metre	1821	3739	3910
	800 mm dia	Metre	2318	4939	5102
	900 mm dia	Metre	2911	6189	6393
	1000 mm dia	Metre	3519	7043	7653
	1100 mm dia	Metre	4171	8280	8817
	1200 mm dia	Metre	4738	9752	10305
	1400 mm dia	Metre	6693	12907	14562
	1600 mm dia	Metre	8272	16686	17529
	1800 mm dia	Metre	9360	22032	23418

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.6,300/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,000/- 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  
 $= (S2-S1)/1000 \times W_s$ .

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

S1 = Rs. 42,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs.6,3 00/- , 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				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>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 &amp; duties.</b>				
	Size	Unit	SoR For 2015-16		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Metre	<b>236</b>	<b>267</b>	<b>301</b>
	100 mm dia	Metre	<b>268</b>	<b>318</b>	<b>366</b>
	150 mm dia	Metre	<b>370</b>	<b>474</b>	<b>582</b>
	200 mm dia	Metre	<b>432</b>	<b>615</b>	<b>810</b>
	225 mm dia	Metre	<b>485</b>	<b>699</b>	<b>903</b>
	250 mm dia	Metre	<b>531</b>	<b>750</b>	<b>950</b>
	300 mm dia	Metre	<b>719</b>	<b>1085</b>	<b>1348</b>
	350 mm dia	Metre	<b>896</b>	<b>1502</b>	<b>1944</b>
	400 mm dia	Metre	<b>1062</b>	<b>1983</b>	<b>2558</b>
	450 mm dia	Metre	<b>1145</b>	<b>2346</b>	<b>3164</b>
	500 mm dia	Metre	<b>1506</b>	<b>2566</b>	<b>3608</b>
	600 mm dia	Metre	<b>2062</b>	<b>3817</b>	<b>5026</b>
	700 mm dia	Metre	<b>2731</b>	<b>5031</b>	<b>6414</b>
	800 mm dia	Metre	<b>3423</b>	<b>6021</b>	<b>7799</b>
	900 mm dia	Metre	<b>4138</b>	<b>7117</b>	
	1000 mm dia	Metre	<b>5173</b>	<b>8211</b>	
	1100 mm dia	Metre	<b>6193</b>		
	1200 mm dia	Metre	<b>7315</b>		

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.6,300/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,000/- 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. 42,000/-

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

C1 = Rs. 6,300/-, 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				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>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 &amp; duties. the Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.</b>				
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2015-16</b>		
			<b>NP - 2 Class</b>	<b>NP - 3 Class</b>	<b>NP - 4 Class</b>
	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
<b>2</b>	<b>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 &amp; duties. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.</b>				
	<b>Size</b>		<b>P1 - Class</b>	<b>P2 - Class</b>	<b>P3 - Class</b>
	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
	<b>Size</b>		<b>P1 - Class</b>	<b>P2 - Class</b>	<b>P3 - Class</b>

	450 mm dia	Each	<b>146</b>	<b>202</b>	<b>207</b>
	500 mm dia	Each	<b>191</b>	<b>229</b>	<b>239</b>
	600 mm dia	Each	<b>251</b>	<b>283</b>	<b>288</b>
	700 mm dia	Each	<b>341</b>	<b>374</b>	<b>398</b>
	800 mm dia	Each	<b>433</b>	<b>479</b>	<b>479</b>
	900 mm dia	Each	<b>542</b>	<b>604</b>	
	1000 mm dia	Each	<b>634</b>	<b>729</b>	
	1100 mm dia	Each	<b>762</b>		
	1200 mm dia	Each	<b>1220</b>		

**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**

<b>Sl.No.</b>	<b>Description</b>	<b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b>	<b>Rate for every additional 1 KM lead or part thereof.</b>	<b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b>	<b>Rate for every additional 1 KM lead or part thereof.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>1</b>	<b>Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per metre) SoR for 2015-16</b>				
		<b>NP - 2 Class</b>		<b>NP - 3 Class &amp; NP - 4 Class</b>	
	80 mm dia	<b>3.00</b>	<b>0.13</b>		
	100 mm dia	<b>4.00</b>	<b>0.13</b>		
	150 mm dia	<b>6.00</b>	<b>0.26</b>		
	200 mm dia	<b>8.00</b>	<b>0.26</b>		
	225 mm dia	<b>9.00</b>	<b>0.40</b>		
	250 mm dia	<b>10.00</b>	<b>0.40</b>		
	300 mm dia	<b>14.00</b>	<b>0.53</b>	<b>39.00</b>	<b>1.07</b>
	350 mm dia	<b>20.00</b>	<b>1.20</b>	<b>42.00</b>	<b>1.20</b>
	400 mm dia	<b>22.00</b>	<b>1.33</b>	<b>50.00</b>	<b>1.60</b>
	450 mm dia	<b>29.00</b>	<b>1.60</b>	<b>54.00</b>	<b>1.86</b>
	500 mm dia	<b>31.00</b>	<b>1.86</b>	<b>59.00</b>	<b>1.86</b>
	600 mm dia	<b>45.00</b>	<b>2.93</b>	<b>89.00</b>	<b>4.13</b>
	700 mm dia	<b>57.00</b>	<b>4.13</b>	<b>99.00</b>	<b>4.80</b>
	800 mm dia	<b>67.00</b>	<b>4.13</b>	<b>119.00</b>	<b>4.80</b>
	900 mm dia	<b>77.00</b>	<b>4.13</b>	<b>156.00</b>	<b>9.05</b>
	1000 mm dia	<b>114.00</b>	<b>8.51</b>	<b>188.00</b>	<b>9.05</b>
	1100 mm dia	<b>125.00</b>	<b>8.51</b>	<b>204.00</b>	<b>9.85</b>
	1200 mm dia	<b>142.00</b>	<b>9.05</b>	<b>228.00</b>	<b>9.85</b>
	1400 mm dia	<b>171.00</b>	<b>9.05</b>	<b>310.00</b>	<b>10.25</b>
	1600 mm dia	<b>198.00</b>	<b>9.05</b>	<b>372.00</b>	<b>10.25</b>
	1800 mm dia	<b>228.00</b>	<b>9.05</b>	<b>496.00</b>	<b>14.38</b>

**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	<b>Conveyance of R.C.C. Socket and Spigot pipes on all weather roads including loading, unloading and stacking (per metre of effective length)</b>				
	<b>Size</b>	<b>NP - 2 &amp; P1 Class</b>		<b>NP - 3 &amp; NP - 4 Class</b>	
	80 mm dia	4.00	0.12		
	100 mm dia	4.00	0.24		
	150 mm dia	7.00	0.24		
	200 mm dia	9.00	0.48		
	225 mm dia	10.00	0.48		
	250 mm dia	11.00	1.09		
	300 mm dia	18.00	1.21	46.00	1.45
	350 mm dia	21.00	1.33	50.00	1.69
	400 mm dia	21.00	1.57	62.00	3.15
	450 mm dia	30.00	1.69	68.00	3.15
	500 mm dia	33.00	1.82	75.00	3.39
	600 mm dia	43.00	3.15	101.00	4.84
	700 mm dia	53.00	3.39	136.00	9.56
	800 mm dia	73.00	5.20	161.00	9.56
	900 mm dia	109.00	9.32	186.00	9.56
	1000 mm dia	124.00	9.32	196.00	9.56
	1100 mm dia	140.00	9.56	210.00	9.56
	1200 mm dia	156.00	9.56	235.00	9.80
	1400 mm dia	194.00	9.56	315.00	9.80
	1600 mm dia	230.00	9.80	372.00	10.53
	1800 mm dia	285.00	9.80	496.00	14.40
		<b>P2 - Class</b>		<b>P3 - Class</b>	
	80 mm dia	4.00	0.12	4.00	0.12
	100 mm dia	4.00	0.24	4.00	0.24
	150 mm dia	7.00	0.24	7.00	0.24
	200 mm dia	9.00	0.48	12.00	1.09
	225 mm dia	12.00	1.09	14.00	1.21
	250 mm dia	13.00	1.21	17.00	1.33
	300 mm dia	25.00	1.45	29.00	1.57
	350 mm dia	31.00	1.69	40.00	1.82
	400 mm dia	37.00	1.82	53.00	3.15
	450 mm dia	47.00	3.03	66.00	3.15
	500 mm dia	53.00	3.15	80.00	4.72
	600 mm dia	70.00	3.15	116.00	6.05
	700 mm dia	105.00	6.41	169.00	9.56
	800 mm dia	139.00	9.08	216.00	9.56
	900 mm dia	169.00	9.56		
	1000 mm dia	208.00	9.80		

## 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 the ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR 2015-16 for carrying out O&M works, accordingly the following rates are adopted.

Sl.No	Description					
1	<b>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.</b>					
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2015-16</b>			
			<b>Class - 15</b>	<b>Class - 20</b>	<b>Class - 25</b>	
	80 mm dia	Rate/Metre	198	218	271	
	100 mm dia	Rate/Metre	261	332	408	
	125 mm dia	Rate/Metre	340	424	532	
	150 mm dia	Rate/Metre	478	596	749	
	200 mm dia	Rate/Metre	791	1015	1287	
	250 mm dia	Rate/Metre	1002	1303	1631	
	300 mm dia	Rate/Metre	1402	1830	2339	
	350 mm dia	Rate/Metre	1708	2221	2803	
	400 mm dia	Rate/Metre	2219	2906	3607	
	450 mm dia	Rate/Metre	2641	3508	4391	
	500 mm dia	Rate/Metre	3255	4287	5382	
	600 mm dia	Rate/Metre	4631	6052	7711	
	700 mm dia	Rate/Metre	6085	8255	10674	
	750 mm dia	Rate/Metre	6935	9529	12213	
	800 mm dia	Rate/Metre	7935	10796	13856	
	850 mm dia	Rate/Metre	8901	12145	15602	
	900 mm dia	Rate/Metre	9923	13569	17452	
	1000 mm dia	Rate/Metre	12249	16658	21461	
2	<b>Lowering, laying and jointing of A.C* 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</b>					
	80 mm dia	Rate/Metre		35.00	35.00	
	100 mm dia	Rate/Metre	52.00	52.00	52.00	
	125 mm dia	Rate/Metre	57.00	57.00	57.00	
	150 mm dia	Rate/Metre	68.00	68.00	68.00	
	200 mm dia	Rate/Metre	89.00	89.00	89.00	
	250 mm dia	Rate/Metre	107.00	107.00	107.00	
	300 mm dia	Rate/Metre	132.00	132.00	132.00	
	350 mm dia	Rate/Metre	224.00	224.00	224.00	

	400 mm dia	Rate/Metre		<b>336.00</b>	<b>336.00</b>	<b>336.00</b>
	450 mm dia	Rate/Metre		<b>409.00</b>	<b>409.00</b>	<b>409.00</b>
	500 mm dia	Rate/Metre		<b>520.00</b>	<b>520.00</b>	<b>520.00</b>
	600 mm dia	Rate/Metre		<b>559.00</b>	<b>559.00</b>	<b>559.00</b>
	700 mm dia	Rate/Metre		<b>624.00</b>	<b>624.00</b>	<b>624.00</b>
	750 mm dia	Rate/Metre		<b>694.00</b>	<b>694.00</b>	<b>694.00</b>
	800 mm dia	Rate/Metre		<b>730.00</b>	<b>730.00</b>	<b>730.00</b>
	850 mm dia	Rate/Metre		<b>779.00</b>	<b>779.00</b>	<b>779.00</b>
	900 mm dia	Rate/Metre		<b>850.00</b>	<b>850.00</b>	<b>850.00</b>
	1000 mm dia	Rate/Metre		<b>875.00</b>	<b>875.00</b>	<b>875.00</b>
	<p>1. The above rates of AC Pipes are based on the Cement cost of Rs 6,300/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 75,500/- per M.T (Excluding all taxes &amp; 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><math>W \times 0.85 \times IC</math> 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><math>W \times 0.15 \times IF</math> Where : W=: Weight of pipe in Kg's/Rmt  IF = Increase /Decrease in cost of fiber/Kg</p>					
<b>Note:</b>	<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>					
<b>2</b>	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).				10% on the basic cost of corresponding AC Pressure pipes.	

**\*Under any Circumstances the AC pipes shall not be procured for laying new water lines for any diameter of less than 100mm, 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 the ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR 2015-16 for carrying out O&M works, accordingly the following rates are adopted.

Sl. No.	Description				
1	2				
1	<b>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.</b>				
	Size	Unit	SoR For 2015-16		
0			Class - 15	Class - 20	Class – 25
	80 mm dia	Rate/Each	92	99	114
	100 mm dia	Rate/Each	119	129	155
	125 mm dia	Rate/Each	149	165	199
	150 mm dia	Rate/Each	175	219	270
	200 mm dia	Rate/Each	321	354	450
	250 mm dia	Rate/Each	376	475	604
	300 mm dia	Rate/Each	490	637	819
	350 mm dia	Rate/Each	635	820	1046
	400 mm dia	Rate/Each	978	1277	1632
	450 mm dia	Rate/Each	1171	1544	1979
	500 mm dia	Rate/Each	1396	1866	2381
	600 mm dia	Rate/Each	1725	2170	2776
	<b>700 mm dia</b>	Rate/Each	<b>2266</b>	<b>3050</b>	<b>3966</b>
	<b>750 mm dia</b>	Rate/Each	<b>2556</b>	<b>3494</b>	<b>4509</b>
	<b>800 mm dia</b>	Rate/Each	<b>2899</b>	<b>3931</b>	<b>5087</b>
	<b>850 mm dia</b>	Rate/Each	<b>3230</b>	<b>4397</b>	<b>5702</b>
	<b>900 mm dia</b>	Rate/Each	<b>3574</b>	<b>4888</b>	<b>6347</b>
	<b>1000 mm dia</b>	Rate/Each	<b>4362</b>	<b>5944</b>	<b>7746</b>

1. The above rates of AC Coupling are based on the Cement cost of RS 6,300/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 75,500/- 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.

**\*Under any Circumstances the AC pipes shall not be procured for laying new water lines for any diameter of less than 100mm, except O&M works.**

#### 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 the ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate A.C pipes rates in SoR 2015-16 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 2015-16			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Each Set	68.00	68.00	68.00	
	100 mm dia	Each Set	83.00	83.00	83.00	
	125 mm dia	Each Set	108.00	108.00	108.00	
	150 mm dia	Each Set	136.00	136.00	136.00	
	200 mm dia	Each Set	142.00	142.00	142.00	
	250 mm dia	Each Set	164.00	164.00	164.00	
	300 mm dia	Each Set	164.00	164.00	164.00	
	350 mm dia	Each Set	186.00	186.00	186.00	
	400 mm dia	Each Set	228.00	228.00	228.00	
	450 mm dia	Each Set	267.00	267.00	267.00	
	500 mm dia	Each Set	309.00	309.00	309.00	
	600 mm dia	Each Set	350.00	350.00	350.00	
	700 mm dia	Each Set	727.00	727.00	727.00	
	750 mm dia	Each Set	755.00	755.00	755.00	
	800 mm dia	Each Set	811.00	811.00	811.00	
	850 mm dia	Each Set	904.00	904.00	904.00	
	900 mm dia	Each Set	950.00	950.00	950.00	
	1000 mm dia	Each Set	1053.00	1053.00	1053.00	

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

**\*Under any Circumstances the AC pipes shall not be procured for laying of new water lines for any diameter of less than 100mm, except O&M works.**

## 11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2015-16

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.(the manufacture shall design the pipes as per the IS Code 784-2001)							
	Size	Unit	SoR For 2015-16.					
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			6 Kg/cm2	8 Kg/cm2	10 Kg/cm2	12 Kg/cm2	14 Kg/cm2	16 Kg/cm2
	350 MM DIA	Metre	2901	2911	2925	2941	3001	3104
	400 MM DIA	Metre	3121	3144	3179	3222	3282	3332
	450 MM DIA	Metre	3338	3355	3394	3461	3549	3625
	500 MM DIA	Metre	3613	3630	3660	3741	3819	3931
	600 MM DIA	Metre	4156	4188	4233	4366	4505	4642
	700 MM DIA	Metre	5094	5118	5201	5326	5513	5671
	800 MM DIA	Metre	6014	6078	6235	6385	6638	6875
	900 MM DIA	Metre	6977	7034	7194	7493	7783	8308
	1000 MM DIA	Metre	8192	8267	8501	8838	9251	9735
	1100 MM DIA	Metre	9307	9444	9708	10231	10680	11179
	1200 MM DIA	Metre	10335	10514	11052	11554	12215	13179
	1300 MM DIA	Metre	11724	12372	13034	13706	14859	16190
	1400 MM DIA	Metre	13368	14117	14900	16152	17443	18363
	1500 MM DIA	Metre	15575	16459	17343	18782	20219	21265
	1600 MM DIA	Metre	17533	18542	19552	22097	22877	24061
	1700 MM DIA	Metre	18461	19200	20201	22678	25066	26461
	1800 MM DIA	Metre	19973	21233	22406	24592	27172	28687
	1900 MM DIA	Metre	21328	22494	24485	25879	28114	31475
	2000 MM DIA	Metre	23457	24906	26232	28786	32730	35283
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
<b>3</b>	<b>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)</b>							
	350 MM DIA	PerKM/M	1.40	1.40	1.40	1.40	1.40	1.40
	400 MM DIA	PerKM/M	1.40	1.40	1.40	1.40	1.40	1.40
	450 MM DIA	PerKM/M	1.70	1.70	1.70	1.70	1.70	1.70
	500 MM DIA	PerKM/M	1.80	1.80	1.80	1.80	1.80	1.80
	600 MM DIA	PerKM/M	2.00	2.00	2.00	2.00	2.00	2.00
	700 MM DIA	PerKM/M	3.30	3.30	3.30	3.30	3.30	3.30
	800 MM DIA	PerKM/M	3.30	3.30	3.30	3.30	3.30	3.30
	900 MM DIA	PerKM/M	3.30	3.30	3.30	3.30	3.30	3.30
	1000 MM DIA	PerKM/M	5.30	5.30	5.30	5.30	5.30	5.30
	1100 MM DIA	PerKM/M	5.30	5.30	5.30	5.30	5.30	5.30

	1200 MM DIA	PerKM/M	10.10	10.10	10.10	10.10	10.10	10.10
	1300 MM DIA	PerKM/M	10.20	10.20	10.20	10.20	10.20	10.20
	1400 MM DIA	PerKM/M	10.20	10.20	10.20	10.20	10.20	10.20
	1500 MM DIA	PerKM/M	10.20	10.20	10.20	10.20	10.20	10.20
	1600 MM DIA	PerKM/M	11.40	11.40	11.40	11.40	11.40	11.40
	1700 MM DIA	PerKM/M	11.40	11.40	11.40	11.40	11.40	11.40
	1800 MM DIA	PerKM/M	11.70	11.70	11.70	11.70	11.70	11.70
	1900 MM DIA	PerKM/M	12.20	12.20	12.20	12.20	12.20	12.20
	2000 MM DIA	PerKM/M	12.20	12.20	12.20	12.20	12.20	12.20
<b>4</b>	<b>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.</b>							
	350 MM DIA	Per Pair	12236	12236	12236	12236	12236	12236
	400 MM DIA	Per Pair	14035	14035	14035	14035	14035	14035
	450 MM DIA	Per Pair	15833	15833	15833	15833	15833	15833
	500 MM DIA	Per Pair	17633	17633	17633	17633	17633	17633
	600 MM DIA	Per Pair	21161	21161	21161	21161	21161	21161
	700 MM DIA	Per Pair	24759	24759	24759	24759	24759	24759
	800 MM DIA	Per Pair	28358	28358	28358	28358	28358	28358
	900 MM DIA	Per Pair	31956	31956	31956	31956	31956	31956
	1000 MM DIA	Per Pair	35267	35267	35267	35267	35267	35267
	1100 MM DIA	Per Pair	38866	38866	38866	38866	38866	38866
	1200 MM DIA	Per Pair	42464	42464	42464	42464	42464	42464
	1300 MM DIA	Per Pair	45775	45775	45775	45775	45775	45775
	1400 MM DIA	Per Pair	53980	53980	53980	53980	53980	53980
	1500 MM DIA	Per Pair	63337	63337	63337	63337	63337	63337
	1600 MM DIA	Per Pair	70534	70534	70534	70534	70534	70534
	1700 MM DIA	Per Pair	79145	79145	79145	79145	79145	79145

	1800 MM DIA	Per Pair	<b>90452</b>	<b>90452</b>	<b>90452</b>	<b>90452</b>	<b>90452</b>	<b>90452</b>
	1900 MM DIA	Per Pair	<b>104584</b>	<b>104584</b>	<b>104584</b>	<b>104584</b>	<b>104584</b>	<b>104584</b>
	2000 MM DIA	Per Pair	<b>125784</b>	<b>125784</b>	<b>125784</b>	<b>125784</b>	<b>125784</b>	<b>125784</b>
<b>5</b>	<b>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.</b>							
	Diameter and thickness	Unit	Rate	Diameter and thickness	Unit	Rate		
	80 mm diax 15 mm thick	Each Flange	<b>784</b>	500mm diax 20 mm thick	Each Flange	<b>7927</b>		
	100 mm diax 15 mm thick	Each Flange	<b>1069</b>	600 mm diax 20 mm thick	Each Flange	<b>9978</b>		
	125 mm diax 15 mm thick	Each Flange	<b>1284</b>	700 mm diax 25 mm thick	Each Flange	<b>14113</b>		
	150 mm diax 15 mm thick	Each Flange	<b>1711</b>	750 mm diax 25 mm thick	Each Flange	<b>15539</b>		
	200 mm diax 15 mm thick	Each Flange	<b>2138</b>	800 mm diax 25 mm thick	Each Flange	<b>17391</b>		
	250 mm diax 15 mm thick	Each Flange	<b>2780</b>	900 mm diax 25 mm thick	Each Flange	<b>19957</b>		
	300 mm diax 15 mm thick	Each Flange	<b>3149</b>	1000 mm diax 25 mm thick	Each Flange	<b>23520</b>		
	350 mm diax 18 mm thick	Each Flange	<b>4590</b>	1050 mm diax 25 mm thick	Each Flange	<b>24918</b>		
	400 mm diax 18 mm thick	Each Flange	<b>5730</b>	1100 mm diax 25 mm thick	Each Flange	<b>26941</b>		
	450 mm diax 18 mm thick	Each Flange	<b>6657</b>	1200 mm diax 32 mm thick	Each Flange	<b>35780</b>		

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.59,500/-MT (Basic+ CED+ST & freight).

and cement price of Rs.6,300/- 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. 59,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,300/- 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 2015-16

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 2015-16								
			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	5299	5299	5299	5299	5326	5383	5479	5570	5640
	450 MM DIA	Meter	5760	5760	5760	5787	5856	5940	6061	6144	6240
	500 MM DIA	Meter	6297	6297	6311	6401	6477	6583	6682	6831	6941
	600 MM DIA	Meter	7490	7546	7646	7779	7902	8026	8216	8392	8570
	700 MM DIA	Meter	8658	8795	8960	9135	9301	9462	9665	9924	10118
	800 MM DIA	Meter	10175	10366	10596	10826	11036	11250	11512	11788	12106
	900 MM DIA	Meter	12064	12308	12593	12880	13167	13425	13773	14117	14460
	1000 MM DIA	Meter	13990	14317	14660	15015	15367	15660	16067	16487	16919
	1100 MM DIA	Meter	15571	15960	16373	16745	17137	17495	17942	18413	19446
	1200 MM DIA	Meter	17661	18115	18576	19035	19506	19927	20449	21483	22221
	1300 MM DIA	Meter	19663	20189	20724	21260	21810	22294	23529	24187	25014
	1400 MM DIA	Meter	21578	22176	22801	23428	24052	25287	26053	26835	28573
	1500 MM DIA	Meter	23698	24365	25034	25692	27075	27835	28983	30690	32692
	1600 MM DIA	Meter	26725	27468	28227	29643	30505	31367	33513	34466	35392
	1700 MM DIA	Meter	28791	29652	30564	32187	33163	34989	36634	37666	38643
	1800 MM DIA	Meter	31566	32470	34239	35336	36407	38420	40175	41414	42653
	1900 MM DIA	Meter	36864	37895	39868	41033	43117	44774	46395	47771	49071
	2000 MM DIA	Meter	39362	41316	42641	44004	46383	47823	50049	51630	53033
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	<b>449</b>								
	450 MM DIA	Meter	<b>528</b>								
	500 MM DIA	Meter	<b>575</b>								
	600 MM DIA	Meter	<b>673</b>								
	700 MM DIA	Meter	<b>767</b>								
	800 MM DIA	Meter	<b>880</b>								
	900 MM DIA	Meter	<b>992</b>								
	1000 MM DIA	Meter	<b>1087</b>								
	1100 MM DIA	Meter	<b>1232</b>								
	1200 MM DIA	Meter	<b>1344</b>								
	1300 MM DIA	Meter	<b>1439</b>								
	1400 MM DIA	Meter	<b>1584</b>								
	1500 MM DIA	Meter	<b>1758</b>								
	1600 MM DIA	Meter	<b>1903</b>								
	1700 MM DIA	Meter	<b>2143</b>								
	1800 MM DIA	Meter	<b>2272</b>								
	1900 MM DIA	Meter	<b>2478</b>								
	2000 MM DIA	Meter	<b>2638</b>								
<b>3</b>	<b>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)</b>										
	400 MM DIA	Per KM/M	<b>1.20</b>								
	450 MM DIA	Per KM/M	<b>1.20</b>								
	500 MM DIA	Per KM/M	<b>1.70</b>								
	600 MM DIA	Per KM/M	<b>1.90</b>								
	700 MM DIA	Per KM/M	<b>3.00</b>								
	800 MM DIA	Per KM/M	<b>3.00</b>								
	900 MM DIA	Per KM/M	<b>3.00</b>								
	1000 MM DIA	Per KM/M	<b>4.80</b>								
	1100 MM DIA	Per KM/M	<b>4.80</b>								
	1200 MM DIA	Per KM/M	<b>9.50</b>								
	1300 MM DIA	Per KM/M	<b>9.50</b>								

	1400 MM DIA	Per KM/M	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	1500 MM DIA	Per KM/M	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	1600 MM DIA	Per KM/M	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	1700 MM DIA	Per KM/M	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40
	1800 MM DIA	Per KM/M	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40
	1900 MM DIA	Per KM/M	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40
	2000 MM DIA	Per KM/M	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10

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

HT Wire: - Rs.59,500/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.44,500/- (including all taxes & freight)

Cement Cost Rs. 6,300/- 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 =  $(H2-H1)/1000 \times Wh$ .

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

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

H1 = Rs. 59,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 44,500/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,300/- 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 2015-16

S N o	Description											
1	2											
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 <sup>2</sup>	14 Kg/cm <sup>2</sup>	16 Kg/cm <sup>2</sup>	18 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>	22 Kg/cm <sup>2</sup>	24 Kg/cm <sup>2</sup>	26 Kg/cm <sup>2</sup>	28 Kg/cm <sup>2</sup>	30 Kg/cm <sup>2</sup>
	250 MM DIA	Meter	2907	2907	2907	2907	2907	2907	2910	2948	2977	3134
	300 MM DIA	Meter	3272	3272	3272	3272	3272	3316	3403	3528	3594	3783
	350 MM DIA	Meter	3964	3964	3964	3984	4022	4064	4166	4313	4437	4637
	400 MM DIA	Meter	4350	4350	4372	4435	4483	4688	4871	5057	5236	5912
	450 MM DIA	Meter	4804	4820	4892	4949	5188	5397	5645	5861	6096	6619
	500 MM DIA	Meter	5370	5435	5514	5775	6054	6344	6649	6911	7371	7842
	600 MM DIA	Meter	7077	7178	7284	7701	8112	8458	8909	9316	9891	10405
	700 MM DIA	Meter	8534	8745	9331	9899	10464	11058	11820	12309	12906	13744
	800 MM DIA	Meter	9700	10462	11188	11895	12643	13616	14414	15508	16250	17286
	900 MM DIA	Meter	11990	12481	13416	14340	15231	15979	17601	18834	19730	21080
	1000 MM DIA	Meter	13540	14809	15870	16931	18056	19667	21498	23002	24248	25997
	1100 MM DIA	Meter	19402	19754	19948	21877	24046	25573	28334	29840	31800	34611
	1200 MM DIA	Meter	21457	22098	22904	25209	27687	29898	32472	33761	37739	41561
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
<b>3</b>	<b>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)</b>											
	250 MM DIA	Per KM/M	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
	300 MM DIA	Per KM/M	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
	350 MM DIA	Per KM/M	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
	400 MM DIA	Per KM/M	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	450 MM DIA	Per KM/M	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
	500 MM DIA	Per KM/M	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
	600 MM DIA	Per KM/M	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
	700 MM DIA	Per KM/M	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	800 MM DIA	Per KM/M	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
	900 MM DIA	Per KM/M	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
	1000 MM DIA	Per KM/M	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
	1100 MM DIA	Per KM/M	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
	1200 MM DIA	Per KM/M	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16

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

HR Plates - Rs. 44,500/- per MT (Basic +CED+ST & freight)

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

Cement Cost Rs. 6,300/- 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 =  $(H2-H1)/1000 \times Wh$ .

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

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

H1 = Rs. 44,500/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 42,500/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,300/- 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 2015-16

Sl.No.	Description	Unit	Thickness 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 shortcreting or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labour charges, transportation to anywhere in T.S, but excluding taxes & duties, etc.			
	500 mm dia	Metre	8.00	8314
			10.00	9763
	600 mm dia	Metre	8.00	9886
			10.00	11610
	700 mm dia	Metre	8.00	11403
	700 mm dia	Metre	10.00	13425
	800 mm dia	Metre	8.00	12923
	800 mm dia	Metre	10.00	15212
	800 mm dia	Metre	12.00	17524
	900 mm dia		8.00	14466
	900 mm dia	Metre	10.00	16989
	900 mm dia	Metre	12.00	19563
	1000 mm dia	Metre	8.00	16053
	1000 mm dia	Metre	10.00	18875
	1000 mm dia	Metre	12.00	21717
	1000 mm dia	Metre	14.00	24507
	1100 mm dia	Metre	10.00	20601
	1100 mm dia	Metre	12.00	23711
	1100 mm dia	Metre	14.00	26800
	1100 mm dia	Metre	16.00	29920
	1200 mm dia	Metre	10.00	22484
	1200 mm dia	Metre	12.00	25864
	1200 mm dia	Metre	14.00	29178
	1200 mm dia	Metre	16.00	32517
	1200 mm dia	Metre	18.00	35872
	1300 mm dia	Metre	10.00	24256
	1300 mm dia	Metre	12.00	27857
	1300 mm dia	Metre	14.00	31478
	1300 MM DIA	Metre	16.00	35128
	1300 MM DIA	Metre	18.00	38751
	1300 MM DIA	Metre	20.00	42381

## Public Health Engineering Items

	1400 MM DIA	Metre	10.00	26052
	1400 MM DIA	Metre	12.00	29965
	1400 MM DIA	Metre	14.00	33853
	1400 MM DIA	Metre	16.00	37756
	1400 MM DIA	Metre	18.00	41653
	1400 MM DIA	Metre	20.00	45595
	1400 MM DIA	Metre	22.00	49483
	1500 MM DIA	Metre	10.00	27863
	1500 MM DIA	Metre	12.00	32048
	1500 MM DIA	Metre	14.00	36158
	1500 MM DIA	Metre	16.00	40284
	1500 MM DIA	Metre	18.00	44492
	1500 MM DIA	Metre	20.00	48647
	1500 MM DIA	Metre	22.00	52904
	1500 MM DIA	Metre	24.00	57059
	1600 MM DIA	Metre	10.00	29712
	1600 MM DIA	Metre	12.00	34111
	1600 MM DIA	Metre	14.00	38574
	1600 MM DIA	Metre	16.00	42965
	1600 MM DIA	Metre	18.00	47393
	1600 MM DIA	Metre	20.00	51815
	1600 MM DIA	Metre	22.00	56290
	1600 MM DIA	Metre	24.00	60806
	1600 MM DIA	Metre	26.00	65290
	1700 MM DIA	Metre	10.00	31433
	1700 MM DIA	Metre	12.00	36195
	1700 MM DIA	Metre	14.00	40883
	1700 MM DIA	Metre	16.00	45493
	1700 MM DIA	Metre	18.00	50276
	1700 MM DIA	Metre	20.00	54964
	1700 MM DIA	Metre	22.00	59652
	1700 MM DIA	Metre	24.00	64443
	1700 MM DIA	Metre	26.00	69184
	1700 MM DIA	Metre	28.00	73924
	1800 MM DIA	Metre	10.00	33313
	1800 MM DIA	Metre	12.00	38311
	1800 MM DIA	Metre	14.00	43253
	1800 MM DIA	Metre	16.00	48173
	1800 MM DIA	Metre	18.00	53128
	1800 MM DIA	Metre	20.00	58131
	1800 MM DIA	Metre	22.00	63139
	1800 MM DIA	Metre	24.00	68094
	1800 MM DIA	Metre	26.00	73142
	1800 MM DIA	Metre	28.00	78158
	1900 MM DIA	Metre	10.00	35092
	1900 MM DIA	Metre	12.00	40338
	1900 MM DIA	Metre	14.00	45560
	1900 MM DIA	Metre	16.00	50732

## Public Health Engineering Items

	1900 MM DIA	Metre	18.00	55960
	1900 MM DIA	Metre	20.00	61235
	1900 MM DIA	Metre	22.00	66497
	1900 MM DIA	Metre	24.00	71725
	1900 MM DIA	Metre	26.00	77041
	1900 MM DIA	Metre	28.00	82316
	2000 MM DIA	Metre	10.00	36854
	2000 MM DIA	Metre	12.00	42380
	2000 MM DIA	Metre	14.00	47864
	2000 MM DIA	Metre	16.00	53313
	2000 MM DIA	Metre	18.00	58842
	2000 MM DIA	Metre	20.00	64330
	2000 MM DIA	Metre	22.00	69865
	2000 MM DIA	Metre	24.00	75407
	2000 MM DIA	Metre	26.00	80935
	2000 MM DIA	Metre	28.00	86477
	2000 MM DIA	Metre	30.00	92067
	2100 MM DIA	Metre	12.00	44485
	2100 MM DIA	Metre	14.00	50239
	2100 MM DIA	Metre	16.00	55941
	2100 MM DIA	Metre	18.00	61704
	2100 MM DIA	Metre	20.00	67497
	2100 MM DIA	Metre	22.00	73293
	2100 MM DIA	Metre	24.00	79100
	2100 MM DIA	Metre	26.00	84904
	2100 MM DIA	Metre	28.00	90712
	2100 MM DIA	Metre	30.00	96560
	2100 MM DIA	Metre	32.00	102409
	2100 MM DIA	Metre	34.00	108278
	2200 MM DIA	Metre	12.00	46529
	2200 MM DIA	Metre	14.00	52537
	2200 MM DIA	Metre	16.00	58522
	2200 MM DIA	Metre	18.00	64583
	2200 MM DIA	Metre	20.00	70645
	2200 MM DIA	Metre	22.00	76666
	2200 MM DIA	Metre	24.00	82736
	2200 MM DIA	Metre	26.00	88852
	2200 MM DIA	Metre	28.00	94873
	2200 MM DIA	Metre	30.00	100988
	2200 MM DIA	Metre	32.00	107110
	2200 MM DIA	Metre	34.00	113279
	2200 MM DIA	Metre	36.00	119353
	2300 MM DIA	Metre	12.00	48589
	2300 MM DIA	Metre	14.00	54865
	2300 MM DIA	Metre	16.00	61148
	2300 MM DIA	Metre	18.00	67476
	2300 MM DIA	Metre	20.00	73772
	2300 MM DIA	Metre	22.00	80100
	2300 MM DIA	Metre	24.00	86429
	2300 MM DIA	Metre	26.00	92810
	2300 MM DIA	Metre	28.00	99105

## Public Health Engineering Items

2300 MM DIA	Metre	30.00	105487
2300 MM DIA	Metre	32.00	111869
2300 MM DIA	Metre	34.00	118304
2300 MM DIA	Metre	36.00	124695
2400 MM DIA	Metre	12.00	50616
2400 MM DIA	Metre	14.00	57156
2400 MM DIA	Metre	16.00	63664
2400 MM DIA	Metre	18.00	70322
2400 MM DIA	Metre	20.00	76863
2400 MM DIA	Metre	22.00	83458
2400 MM DIA	Metre	24.00	90115
2400 MM DIA	Metre	26.00	96710
2400 MM DIA	Metre	28.00	103318
2400 MM DIA	Metre	30.00	109913
2400 MM DIA	Metre	32.00	116569
2400 MM DIA	Metre	34.00	123271
2400 MM DIA	Metre	36.00	129917
2500 MM DIA	Metre	14.00	59544
2500 MM DIA	Metre	16.00	66303
2500 MM DIA	Metre	18.00	73165
2500 MM DIA	Metre	20.00	80027
2500 MM DIA	Metre	22.00	86950
2500 MM DIA	Metre	24.00	93812
2500 MM DIA	Metre	26.00	100674
2500 MM DIA	Metre	28.00	107589
2500 MM DIA	Metre	30.00	114416
2500 MM DIA	Metre	32.00	121331
2500 MM DIA	Metre	34.00	128298
2500 MM DIA	Metre	36.00	135213
2600 MM DIA	Metre	14.00	61891
2600 MM DIA	Metre	16.00	68915
2600 MM DIA	Metre	18.00	75998
2600 MM DIA	Metre	20.00	83126
2600 MM DIA	Metre	22.00	90255
2600 MM DIA	Metre	24.00	97437
2600 MM DIA	Metre	26.00	104572
2600 MM DIA	Metre	28.00	111754
2600 MM DIA	Metre	30.00	118882
2600 MM DIA	Metre	32.00	126062
2600 MM DIA	Metre	34.00	133252
2600 MM DIA	Metre	36.00	140486
2600 MM DIA	Metre	38.00	147668
2600 MM DIA	Metre	40.00	154902
2600 MM DIA	Metre	42.00	162145
2700 MM DIA	Metre	18.00	78908
2700 MM DIA	Metre	20.00	86248
2700 MM DIA	Metre	22.00	93643
2700 MM DIA	Metre	24.00	101046
2700 MM DIA	Metre	26.00	108481
2700 MM DIA	Metre	28.00	115984

## Public Health Engineering Items

	2700 MM DIA	Metre	30.00	123430
	2700 MM DIA	Metre	32.00	130833
	2700 MM DIA	Metre	34.00	138282
	2700 MM DIA	Metre	36.00	145783
	2700 MM DIA	Metre	38.00	153239
	2700 MM DIA	Metre	40.00	160740
	2700 MM DIA	Metre	42.00	168188
	2800 MM DIA	Metre	18.00	81732
	2800 MM DIA	Metre	20.00	89401
	2800 MM DIA	Metre	22.00	97062
	2800 MM DIA	Metre	24.00	104725
	2800 MM DIA	Metre	26.00	112386
	2800 MM DIA	Metre	28.00	120095
	2800 MM DIA	Metre	30.00	127863
	2800 MM DIA	Metre	32.00	135524
	2800 MM DIA	Metre	34.00	143239
	2800 MM DIA	Metre	36.00	150961
	2800 MM DIA	Metre	38.00	158729
	2800 MM DIA	Metre	40.00	166444
	2800 MM DIA	Metre	42.00	174253
	2900 MM DIA	Metre	18.00	84688
	2900 MM DIA	Metre	20.00	92563
	2900 MM DIA	Metre	22.00	100491
	2900 MM DIA	Metre	24.00	108426
	2900 MM DIA	Metre	26.00	116352
	2900 MM DIA	Metre	28.00	124321
	2900 MM DIA	Metre	30.00	132302
	2900 MM DIA	Metre	32.00	140238
	2900 MM DIA	Metre	34.00	148273
	2900 MM DIA	Metre	36.00	156296
	2900 MM DIA	Metre	38.00	164330
	2900 MM DIA	Metre	40.00	172318
	2900 MM DIA	Metre	42.00	180353
	3000 MM DIA	Metre	18.00	87474
	3000 MM DIA	Metre	20.00	95709
	3000 MM DIA	Metre	22.00	103858
	3000 MM DIA	Metre	24.00	112051
	3000 MM DIA	Metre	26.00	120246
	3000 MM DIA	Metre	28.00	128481
	3000 MM DIA	Metre	30.00	136737
	3000 MM DIA	Metre	32.00	144931
	3000 MM DIA	Metre	34.00	153220
	3000 MM DIA	Metre	36.00	161522
	3000 MM DIA	Metre	38.00	169777
	3000 MM DIA	Metre	40.00	178078
	3000 MM DIA	Metre	42.00	186367

2	<b>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</b>			
	500 mm dia	Metre	8.00	783
	500 mm dia		10.00	802
	600 mm dia	Metre	8.00	967
	600 mm dia		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
	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

## Public Health Engineering Items

	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
	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
	1800 MM DIA	Metre	22.00	3314
	1800 MM DIA	Metre	24.00	3449
	1800 MM DIA	Metre	26.00	3595
	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
	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

## Public Health Engineering Items

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
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
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
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
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
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
2600 MM DIA	Metre	14.00	8805
2600 MM DIA	Metre	16.00	8932
2600 MM DIA	Metre	18.00	9069

## Public Health Engineering Items

2600 MM DIA	Metre	20.00	9232
2600 MM DIA	Metre	22.00	9408
2600 MM DIA	Metre	24.00	9597
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 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 "R<sub>1</sub>".

R<sub>1</sub> = Variation (Increase/Decrease) in cost (Rs. Per metre) due to change in cost of MS Plates =  $(M_2 - M_1) / 1000 \times W_m$

M<sub>1</sub> = Rs 41,000/-

M<sub>2</sub> = Cost of MS Plates (Rs. Per MT including all taxes and freight )  
at the time of preparation of estimate

W<sub>m</sub> = 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 2015-16. (PE - 80 Grade)**

Sl.No	Description	4.0 kg/ sqcm
<b>1</b>	<b>2</b>	<b>4</b>
	<b>Manufacture, Supply, &amp; Delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to any where in T.S, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm diain coil &amp; above 90 mm dia straight lengths in 6 m.)</b>	
	<b>Rate per Meter</b>	
	OD 20 mm	-
	OD 25 mm	-
	OD 32 mm	-
	OD 40 mm	<b>43</b>
	OD 50 mm	<b>66</b>
	OD 63 mm	<b>90</b>
	OD 75 mm	<b>122</b>
	OD 90 mm	<b>175</b>
	OD 110 mm	<b>261</b>
	OD 125 mm	<b>337</b>
	OD 140 mm	<b>416</b>
	OD 160 mm	<b>544</b>
	OD 180 mm	<b>687</b>
	OD 200 mm	<b>842</b>
	OD 225 mm	<b>1093</b>
	OD 250 mm	<b>1352</b>
	OD 280 mm	<b>1685</b>
	OD 315 mm	<b>2141</b>
	OD 355 mm	<b>2610</b>
	OD 400 mm	<b>3382</b>
	OD 450 mm	<b>4300</b>
	OD 500 mm	<b>5281</b>
	OD 560 mm	<b>6539</b>
	OD 630 mm	<b>8271</b>
	OD 710 mm	<b>10510</b>
	OD 800 mm	<b>13303</b>
	OD 900 mm	<b>16856</b>
	OD 1000 mm	<b>20757</b>

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.1,11,770/- 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 2015-16. (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	<b>Manufacture, Supply, &amp; Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to any where in T.S, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm dia in coil &amp; above 90 mm dia straight length in 6 m.)</b>					
	<b>Rate per Meter</b>					
	OD 20 mm					32
	OD 25 mm					46
	OD 32 mm			44	57	74
	OD 40 mm		57	68	86	114
	OD 50 mm	70	87	105	134	177
	OD 63 mm	105	134	162	212	273
	OD 75 mm	149	190	229	302	389
	OD 90 mm	212	271	325	429	566
	OD 110 mm	318	404	482	645	813
	OD 125 mm	406	521	626	827	1043
	OD 140 mm	510	652	784	1041	1321
	OD 160 mm	667	849	1021	1356	1709
	OD 180 mm	839	1074	1293	1712	2152
	OD 200 mm	1037	1327	1594	2120	2664
	OD 225 mm	1338	1711	2059	2675	3357
	OD 250 mm	1646	2114	2542	3302	4152
	OD 280 mm	2063	2646	3178	4149	5219
	OD 315 mm	2615	3351	4029	5232	6604
	OD 355 mm	3284	4201	5059	6655	8417
	OD 400 mm	4319	5520	6632	8617	10844
	OD 450 mm	5371	6893	8293	10894	13617
	OD 500 mm	6644	8499	10231	13454	16108
	OD 560 mm	7759	9935	11889	15185	
	OD 630 mm	9785	12570	15061	18071	
	OD 710 mm	12443	15931	19130		
	OD 800 mm	15791	20225	24354		
	OD 900 mm	20005	25603			
	OD 1000 mm	24669				

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.1,12,600/- 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 2015-16.**

	<b>Manufacture, Supply, &amp; Delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to anywhere in T.S. Excluding excise duty, sale tax and specials etc., complete</b>	
<b>I (a)</b>	<b>PIPE ENDS LONG NECK</b>	<b>Rate per Each</b>
	OD 50 mm	<b>85</b>
	OD 63 mm	<b>107</b>
	OD 75 mm	<b>129</b>
	OD 90 mm	<b>166</b>
	OD 110 mm	<b>231</b>
	OD 125 mm	<b>416</b>
	OD 140 mm	<b>420</b>
	OD 160 mm	<b>586</b>
	OD 180 mm	<b>830</b>
	OD 200 mm	<b>1067</b>
	OD 225 mm	<b>1224</b>
	OD 250 mm	<b>1434</b>
	OD 280 mm	<b>1602</b>
	OD 315 mm	<b>1848</b>
	OD 355 mm	<b>3862</b>
	OD 400 mm	<b>5146</b>
	OD 450 mm	<b>8563</b>
	OD 500 mm	<b>9530</b>
<b>(b)</b>	<b>MS FLANGES</b>	<b>Rate per Each</b>
	OD 50 mm	<b>104</b>
	OD 63 mm	<b>131</b>
	OD 75 mm	<b>166</b>
	OD 90 mm	<b>179</b>
	OD 110 mm	<b>188</b>
	OD 125 mm	<b>258</b>
	OD 140 mm	<b>280</b>
	OD 160 mm	<b>367</b>
	OD 180 mm	<b>518</b>
	OD 200 mm	<b>671</b>
	OD 225 mm	<b>838</b>
	OD 250 mm	<b>989</b>
	OD 280 mm	<b>1122</b>
	OD 315 mm	<b>1320</b>
	OD 355 mm	<b>2236</b>
	OD 400 mm	<b>2773</b>

	OD 450 mm	<b>3621</b>
	OD 500 mm	<b>4146</b>
<b>(c)</b>	<b>END CAPS</b>	<b>Rate per Each</b>
	OD 50 mm	<b>57</b>
	OD 63 mm	<b>70</b>
	OD 75 mm	<b>87</b>
	OD 90 mm	<b>115</b>
	OD 110 mm	<b>132</b>
	OD 125 mm	<b>181</b>
	OD 140 mm	<b>212</b>
	OD 160 mm	<b>324</b>
	OD 180 mm	<b>527</b>
	OD 200 mm	<b>575</b>
	OD 225 mm	<b>599</b>
	OD 250 mm	<b>853</b>
	OD 280 mm	<b>873</b>
	OD 315 mm	<b>1192</b>
	OD 355 mm	<b>1839</b>
	OD 400 mm	<b>3216</b>
	OD 450 mm	<b>5172</b>
	OD 500 mm	<b>9530</b>
<b>(d)</b>	<b>REDUCERS</b>	<b>Rate per Each</b>
	OD 50 mm x 63 mm	<b>80</b>
	OD 63 mm x 75 mm	<b>115</b>
	OD 75 mm x 90 mm	<b>188</b>
	OD 90 mm x 110 mm	<b>260</b>
	OD 110 mm x 125 mm	<b>397</b>
	OD 125 mm x 140 mm	<b>549</b>
	OD 140 mm x 160 mm	<b>766</b>
	OD 160 mm x 180 mm	<b>1062</b>
	OD 180 mm x 200 mm	<b>1371</b>
	OD 200 mm x 225 mm	<b>1683</b>
	OD 225 mm x 250 mm	<b>2294</b>
	OD 250 mm x 280 mm	<b>3260</b>
	OD 280 mm x 315 mm	<b>4608</b>
	OD 315 mm x 355 mm	<b>5285</b>
	OD 355 mm x 400 mm	<b>7458</b>
	OD 400 mm x 450 mm	<b>7737</b>

	OD 450 mm x 500 mm	<b>9920</b>
<b>(e)</b>	<b>TEES</b>	<b>Rate per Each</b>
	OD 50 mm	<b>110</b>
	OD 63 mm	<b>176</b>
	OD 75 mm	<b>212</b>
	OD 90 mm	<b>372</b>
	OD 110 mm	<b>441</b>
	OD 125 mm	<b>664</b>
	OD 140 mm	<b>915</b>
	OD 160 mm	<b>1576</b>
	OD 180 mm	<b>2137</b>
	OD 200 mm	<b>2943</b>
	OD 225 mm	<b>4179</b>
	OD 250 mm	<b>5721</b>
	OD 280 mm	<b>8010</b>
	OD 315 mm	<b>11417</b>
	OD 355 mm	<b>16279</b>
	OD 400 mm	<b>23846</b>
	OD 450 mm	<b>33871</b>
	OD 500 mm	<b>46519</b>
<b>(f)</b>	<b>BENDS</b>	<b>Rate per Each</b>
	OD 50 mm	<b>70</b>
	OD 63 mm	<b>154</b>
	OD 75 mm	<b>200</b>
	OD 90 mm	<b>343</b>
	OD 110 mm	<b>452</b>
	OD 125 mm	<b>668</b>
	OD 140 mm	<b>879</b>
	OD 160 mm	<b>1311</b>
	OD 180 mm	<b>1882</b>
	OD 200 mm	<b>2549</b>
	OD 225 mm	<b>3615</b>
	OD 250 mm	<b>4956</b>
	OD 280 mm	<b>7146</b>
	OD 315 mm	<b>9883</b>
	OD 355 mm	<b>13700</b>

	OD 400 mm	20665
	OD 450 mm	30381
	OD 500 mm	41188
<b>II</b>	<p><b>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 &amp; state), inspection charges, transportation upto site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.</b></p>	
	<b>SIZE</b>	<b>Rate Each</b>
	<b>(Main pipe outer diameter in mm &amp; Tapping size in Inches)</b>	<b>Rs.</b>
	63x1/2"	837.00
	63 x3/4"	837.00
	63 x1"	837.00
	63 x1/2"	837.00
	75 x1/2"	837.00
	75 x3/4"	837.00
	75 x1	837.00
	90 x1/2"	837.00
	90 x3/4"	837.00
	90 x1"	837.00
	90 x 1 1/4"	1086.00
	90 x 1 1/2"	1086.00
	90 x2"	1086.00
	110x1/2"	837.00
	110 x3/4"	837.00
	110 x1"	837.00
	110 x 1 1/4"	1086.00
	110x1 1/2"	1086.00
	110x2"	1086.00
	160 x1/2"	837.00
	160 x3/4"	837.00
	160 x1"	837.00
	160 x 1 1/4"	1187.00
	160 x 1 1/2"	1187.00
	160 x 2"	1187.00

## Public Health Engineering Items

200 x 1/2"	<b>1182.00</b>
200 x 3/4"	<b>1182.00</b>
200 x 1"	<b>1182.00</b>
200 x 1 1/4"	<b>1709.00</b>
200 x 2"	<b>1709.00</b>
250 x 1/2"	<b>1182</b>
250 x 3/4"	<b>1182</b>
250 x 1"	<b>1182</b>
250 x 1 1/4"	<b>1709</b>
250 x 1 1/2"	<b>1709</b>
250 x 2"	<b>1709</b>
315 x 1/2"	<b>1408</b>
315 x 3/4"	<b>1408</b>
315 x 1"	<b>1408</b>
315 x 1 1/4"	<b>1911</b>
315 x 1 1/2"	<b>1911</b>
315 x 2"	<b>1911</b>

**18. SoR FOR PVC PIPES FOR THE YEAR 2015-16**

Sl No.	DESCRIPTION	TEST PRESSURE		
		4.0 Kgs/cm <sup>2</sup>	6 Kgs/cm <sup>2</sup>	10 Kgs/cm <sup>2</sup>
1	Manufacture, Supply and Delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (3 <sup>rd</sup> 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.			
	<b>DIA IN MM      Rate/Metre</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>
	20			15
	25			22
	32			34
	40		32	52
	50		48	80
	63	53	77	116
	75	78	105	168
	90	106	152	237
	110	154	220	354
	125	201	281	462
	140	251	362	573
	160	331	469	751
	180	422	604	962
	200	513	735	1171
	225	682	985	1567
	250	793	1209	1907
	280	1038	1527	2413
	315	1314	1919	3046
	355	1728	2508	
	400	2179	3191	

**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.71,214/- 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 2015-16**

<b>Code No</b>	<b>Description</b>	
<b>1</b>	<b>2</b>	<b>4</b>
	<b>Manufacture, Supply, &amp; Delivery of unplasticized Non-pressure polyvinyl chloride(PVC-U) pipes of dark (any shade of brown) for use in underground drainage &amp; 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.S, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Proposed Rates 2015-16</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	<b>278</b>
	OD 200 mm	<b>424</b>
	OD 250mm	<b>657</b>
	OD 315 mm	<b>1036</b>
	<b>Pipe Series (S20)</b>	
	OD 125 mm	<b>216</b>
	OD 160 mm	<b>345</b>
	OD 200 mm	<b>524</b>
	OD 250mm	<b>816</b>
	OD 315 mm	<b>1281</b>
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	<b>190</b>
	OD 125 mm	<b>256</b>
	OD 160 mm	<b>400</b>
	OD 200 mm	<b>622</b>
	OD 250mm	<b>964</b>
	OD 315 mm	<b>1523</b>

**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.71,214/- 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 2015-16**

<b>Code No</b>	<b>Description</b>	
<b>1</b>	<b>2</b>	<b>4</b>
	<b>Manufacture, supply, &amp; delivery of un-plasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage &amp; sewerage system conforming to IS 15328/2003) with Elastomeric Seal Ring Joints (Ringtite PVC Pipes) as per specification inclusive of transportation to the Sub-Divisional stores anywhere in T.S, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Proposed Rates 2015-16</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	<b>298</b>
	OD 200 mm	<b>451</b>
	OD 250mm	<b>701</b>
	OD 315 mm	<b>1103</b>
	<b>Pipe Series (S20)</b>	
	OD 125 mm	<b>232</b>
	OD 160 mm	<b>366</b>
	OD 200 mm	<b>556</b>
	OD 250mm	<b>867</b>
	OD 315 mm	<b>1361</b>
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	<b>202</b>
	OD 125 mm	<b>272</b>
	OD 160 mm	<b>427</b>
	OD 200 mm	<b>658</b>
	OD 250mm	<b>1023</b>
	OD 315 mm	<b>1615</b>

**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.71,214/- 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 2015-16		
			4	5	6
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>I</b>	<b>Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/1989 (third revision) with amdt. No: 1 &amp; 2 in standard lengths of 3.66 m, 4 m, 4.5m, 5 m, 5.5 m &amp; 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 &amp; duties.</b>		<b>LA Class (Rs)</b>	<b>A Class (Rs)</b>	<b>B Class (Rs)</b>
	<b>Nominal dia (in MM)</b>				
	80	Rmt	<b>834</b>	<b>904</b>	<b>972</b>
	100	Rmt	<b>1015</b>	<b>1115</b>	<b>1191</b>
	125	Rmt	<b>1279</b>	<b>1396</b>	<b>1504</b>
	150	Rmt	<b>1549</b>	<b>1697</b>	<b>1829</b>
	200	Rmt	<b>2261</b>	<b>2454</b>	<b>2656</b>
	250	Rmt	<b>3047</b>	<b>3318</b>	<b>3590</b>
	300	Rmt	<b>3929</b>	<b>4298</b>	<b>4655</b>
	350	Rmt	<b>5026</b>	<b>5453</b>	<b>5915</b>
	400	Rmt	<b>6120</b>	<b>6687</b>	<b>7217</b>
	450	Rmt	<b>7405</b>	<b>8136</b>	<b>8775</b>
	500	Rmt	<b>8758</b>	<b>9541</b>	<b>10322</b>
	600	Rmt	<b>11581</b>	<b>12643</b>	<b>13693</b>
	700	Rmt	<b>15246</b>	<b>16657</b>	<b>17996</b>
	750	Rmt	<b>17076</b>	<b>18670</b>	<b>20254</b>
	800	Rmt	<b>19114</b>	<b>20827</b>	<b>22530</b>
	900	Rmt	<b>23293</b>	<b>29103</b>	<b>27538</b>
	1000	Rmt	<b>27985</b>	<b>30568</b>	<b>33040</b>
<b>II</b>	<b>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)</b>		<b>Class</b>		
	<b>SIZE IN MM</b>	<b>UNIT</b>	<b>LA</b>	<b>A</b>	<b>B</b>
	80	Per KM/RMT	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>
	100	Per KM/RMT	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>
	125	Per KM/RMT	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>
	150	Per KM/RMT	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>
	200	Per KM/RMT	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>
	250	Per KM/RMT	<b>0.77</b>	<b>0.77</b>	<b>0.77</b>
	300	Per KM/RMT	<b>1.02</b>	<b>1.14</b>	<b>1.14</b>

350	Per KM/RMT		<b>1.40</b>	<b>1.40</b>	<b>1.52</b>
400	Per KM/RMT		<b>1.65</b>	<b>1.65</b>	<b>1.77</b>
450	Per KM/RMT		<b>1.91</b>	<b>2.04</b>	<b>2.16</b>
500	Per KM/RMT		<b>2.29</b>	<b>2.42</b>	<b>2.54</b>
600	Per KM/RMT		<b>2.29</b>	<b>2.42</b>	<b>2.54</b>
700	Per KM/RMT		<b>2.29</b>	<b>2.42</b>	<b>2.54</b>
750	Per KM/RMT		<b>3.81</b>	<b>4.06</b>	<b>4.32</b>
800	Per KM/RMT		<b>6.48</b>	<b>6.48</b>	<b>6.48</b>
900	Per KM/RMT		<b>6.48</b>	<b>6.48</b>	<b>6.48</b>
1000	Per KM/RMT		<b>6.48</b>	<b>6.48</b>	<b>6.48</b>

**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. 26,000/-

\*The above formula for calculations of revised cost to be used for preparation of Estimates only.

## 22. SoR FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2015-16

Sl. No.	Description	Unit	S.S. Rate for 2015-16	
			4	5
<b>1</b>	<b>2</b>	<b>3</b>		
<b>1</b>	<b>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 &amp; 6 meter for classification K9 &amp; 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 &amp; duties.</b>			
	<b>Nominal Dia in mm</b>	<b>Rmt</b>	<b>K7</b>	<b>K9</b>
	100	Rmt	892	1062
	150	Rmt	1235	1569
	200	Rmt	1722	2095
	250	Rmt	2310	2749
	300	Rmt	2967	3482
	350	Rmt	3734	4340
	400	Rmt	4532	5233
	450	Rmt	5452	6261
	500	Rmt	6498	7284
	600	Rmt	8647	9607
	700	Rmt	11189	12420
	750	Rmt	12537	13938
	800	Rmt	13855	15380
	900	Rmt	16904	18758
	1000	Rmt	20036	22235
	1100	Rmt		23747
	1200	Rmt		27765
<b>2</b>	<b>Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage <u>with plain ends</u> conforming to IS:8329/2000 in standard working lengths of 4, 5, 5.5 &amp; 6 meter for classification K9 &amp; K7 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes &amp; duties.</b>			
	<b>Nominal Dia in mm</b>		<b>K7</b>	<b>K9</b>
	100	Rmt	<b>760</b>	<b>974</b>
	150	Rmt	<b>1095</b>	<b>1430</b>
	200	Rmt	<b>1555</b>	<b>1943</b>
	250	Rmt	<b>2024</b>	<b>2580</b>
	300	Rmt	<b>2665</b>	<b>3264</b>
	350	Rmt	<b>3346</b>	<b>4055</b>
	400	Rmt	<b>4049</b>	<b>4888</b>
	450	Rmt	<b>4850</b>	<b>5776</b>
	500	Rmt	<b>5774</b>	<b>6898</b>
	600	Rmt	<b>7646</b>	<b>8899</b>

	700	Rmt	<b>10129</b>	<b>11290</b>
	750	Rmt	<b>11329</b>	<b>12649</b>
	800	Rmt	<b>12528</b>	<b>13966</b>
	900	Rmt	<b>15149</b>	<b>16888</b>
	1000	Rmt	<b>18010</b>	<b>20077</b>
	1100	Rmt		<b>21329</b>
	1200	Rmt		<b>24828</b>
<b>3</b>	<b>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 &amp; duties.</b>			
	<b>Nominal Dia in mm</b>		<b>1.0 Mt. Length</b>	<b>2.0 Mt. Length</b>
	100	Each	<b>3762</b>	<b>4895</b>
	150	Each	<b>5316</b>	<b>6964</b>
	200	Each	<b>7031</b>	<b>9277</b>
	250	Each	<b>9181</b>	<b>12178</b>
	300	Each	<b>11476</b>	<b>15263</b>
	350	Each	<b>17978</b>	<b>22679</b>
	400	Each	<b>22282</b>	<b>27962</b>
	450	Each	<b>26911</b>	<b>33611</b>
	500	Each	<b>32594</b>	<b>40462</b>
	600	Each	<b>46137</b>	<b>56485</b>
	700	Each	<b>55024</b>	<b>68154</b>
	800	Each	<b>67834</b>	<b>84077</b>
	900	Each	<b>80846</b>	<b>100485</b>
	1000	Each	<b>103926</b>	<b>127319</b>
	1100	Each	<b>120935</b>	<b>145844</b>
			<b>3.0 Mt. Length</b>	<b>4.0 Mt. Length</b>
	100	Each	<b>6026</b>	<b>6600</b>
	150	Each	<b>8613</b>	<b>9569</b>
	200	Each	<b>11527</b>	<b>12975</b>
	250	Each	<b>15176</b>	<b>17142</b>
	300	Each	<b>19043</b>	<b>21634</b>
	350	Each	<b>27382</b>	<b>30020</b>
	400	Each	<b>33642</b>	<b>36391</b>
	450	Each	<b>40309</b>	<b>43461</b>
	500	Each	<b>48330</b>	<b>51944</b>
	600	Each	<b>66832</b>	<b>71128</b>
	700	Each	<b>81286</b>	<b>87104</b>
	800	Each	<b>100316</b>	<b>107595</b>
	900	Each	<b>120125</b>	<b>129140</b>

	1000	Each	<b>150449</b>	<b>160070</b>
	1100	Each	<b>171266</b>	<b>202575</b>
			<b>5.0 Mt. Length</b>	
	100	Each	<b>7707</b>	
	150	Each	<b>11205</b>	
	200	Each	<b>15222</b>	
	250	Each	<b>20136</b>	
	300	Each	<b>25425</b>	
	350	Each	<b>34721</b>	
	400	Each	<b>42064</b>	
	450	Each	<b>50156</b>	
	500	Each	<b>59798</b>	
	600	Each	<b>81451</b>	
	700	Each	<b>100210</b>	
	800	Each	<b>123804</b>	
	900	Each	<b>153144</b>	
	1000	Each	<b>183372</b>	
	1100	Each	<b>217317</b>	
<b>4</b>	<b>Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes</b>		<b>Class</b>	
	<b>SIZE IN MM</b>	<b>UNIT</b>	<b>K7</b>	<b>K9</b>
	100	Per KM/RMT	<b>0.22</b>	<b>0.22</b>
	150	Per KM/RMT	<b>0.33</b>	<b>0.33</b>
	200	Per KM/RMT	<b>0.33</b>	<b>0.44</b>
	250	Per KM/RMT	<b>0.44</b>	<b>0.55</b>
	300	Per KM/RMT	<b>0.66</b>	<b>0.66</b>
	350	Per KM/RMT	<b>0.77</b>	<b>0.88</b>
	400	Per KM/RMT	<b>0.88</b>	<b>0.99</b>
	450	Per KM/RMT	<b>1.10</b>	<b>1.21</b>
	500	Per KM/RMT	<b>1.32</b>	<b>1.43</b>
	600	Per KM/RMT	<b>1.87</b>	<b>1.87</b>
	700	Per KM/RMT	<b>2.75</b>	<b>2.75</b>
	750	Per KM/RMT	<b>3.30</b>	<b>3.30</b>
	800	Per KM/RMT	<b>5.61</b>	<b>5.61</b>
	900	Per KM/RMT	<b>5.61</b>	<b>5.61</b>
	1000	Per KM/RMT	<b>5.61</b>	<b>5.61</b>
	1100	Per KM/RMT	<b>5.61</b>	<b>5.61</b>
	1200	Per KM/RMT	<b>6.00</b>	<b>6.00</b>
<b>5</b>	<b>Supply and Delivery of Polyethylene (PE) Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.</b>			
	<b>DIA IN MM</b>			
	100 MM DIA		RMT	<b>41.00</b>

	150 MM DIA		RMT	<b>50.00</b>
	200 MM DIA		RMT	<b>64.00</b>
	250 MM DIA		RMT	<b>74.00</b>
	300 MM DIA		RMT	<b>81.00</b>
	350 MM DIA		RMT	<b>91.00</b>
	400 MM DIA		RMT	<b>127.00</b>
	450 MM DIA		RMT	<b>127.00</b>
	500 MM DIA		RMT	<b>154.00</b>
	600 MM DIA		RMT	<b>154.00</b>
	700 MM DIA		RMT	<b>200.00</b>
	750 MM DIA		RMT	<b>200.00</b>
	800 MM DIA		RMT	<b>200.00</b>
	900 MM DIA		RMT	<b>227.00</b>
	1000 MM DIA		RMT	<b>227.00</b>
	1100 MM DIA		RMT	<b>227.00</b>
<b>6</b>	<b>Additional price for HAC(high alumina cement motar lining)</b>			
	<b>DIA IN MM</b>			
	100 MM DIA		RMT	<b>55</b>
	150 MM DIA		RMT	<b>73</b>
	200 MM DIA		RMT	<b>89</b>
	250 MM DIA		RMT	<b>106</b>
	300 MM DIA		RMT	<b>114</b>
	350 MM DIA		RMT	<b>130</b>
	400 MM DIA		RMT	<b>178</b>
	450 MM DIA		RMT	<b>178</b>
	500 MM DIA		RMT	<b>220</b>
	600 MM DIA		RMT	<b>220</b>
	700 MM DIA		RMT	<b>282</b>
	750 MM DIA		RMT	<b>282</b>
	800 MM DIA		RMT	<b>282</b>
	900 MM DIA		RMT	<b>322</b>
	1000 MM DIA		RMT	<b>322</b>
	1100 MM DIA		RMT	<b>322</b>
	1200 MM DIA		RMT	<b>322</b>

**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.26,000/-

\*The above formula for calculations of revised cost to be used for preparation of Estimates only.

**23. S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2015-16**

Sl. No.	Description	Unit	
1	2	3	
	<b>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.</b>		
<b>I</b>	DI double socket branch flange Tee		
	Upto 500 x 500 mm dia	Kg	<b>106.00</b>
	Above 500 x 500 mm dia	Kg	<b>119.00</b>
<b>II</b>	DI All Socket Tees		
	Upto 300 x 300 mm dia	Kg	<b>106.00</b>
	Above 300 x 300 mm dia	Kg	<b>119.00</b>
<b>III</b>	DI Double socket Tapers (Reducer)		
	Upto 500 x 450 mm dia	Kg	<b>106.00</b>
	Above 500 x 450 mm dia	Kg	<b>119.00</b>
<b>IV</b>	DI Flanged Socket		
	Upto 500 mm dia	Kg	<b>106.00</b>
	Above 500 mm dia	Kg	<b>119.00</b>
<b>V</b>	DI Flanged Spigot		
	Upto 500 mm dia	Kg	<b>106.00</b>
	Above 500 mm dia	Kg	<b>119.00</b>
<b>VI</b>	DI Double Socket Duck Foot Bend		
	Upto 300mm dia	Kg	<b>106.00</b>
	Above 300mm dia	Kg	<b>119.00</b>
<b>VII</b>	DI Double Flange Duck/Foot bend		
	Upto 300 mm dia	Kg	<b>106.00</b>
	Above 300 mm dia	Kg	<b>119.00</b>
<b>VIII</b>	DI All socket Cross.		
	Upto 300 x 300 mm dia	Kg	<b>106.00</b>
	Above 300 x 300 mm dia	Kg	<b>119.00</b>
<b>IX</b>	DI All Flange Tee		
	Upto 500 x 500 mm dia	Kg	<b>106.00</b>
	Above 500 x 500 mm dia	Kg	<b>119.00</b>
<b>X</b>	DI All Flange Cross		
	Upto 300 x 300 mm dia	Kg	<b>106.00</b>
	Above 300 x 300 mm dia	Kg	<b>119.00</b>
<b>XI</b>	DI Double Flange Reducer		
	Upto 500 x 450 mm dia	Kg	<b>106.00</b>
	Above 500 x 450 mm dia	Kg	<b>119.00</b>

<b>XII</b>	Blank Flange		
	Upto 500 mm dia	Kg	<b>106.00</b>
	Above 500 mm dia	Kg	<b>119.00</b>
<b>XIII</b>	Mechanical Joints		
	Upto 300 mm dia	Kg	<b>106.00</b>
	Above 300 mm dia	Kg	<b>119.00</b>
<b>XIV</b>	DI Double Socket Bends		
	Upto 500mm dia	Kg	<b>106.00</b>
	Above 500 mm dia	Kg	<b>119.00</b>
<b>XV</b>	DI Double Flanged Bends		
	Upto 500mm dia	Kg	<b>106.00</b>
	Above 500 mm dia	Kg	<b>119.00</b>

**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**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S.S Rates For 2015-16</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>Manufacture as per BIS:12820/89 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.S. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading &amp; stacking but excluding central excise duty, sales tax, octroi and other Govt. Levies etc., complete.</b>		
	80mm dia	Each	<b>63</b>
	100mm dia	Each	<b>98</b>
	125mm dia	Each	<b>117</b>
	150mm dia	Each	<b>143</b>
	200mm dia	Each	<b>174</b>
	250mm dia	Each	<b>194</b>
	300mm dia	Each	<b>295</b>
	350mm dia	Each	<b>374</b>
	400mm dia	Each	<b>408</b>
	450mm dia	Each	<b>439</b>
	500mm dia	Each	<b>609</b>
	600mm dia	Each	<b>722</b>
	700mm dia	Each	<b>959</b>
	750mm dia	Each	<b>1065</b>
	800mm dia	Each	<b>1277</b>
	900mm dia	Each	<b>1541</b>
	1000mm dia	Each	<b>1686</b>

**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 2015-16

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, Transit risk and delivery anywhere in T.S. for the year 2015-16. Rs.
1	2	3	4
	<b>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.S. Including, loading, unloading, transportation to site of work stacking at site transit risk and package, excluding taxes and duties.</b>	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	<b>73.70</b>

**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.26,000/- 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.

\*The above formula for calculations of revised cost to be used for preparation of Estimates only.

**26. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2015-16**  
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURE				Additional charges for Flanged ended valves
		10 Kgs/cm <sup>2</sup>	15 Kgs/cm <sup>2</sup>	20 Kgs/cm <sup>2</sup>	25 Kgs/cm <sup>2</sup>	
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.					
	<b>DIA IN MM      Rate/Each</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	
	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					
	<b>DIA IN MM      Rate/ Each</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>
	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	<b>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.</b>					
	<b>DIA IN MM      Rate/Each</b>	Rs.	Rs.	Rs.	Rs.	
	100	64263	73904	81293	89419	
	150	97659	112308	123538	135892	
	200	104237	119871	131860	145045	
4	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	<b>10% on basic cost of valves</b>				

**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 2015-16.

Sl.No.	Description	TEST PRESSURES			
1	2	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 / 1989. (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 / 1984. Round body heavy duty material spec. As per IS:1030/1989 with SS Hinge & Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete. Dia in mm.				

	<b>Rate/Each Rs.</b>	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	<b>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 1030/1989 with SS hinges &amp; Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.</b>	PN-20			
		Rate/Each			
	500	440652			
	600	550816			
	700	660979			
	750	815208			
	800	1211796			
	900	1454154			
	1000	1586349			
	1100	1872775			
	1200	1894807			
4	<b>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.</b>				
	<b>DIA IN MM</b>	PN-1.0/1.6	PN-2.5		
	<b>Rate/Each</b>				
	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		
<b>5</b>	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	<b>10% on basic cost of valves</b>			

**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 2015-16.Rate/Each in Rs.

Sl. No.	Description	TEST PRESSURE			
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 GGG40/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 IS:1538.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	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 DI D/F <u>Gate Valves</u> (Soft Seated) Resilient seated soft sealing gate valves (Sluice valves) with body bonnet of ductile cast iron of grade GGG40/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 IS:1538.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	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	

	<b>600 With By-pass &amp; Gear</b>	<b>535531</b>	<b>535531</b>	<b>1006636</b>	
<b>3</b>	<b>Manufacture, Supply and delivery of DI D/F Butterfly Valves with GGG40/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 IS: 1538/ISO</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	<b><u>PN 40</u></b>
	<b>150</b>	<b>82590</b>	<b>82590</b>	<b>85256</b>	<b>113188</b>
	<b>200</b>	<b>89954</b>	<b>92874</b>	<b>109124</b>	<b>137629</b>
	<b>250</b>	<b>104808</b>	<b>107855</b>	<b>126328</b>	<b>192858</b>
	<b>300</b>	<b>125059</b>	<b>128741</b>	<b>143595</b>	<b>202507</b>
	<b>350</b>	<b>143087</b>	<b>156102</b>	<b>181811</b>	<b>220409</b>
	<b>400</b>	<b>180221</b>	<b>204182</b>	<b>237727</b>	<b>336972</b>
	<b>450</b>	<b>197850</b>	<b>219588</b>	<b>279661</b>	
	<b>500</b>	<b>199731</b>	<b>235759</b>	<b>374904</b>	<b>416406</b>
	<b>600</b>	<b>261775</b>	<b>369600</b>	<b>435149</b>	<b>456271</b>
	<b>700</b>	<b>516789</b>	<b>545294</b>	<b>819554</b>	
	<b>800</b>	<b>560262</b>	<b>583871</b>	<b>1196170</b>	
	<b>900</b>	<b>732712</b>	<b>732712</b>		
	<b>1000</b>	<b>918489</b>	<b>918489</b>	<b>1734523</b>	
	<b>1100</b>	<b>1056263</b>			
	<b>1200</b>	<b>1230671</b>	<b>1230671</b>	<b>1937679</b>	
	<b>1400</b>	<b>2644951</b>	<b>2644951</b>		
	<b>1600</b>	<b>3153860</b>	<b>3153860</b>		
	<b>1800</b>	<b>3868391</b>	<b>3868391</b>		
	<b>2000</b>	<b>6608212</b>	<b>6608212</b>		
	<b>2200</b>	<b>9540251</b>	<b>9540251</b>		
<b>4</b>	<b>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 GGG40/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 IS: 1538. Specification and Dimensions as per I.S 5312 or equivalent codes.</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	<b><u>PN 40</u></b>
	<b>100</b>	<b>32726</b>	<b>36362</b>		
	<b>150</b>	<b>54954</b>	<b>61060</b>		

	<b>200</b>	<b>83337</b>	<b>88295</b>	<b>129492</b>	<b>169494</b>
	<b>250</b>	<b>91714</b>	<b>97269</b>	<b>157270</b>	<b>198726</b>
	<b>300</b>	<b>114962</b>	<b>121800</b>	<b>191459</b>	<b>242572</b>
	<b>350</b>	<b>135304</b>	<b>143424</b>	<b>217786</b>	<b>264795</b>
	<b>400</b>	<b>164364</b>	<b>174194</b>	<b>220520</b>	<b>286762</b>
	<b>500</b>	<b>208982</b>	<b>221634</b>	<b>279496</b>	<b>367792</b>
	<b>600</b>	<b>313546</b>	<b>332395</b>	<b>412024</b>	<b>532563</b>
	<b>700</b>	<b>452569</b>	<b>493551</b>	<b>603279</b>	<b>765019</b>
	<b>800</b>	<b>565875</b>	<b>616721</b>	<b>760709</b>	<b>963725</b>
<b>5</b>	<b>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</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>		
	<b>40</b>	<b>5610</b>	<b>5610</b>		
	<b>50</b>	<b>5610</b>	<b>5610</b>		
	<b>65</b>	<b>6071</b>	<b>6071</b>		
	<b>80</b>	<b>6620</b>	<b>7255</b>		
	<b>100</b>	<b>9307</b>	<b>9648</b>		
	<b>125</b>	<b>11696</b>	<b>11696</b>		
	<b>150</b>	<b>15795</b>	<b>16137</b>		
	<b>200</b>	<b>21430</b>	<b>21430</b>		
	<b>250</b>	<b>28518</b>	<b>28518</b>		
	<b>300</b>	<b>40127</b>	<b>40127</b>		
	<b>350</b>	<b>48695</b>	<b>52824</b>		
<b>6</b>	<b>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/NTP Threaded for sizes 25 mm</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	
	<b>25 mm dia</b>	<b>14814</b>	<b>-</b>	<b>-</b>	
	<b>50 mm dia</b>	<b>-</b>	<b>47740</b>	<b>47740</b>	
	<b>80 mm dia</b>	<b>-</b>	<b>74896</b>	<b>74896</b>	
	<b>100 mm dia</b>	<b>-</b>	<b>82583</b>	<b>82583</b>	
	<b>150 mm dia</b>	<b>-</b>	<b>169358</b>	<b>169358</b>	
	<b>200 mm dia</b>	<b>-</b>	<b>254354</b>	<b>254354</b>	
<b>7</b>	<b>Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass &amp; gear operated, for water and sewage applications&amp; dimensions confirming to IS 14846-2000.</b>				

	<b>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</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>		
	<b>DN700</b>	<b>1372190</b>	<b>1372190</b>		
	<b>DN800</b>	<b>1734934</b>	<b>1734934</b>		
	<b>DN 900</b>	<b>1961180</b>	<b>1961180</b>		
	<b>DN 1000</b>	<b>2197338</b>	<b>2197338</b>		
	<b>DN 1100</b>	<b>3403190</b>	<b>3403190</b>		
	<b>DN 1200</b>	<b>2994069</b>	<b>2994069</b>		

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 2015-16**

Sl.No.	Description	Unit	S o R for 2015-16.
1	2	3	4
<b>I</b>	<b>Manufacture as per BIS:12592 (Part 1&amp;2) Supply &amp; Delivery of manhole covers and frames with ISI marking anywhere in T.S., F.O.R. destination including, loading, un-loading &amp; stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable. <u>I.S.I Mark</u></b>		Rs.
a)	M.D. -10 with 500mm diaclear opening	Each	<b>1543</b>
b)	H.D.-20 with 500mm diaclear opening	Each	<b>1989</b>
c)	H.D.-10with 560mmdia clear opening(New item)	Each	<b>1560</b>
d)	H.D.-20 with 560mm diaclear opening	Each	<b>2133</b>
e)	H.D.-35 with 560mm diaclear opening.	Each	<b>2286</b>
f)	24x24 MD 10	Each	<b>1682</b>
g)	24x18 MD 10	Each	<b>1548</b>
h)	24x24 HD 20	Each	<b>1890</b>
i)	24x18 HD 20	Each	<b>1927</b>
j)	Deviders 0.9 mtr.	Each	<b>3957</b>
<b>II</b>	<b>Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in T.S. 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.</b>	Each	<b>166</b>

**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 2015-16**

Sl.No.	Description	Unit	2015-16.
1	2	3	4
1	<b>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.</b>		Rs.
	<b>Nominal Dia. In MM</b>		
	50	Each	<b>4606</b>
	80	Each	<b>5042</b>
	100	Each	<b>6616</b>
	125	Each	<b>8507</b>
	150	Each	<b>9332</b>
	200	Each	<b>13234</b>
	250	Each	<b>15754</b>
	300	Each	<b>25208</b>
2	<b>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</b>	Each	
	<b>Nominal Dia. In MM</b>		
	350		<b>59785</b>
	400		<b>68507</b>
	450		<b>74325</b>
	500		<b>88959</b>
	600		<b>103515</b>
	700		<b>115161</b>
	750		<b>118075</b>
	800		<b>141365</b>
	900		<b>147482</b>
	1000		<b>176660</b>
	1100		<b>191245</b>
	1200		<b>220420</b>
	1300		<b>249592</b>
	1400		<b>279334</b>
	1600		<b>308566</b>
	1800		<b>365405</b>
	2000		<b>454730</b>
3	<b>Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.</b>		5% on basic cost
<b>Note:</b>	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 2015-16**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S.S. Rates for 2015-16.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>319</b>
<b>2</b>	<b>SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>168</b>
<b>3</b>	<b>SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>128</b>
<b>4</b>	<b>SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>		
	a) 3 mm thick	Per Kg	<b>103</b>
	b) 6 mm thick	Per Kg	<b>103</b>
<b>5</b>	<b>SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")</b>	Per Kg	<b>123</b>

**32. S o R FOR RUBBER RINGS SUITABLE FOR  
SWG PIPES FOR THE YEAR 2015-16**

Sl. No.	Description	Unit	S.S Rates For 2015-16
1	2	3	4
1	<b>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.S , 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</b>		
	100 mm dia	Each	<b>53</b>
	150 mm dia	Each	<b>80</b>
	200 mm dia	Each	<b>120</b>
	230 mm dia	Each	<b>146</b>
	250 mm dia	Each	<b>186</b>
	300 mm dia	Each	<b>213</b>
	350 mm dia	Each	<b>253</b>

**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 2015-16**

Sl. No.	Description	Unit	S.S Rates For 2015-16
1	2	3	4
1	<b>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.</b>		
	800 mm dia	Rmt	<b>26000</b>
	900 mm dia	Rmt	<b>27300</b>
	1000 mm dia	Rmt	<b>28600</b>
	1100 mm dia	Rmt	<b>29900</b>
	1200 mm dia	Rmt	<b>31200</b>
	1300 mm dia	Rmt	<b>32500</b>
	1400mm dia	Rmt	<b>35100</b>
	1500 mm dia	Rmt	<b>39000</b>

**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 were not included in SoR 2014-15. The ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate GRP pipes in 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 in SoR 2015-16 for O&M works.

Sl.No.	Description						
<b>1</b>	<b>2</b>						
<b>1</b>	<b>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, unloading and stacking etc., complete but excluding Central Excise duty and to be added sale tax.</b>						
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2015-16 Rs.</b>				
			<b>3 Bar</b>	<b>6 Bar</b>	<b>9 Bar</b>	<b>12 Bar</b>	<b>15 Bar</b>
	300 MM DIA	Metre	<b>2379</b>	<b>2445</b>	<b>2514</b>	<b>2580</b>	<b>2692</b>
	350 MM DIA	Metre	<b>2554</b>	<b>2590</b>	<b>2669</b>	<b>2744</b>	<b>2869</b>
	400 MM DIA	Metre	<b>2843</b>	<b>2970</b>	<b>3080</b>	<b>3222</b>	<b>3349</b>
	450 MM DIA	Metre	<b>3336</b>	<b>3465</b>	<b>3655</b>	<b>3835</b>	<b>4053</b>
	500 MM DIA	Metre	<b>3787</b>	<b>3941</b>	<b>4165</b>	<b>4426</b>	<b>4679</b>
	600 MM DIA	Metre	<b>4830</b>	<b>5030</b>	<b>5335</b>	<b>5878</b>	<b>6152</b>
	700 MM DIA	Metre	<b>5791</b>	<b>6054</b>	<b>6790</b>	<b>7406</b>	<b>7968</b>
	800 MM DIA	Metre	<b>7089</b>	<b>7423</b>	<b>8014</b>	<b>8719</b>	<b>9413</b>
	900 MM DIA	Metre	<b>8861</b>	<b>9238</b>	<b>10035</b>	<b>10884</b>	<b>11787</b>
	1000 MM DIA	Metre	<b>10620</b>	<b>11109</b>	<b>11949</b>	<b>13032</b>	<b>14046</b>
<b>2</b>	<b>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.</b>						
	<b>Size</b>	<b>Unit</b>	<b>S.S. Rates for 2015-16. Rs.</b>				
			<b>3 Bar</b>	<b>6 Bar</b>	<b>9 Bar</b>	<b>12 Bar</b>	<b>15 Bar</b>
	300 mm dia	Metre	<b>107.00</b>	<b>107.00</b>	<b>107.00</b>	<b>107.00</b>	<b>107.00</b>
	350 mm dia	Metre	<b>160.00</b>	<b>160.00</b>	<b>160.00</b>	<b>160.00</b>	<b>160.00</b>
	400 mm dia	Metre	<b>240.00</b>	<b>240.00</b>	<b>240.00</b>	<b>240.00</b>	<b>240.00</b>
	450 mm dia	Metre	<b>293.00</b>	<b>293.00</b>	<b>293.00</b>	<b>293.00</b>	<b>293.00</b>
	500 mm dia	Metre	<b>373.00</b>	<b>373.00</b>	<b>373.00</b>	<b>373.00</b>	<b>373.00</b>
	600 mm dia	Metre	<b>399.00</b>	<b>399.00</b>	<b>399.00</b>	<b>399.00</b>	<b>399.00</b>
	700 mm dia	Metre	<b>452.00</b>	<b>452.00</b>	<b>452.00</b>	<b>452.00</b>	<b>452.00</b>
	800 mm dia	Metre	<b>532.00</b>	<b>532.00</b>	<b>532.00</b>	<b>532.00</b>	<b>532.00</b>
	900 mm dia	Metre	<b>585.00</b>	<b>585.00</b>	<b>585.00</b>	<b>585.00</b>	<b>585.00</b>
	1000 mm dia	Meter	<b>679.00</b>	<b>679.00</b>	<b>679.00</b>	<b>679.00</b>	<b>679.00</b>

**\*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. 77.00/kg (Excluding CED&ST)

2) Chop Glass - Rs. 82.00/kg (Excluding CED&ST)

3) Resin - Rs.130.00/kg (Excluding CED&ST)

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

# **LATEST G.O. ON SEIGNIORAGE CHARGES**

Copy of

**GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT**

Mines and Minerals - Amendments to Rule 10 of the Andhra Pradesh Minor Mineral  
Concession Rules, 1966 - Orders - Issued.

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**INDUSTRIES AND COMMERCE (M.I) DEPARTMENT**

G.O.Ms.No.198.

Dated: 13.08.2009

Read the following:

1. G.O.Ms.No.217, Industries & Commerce (M-I) Dept., dated 29-09-2004.
2. From the Director of Mines & Geology, File No.25395/MR/ 2007, Dated: 29.9.2007.
3. G.O.Ms.No.104, Ind. & Com. (M.I) Department, dt.15.5.2009.

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**ORDER :**

The following notification will be published in the Extra-Ordinary issue of the Andhra Pradesh Gazette dated 13.8.2009.

2. This order shall come into force with immediate effect.

**NOTIFICATION**

In exercise of the powers conferred by sub-section (1) of section 15 of the Mines and Minerals (Development & Regulation) Act,1957 (Central Act 67 of 1957), the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries and Commerce(M-I) Department, dated 04-09-1967 and subsequently amended from time to time.

**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	2	3	4
1	Building Stone	M <sup>3</sup> /MT	Rs.50/33 (Rupees Fifty /Thirty Three)
2	Rough Stone/Boulders	M <sup>3</sup> /MT	Rs. 50/33 (Rupees Fifty /Thirty Three)
3	Road Metal & Ballast	M <sup>3</sup> /MT	Rs. 50/33 (Rupees Fifty /Thirty Three)

3(a)	Dimensional Stone used for Kerbs & Cubes	MT	Rs.88/- (Rupees Eighty Eight)
4	Limekankar / Limestone	MT	The rate of Royalty as applicable to limestone (other than L.D. Grade) in respect of Major Mineral as per the 2nd Schedule of the Mines and Minerals (D&R) Act, 1957.
5	Lime Shell	MT	Rs.88/- (Rupees Eighty Eight)
6	Marble	M <sup>3</sup> /MT	Rs. 165/66 (Rupees One hundred and Sixty Five/Sixty Six)
7	Mosaic Chips	MT	Rs. 44/- (Rupees Forty Four)
8	Muram/Gravel & Ordinary earth	M <sup>3</sup> /MT	Rs. 22/14 (Rupees Twenty Two/ Fourteen)
9	Ordinary sand/Sand manufactured from Boulders useful for Civil construction	M <sup>3</sup>	Rs. 40/- (Rupees Forty)
10	Shingle	M <sup>3</sup>	Rs. 17/- (Rupees Seventeen)
11	Chalcedony Pebbles	MT	Rs. 33/- ( Rupees Thirty Three)
12	Fullers Earth/Bentonite	MT	Rs. 110/- (Rupees One hundred and Ten) and Rs.44/- (Rupees Forty Four)
13	Shale/Slate	MT	Rs. 110/- (Rupees Hundred and Ten )
14	Rehmati	MT	Rs. 17/- (Rupees Seventeen )
15	Limestone slabs		
a(i)	Colour	-	Rs. 7/- (Rupees Seven) per Sq. Mt. or Rs. 88/- (Rupees Eighty Eight) per MT whichever is higher
(ii)	White	-	Rs. 5/- (Rupees Five) per Sq. Mt. or Rs. 55/- (Rupees Fifty Five) per MT. whichever is higher
(iii)	Black	-	Rs. 4/- (Rupees Four) per Sq. Mt. or Rs. 44/- (Rupees Forty Four) per Mt. whichever is higher
16	Ordinary clay, Silt and Brick Earth used in the manufacture of Bricks including Mangalore tiles	--	Rs. 3850/- (Rupees three thousand eight hundred and fifty only) per kiln per annum for Bricks and Tiles

**17. Granite Useful for Cutting:****(Rates in Cubic Metre)**

	Item	Super Gang Saw above 300 CMX 180 CM. Size	Mini Gang Saw above 270 Cm X 150 Cm. & less than 300 Cm X 180 Cm Size	Below 270 Cm. X 150 Cm. size	Below 75 Cm. Size
<b>(a)</b>	Black Granite Galaxy Variety	Rs. 3300/- (Rupees Three Thousand Three hundred)	Rs. 2625/- (Rupees Two thousand Six hundred and twenty five only)	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs. 1100/- (Rupees One thousand One hundred only)
<b>(b)</b>	Black Granite other than Galaxy Variety	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs.2000/- (Rupees Two thousand only)	Rs.1,925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs.825/- (Rupees Eight hundred and Twenty Five only)
<b>(c)</b>	Colour Granite Srikakulam Blue, Indian aurora of Nizamabad Dist., Leptinites of Coastal Dists., Black pearl of Praksam and Guntur Dists.	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs.2000/- (Rupees Two thousand only)	Rs.1925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs.825/- (Rupees Eight hundred and Twenty Five only)
<b>(d)</b>	Colour Granite of other varieties	RS.1,925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs. 1625/- (Rupees One thousand Six hundred and Twenty five only)	Rs.1650/- (Rupees One thousand Six hundred Fifty only)	Rs.825/- ( Rupees Eight hundred and Twenty Five only)

**SCHEDULE -II  
RATE OF DEAD RENT  
(PER HECTARE PER ANNUM)**

Sl. No.	Name of the Minor Mineral	Rate of Dead Rent per hectare per Annum
<b>01</b>	Black Granite	Rs.55,000/- (Rupees fifty five thousand only)
<b>02</b>	Colour Granite	Rs.44,000/- (Rupees forty four thousand only)
<b>03</b>	Limestone other than classified as Major Minerals used for Lime burning for building construction purposes, Marble, Boulders, Building Stone Including Stone used for Road Metal, Ballast Concrete and other Construction purposes, Shale, Slate and Phyllites, Mosaic Chips, Fuller's Earth/Bentonite & Dimensional Stones used for cubes & kerbs,	Rs.27,500/- (Rupees twenty seven thousand and five hundred only)
<b>04</b>	Gravel, Morrum, Shingle, Limestone Slabs used for Flooring purposes Limekankar, Chalcedony pebbles used in the building purposes Limeshell for burning used for building purposes and Rehmatti.	Rs.16,500/- (Rupees sixteen thousand and five hundred only)

- NOTE:-**1) The above rates are liable to be revised and amended from time to time by the State Government by notification in the Andhra Pradesh Gazette.  
2) In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.