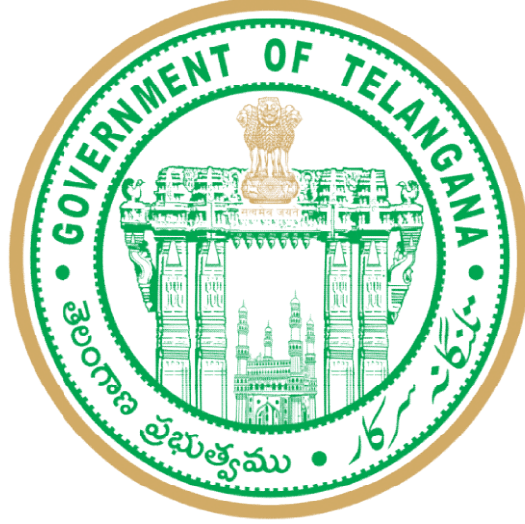


**GOVERNMENT OF TELANGANA**



**COMMON SCHEDULE OF RATES  
AS PER  
T.S. REVISED STANDARD DATA  
FOR THE YEAR 2017-18  
(Effective from 1<sup>st</sup> June, 2017)**

**BOARD OF CHIEF ENGINEERS**

## MASTER INDEX

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

**Proc. No. ENC/IW/P&M/EE/DEE-2/AEE.4/SOR 17-18/Vol.I Dt: 01.07.2017**

**Sub:** Schedule of Rates as per Telangana Revised Standard Data for the year 2017-18 - Irrigation & CAD works(Part-I), Road & Bridge Works (Part-II), and Public Health Items (Part-IV) – approved - Printing & Communication of SoRs - Reg.

**Ref:**

- 1) G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009
- 2) ENC(PR) Lr No.1385/AE/DEE(T)/SoR 2017-18/2017 Dt:24.05.2017
- 3) ENC (R&B-Buil) Lr. No. DEE-II/AEE10/SSR/2017-18, Dt: 02-06-2017
- 4) ENC (PH&ME) Lr.No. 146/AE4/T2/SoR/2017-18 dt.29-06-2016
- 5) Commissioner of Labour Dept. Lr.No:H1/1847/2017, Dt:20.04.2017.
- 6) Minutes of BOCEs meeting for Schedule of Rates held on 25.05.2017.

\*\*\*\*

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 2017-18 is approved based on the followings:

The draft schedule of rates for the year 2017-18 furnished by the ENC (IW), ENC (PR), ENC(R&B-B) and ENC (PH&ME) were discussed and finalized in the annual BOCE meeting held on 25.05.2017 at 3:00 PM in BOCE's Conference hall.

The Engineer-in-Chief (IW) has furnished the rates proposed for Labour Rates and Basic data for Irrigation Items Part-I of Common SoR for the year 2017-18.

The Engineer-in-Chief (PR) vide reference 2<sup>nd</sup> cited has furnished the Part-II of Common SoR for Roads & Bridge items for the year 2017-18 in lieu of the Engineer-in-Chief (R&B).

The Engineer-in- Chief (Buildings), R&B vide reference 4<sup>th</sup> cited has furnished the Part-III of Common SoR i.e., Buildings for the year 2017-18.

Based on the BoCE's Discussions, the Engineer-in- Chief, Public Health vide reference 4<sup>th</sup> has furnished Part-IV of Common SoR for Public Health works items and Public Health Materials

The labour wages are finalized based on market rates duly keeping in view of the minimum wages calculated from the index points obtained from the Commissioner, labour Department vide reference 5<sup>th</sup> cited for finalization of the labour rates for SoR 2017-18.

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.

Soft copy 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 2017-18. The unauthorized printing & selling of the SoR is strictly prohibited. The Schedule of Rates for 2017-18 will be in force until the new SoR comes in to force.

Any discrepancies found (or) corrections required in SoR 2017-18 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1st June of 2017.

The receipt of the proceedings may be acknowledged.

**Encl: SoR 2017-18 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, 01.07.2017  
Engineer-in-Chief (I.W.)  
Chairman, BOCE (SoR)



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

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

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

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

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

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

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

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

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

8) Copy to Dy EE (Computers) to place the soft copies of Schedule of Rates 2016-17 & Standard data in I&CAD Dept website.

Sd/- J.Vijaya Prakash, 01.07.2017  
Engineer-in-Chief (I.W.)  
Chairman, BOCE (SoR)



**Important – Read The following**

**ANNEXURE- A**

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

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

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

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

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

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

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

Sd/- J.Vijaya Prakash, 01.07.2017  
Engineer-in-Chief (I.W.)  
Chairman, BOCE (SoR)

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

## PART-I INDEX

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3	Irrigation Work Item rates		
4	Hire Charges of Machinery		
5	Conveyance Charges of Materials		

# **PREAMBLE**



**PREAMBLE**

**I. AREA ALLOWANCES:**

**A) CORPORATIONS & MUNICIPALITIES:**

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

**B) JAIL COMPOUNDS:**

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

**C) INDUSTRIAL AREA:**

20% over basic rates on labour component works allowed for works situated within 10km belt of Industrial area of Jeedimetla, Ibrahimpatnam in Malkajgiri District, Lingampally, Tandur, Kothuru in Ranga Reddy District, Patancheru, Ramachandrapur in Sangareddy District, Bibinagar in Bhongiri District, Wadepally in Nalgonda District, Nagapally (Centenary Colony, Begumpet "X" roads), Takkalapally, Ramagundam and Godavarikhani in Peddapally District, Manchiryal, Mandamarri, Bellampalli in Manchiryal District, Sarpaka, Kothagudem, Paloncha and Manguguru in Kothagudem Bhadrachalam district, Singareni Collieries in Khammam & Kothagudem Bhadrachalam Districts, Kamalapur in Warangal Urban district, 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 : Preable – Common SoR 2017-18  
200% extra

**C. EXCAVATION IN RESTRICTED PLACES:-**

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

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

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

**III. SEIGNIORAGE CHARGES:**

**Note:**The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges.

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

**IV. GST(Goods & Service Tax):**

**Note:** The applicability of GST (Goods & Service Tax) on works contract is yet to be announced by the Government. GST will be applicable on works contract as per orders of the Government.

Sd/- J.Vijaya Prakash, 14.06.2017  
Engineer-in-Chief(I.W)  
Chairman, B.O.C.E.

# **LABOUR RATES**

**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
<b>I.</b>	<b>SKILLED CATEGORY:</b>	
1	Bar bender	565
2	Black smith / Tin smith / Rivetor	470
3	Blaster ( Licensed )	565
4	Carpenter Cl- I	565
5	Electrician ( Licensed )	540
6	Fitter Cl- I	500
7	Floor Polisher / Tile Layer	470
8	Foreman	540
9	Gauge reader	450
10	Maistry / Work Inspector	565
11	Mason Cl- I / Brick layer Cl- I	470
12	Mechanic Cl- I	500
13	Operator Air compressor / DG set	470
14	Operator Batching plant	540
15	Operator Bus/Ambulance/ Lorry/ Tanker	540
16	Operator Concrete / Asphalt mixer	470
17	Operator Concrete / Asphalt paver	470
18	Operator Concrete pump / Placer/ ice plant	470
19	Operator Core drilling machine	540
20	Operator Crane/ Tower crane/ Cable way	540

**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
21	Operator Drilling jumbo / Loco / Winch	470
22	Operator Grouting/ Guniting/ Shotcreting	470
23	Operator Jackhammer/Pneumatic tamper	470
24	Operator Pump / Ventilation fan	470
25	Operator Lathe/Drilling/Shearing machine	540
26	Operator Bending / Planing machine	470
27	Operator Road roller	470
28	Operator Shovel / Scraper / Dozer	540
29	Operator Spillway / Sluice gate	470
30	Operator Crusher / Conveyor / Mucker	470
31	Operator Tipper / Dumper / Transit mixer	540
32	Operator Concrete vibrator	470
33	Operator Vibratory plain / padfoot roller	470
34	Operator Wagon drill / Drifter	540
35	Painter Cl- I	540
36	Plumber ( Licensed ) / Pipe fitter	540
37	Sarang / Khalasi	470
38	Spun pipe moulder	470

**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
39	Stone chiseller CI- I / Stone cutter CI- I	470
40	Struct. steel Fabricator / Marker / Erector	580
41	Welder / Gas Cutter	470
42	Welder (X-ray quality)	540
<b>II.</b>	<b>SEMI SKILLED CATEGORY:</b>	
1	Asphalt Sprayer / Boiler attendant	420
2	Bhisti	420
3	Boatman with boat	440
4	Carpenter CI- II / Erector shuttering	440
5	Cartman with double bullock cart	480
6	Cartman with single bullock cart	450
7	Chavali / Navagani	420
8	Crowbarman / Jumperman	420
9	Fitter CI- II	425
10	Gangman / Head / Survey mazdoor	420
11	Gardener / Trained mali	420
12	Helper Air compressor / DG set	420
13	Helper Batching plant	420
14	Helper Blasting	420

**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
15	Helper Bus/ Ambulance/ Lorry/ Tanker	420
16	Helper Bending/Shearing/Planing machine	420
17	Helper Carpenter	420
18	Helper Concrete / Asphalt mixer	420
19	Helper Concrete / Asphalt paver	420
20	Helper Core drilling machine	420
21	Helper Crane/ Tower crane/ Cable way	420
22	Helper Drilling jumbo / Loco / Winch	420
23	Helper Fitter / Fabrication	420
24	Helper Grouting/ Guniting/ Shotcreting	420
25	Helper Jack hammer / Pneumatic tamper	420
26	Helper Laboratory / Instrumentation	420
27	Helper Road roller	420
28	Helper Shovel / Scraper / Dozer	420
29	Helper Crusher / Conveyor / Mucker	420
30	Helper Tipper / Dumper/ Transit mixer	420
31	Helper Vibrator	420
32	Helper Vibratory plain/ padfoot roller	420
33	Helper Wagon drill/ Drifter	420
34	Lineman Electric / Telephone	420
35	Mason CI- II / Brick layer CI-II	425
36	Mechanic CI- II	425

**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
37	Painter CI- II	420
38	Patkari / Neeraganti / Sowdy	420
39	Stone Chiseller CI- II	420
40	Stone breaker / Hammerman	420
41	Valveman / Canal sluice operator	420
<b>III.</b>	<b>UN-SKILLED CATEGORY:</b>	
1	Cement / Asphalt handling mazdoor	400
2	Civic worker	400
3	Heavy mazdoor	400
4	Light mazdoor	400
5	Watchman	400
<b>IV.</b>	<b>OTHER CATEGORY:</b>	
1	Care-taker / conductor / Lift attender	430
2	Cook / Messman	430
3	Dhobi	430
4	Diploma Engineer / Surveyor	750
5	Diver with headgear	540
6	Graduate / Laboratory Assistant	540



**LABOUR RATES**

<b>SI No.</b>	<b>CATEGORY OF WORKER</b>	<b>S.Rate for 2017-18</b>
7	Graduate Engineer/ Geologist	960
8	Horticulture Assistant / Photographer	470
9	ITI certificate holder / Tracer / Printer	550
10	Literate mazdoor	425
11	Stenographer / Computer Operator	600
12	Telephone / Wireless Operator	550
13	Typist/Job Typist	550
14	CAD operator with diploma in Engineering/General degree with CAD Certificate	750
15	Jeep Driver	525
16	Data Processing Operator	700
<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 timesubject to issue of certificate accordingly by the concerned estimate sanctioning authority for providingin the data and by concerned Executive Engineer in charge of the work for payment.The night time allowance is applicable only to the works done under Greater Hyderabad Municipal Corporation and Greater Warangal Muncipal Corporation limits only.</p>		

# **IRRIGATION WORK ITEM RATES**

**SCHEDULE OF RATES  
BASIC DATA FOR  
IRRIGATION WORK ITEMS**

**FOR THE YEAR 2017-18**

**STATEMENT OF RATES FOR MATERIALS**

**GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
1	Acetylene gas	cum	320
2	Asphalt 80/100 Grade	Kg	45
3	Binding wire	Kg	55
4	Burnt stone slab 10 cm thick	sqm	200
5 (a)	Ordinary Portland Cement (43/53 GRADE) *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	6200 (Rate for 5/2017)
5 (b)	Portland Pozzolana Cement *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	6100 (Rate for 5/2017)
5 (c)	Portland Slag Cement *(Note: As per Monthly rate fixed by Sub-Committee)	tonne	6000 (Rate for 5/2017)
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	1090

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	1030
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	600
The aggregate rates mentioned above (from SI.No.7 to SI.No.10) are exclusive of Seigniorage charges but including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)			
11	Coir brush	Each	50
12	Copper sheet 16 SWG	kg	625
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	20
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	28
15	Curing Compound	Ltr	150
16	D – cord	Rm	10
17	Delay - noiseless trunk	Each	20
18	Detonating fuse coil	Rm	8
19	Detonating shock tube / Cord relays	Rm	35
20	Detonator delay type	Each	18
21	Detonator electric	Each	10
22	Detonator ordinary	Each	7
23	Empty cement bag	Each	5
24	Explosive ANFO	kg	55
25	Explosive ANFO high strength booster	kg	70
26	Explosive small dia ( Kelvex-220 or equivalent)	kg	75

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for 2017-18</b>
27	Fine aggregate/ sand(un- screened) for Concrete, Filtering items,Filling & Blindage (excluding Seigniorage charges)	cum	600
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges)	cum	800
29	Geo-textile ( filter fabric ) 160 gsm	sqm	40
30	Geo-textile ( filter fabric ) 200 gsm	sqm	50
31	Geo-textile ( filter fabric ) 250 gsm	sqm	60
32	G I Pipe 100 mm dia B Class	Rm	785
33	G I Pipe 15 mm dia A class	Rm	90
34	G I pipe 25 mm dia A class	Rm	150
35	G I pipe 40 mm dia B class	Rm	250
36	G I pipe 50 mm dia A class	Rm	290
37	G I Pipe 80 mm dia B Class	Rm	500
38	G.I Bolts / Nuts and Washers	kg	100
39 (a)	G.I sheet ( plain )	tonne	60000
39 (b)	G.I sheet ( corrugated )	tonne	64000
40	Hariyala turfing sods	sqm	32
41	Hectometer stone one line dressed	Each	270
42	Hemp yarn	kg	72
43	Honne wood planks	cum	57500
44	Hume pipe with collar 150 mm dia (NP2) PH Rate	Rm	254
45	Hume pipe with collar 300 mm dia (NP2) PH Rate	Rm	506
46	J- Bolts 30 cm long	Each	40

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
47	Jungle wood planks	cum	26000
48	Khandki stone 15 to 20 cm height	Each	13
49	Khandki stone 20 to 25 cm height	Each	15
50	Khandki stone 25 to 30 cm height	Each	18
51	Kilometer stone one line dressed	Each	490
52	LDPE sheet ( Geo membrane ) 500 micron thick	sqm	100
53	LDPE sheet ( Geo membrane ) 750 micron thick	sqm	140
54	LDPE sheet ( Geo membrane ) 1000 micron thick	sqm	190
55	M S Bolts / Nuts / Washers	kg	80
56	Murum(including loading charges <b>but excluding</b> Seigniorage charges )	cum	180
57	Oxalic acid	Ltr	85
58	Oxygen gas	cum	40
59	PVC sealing strip	Rm	48
60	PVC water stopper 310 mm wide	Rm	480
61	PVC pipe of 100 mm dia	Rm	180
62	<b>Reinforcement steel (HYSD/TMT )</b> from primary steel producers like TATA,SAIL,VSP,Jindal & Shyam steel. <b>*(Note: As per Monthly rate fixed by Sub-Committee)</b>	tonne	41000 (Rate for 5/2017)
63	Resin bond Cement capsule	Each	45

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
64	Rough stone 20 x 20 x 75 cm ( Including Loading charges <b>but excluding</b> Seigniorage Charges)	Each	24
65 (a)	Shahabad stone slab polished (including loading charges <b>but excluding</b> Seigniorage charges)	sqm	200
65 (b)	Shahabad stone slab non-polished (including loading charges <b>but excluding</b> Seigniorage charges)	sqm	150
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	41000 (Rate for 5/2017)
69	Structural steel plate / flats (including loading charges) <b>*(Note: As per Monthly rate fixed by Sub-Committee)</b>	tonne	46000 (Rate for 5/2017)
70	Super Plasticizer (Pozolith-55R/Conplast RP-264 or equivalent )	kg	45
71	Synthetic Enamel paint 1st quality	Ltr	240
72	Synthetic adhesive ( Resin + Hardener )	Kg	350
73	Tar felt joint filler board 12 mm thick	sqm	425
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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
78	Un-coursed rubble stones ( at dump yard /Spoil) (including loading charges <b>but excluding</b> Seigniorage charges)	cum	170
79	Un-coursed rubble stones ( at quarry )( including loading charges <b>but excluding</b> Seigniorage charges)	cum	340
80	Water proofing compound (ASTM-C-309/11)	kg	100
81	Welding electrodes 4 mm dia	Each	13
82	Wire brush	Each	41
83	Wire mesh 20 gauge	sqm	220
84	Zinc chromate red oxide primer paint. (as per BIS)	Ltr	170
85	inorganic zinc silicate	Ltr	600
86	solvent less coal tar epoxy paint	Ltr	260
87	Zinc phosphate primer (as per BIS)	Ltr	200
88	Allkyd based iron oxide paint (as per BIS)	Ltr	190
89 (a)	Cost of hdpe (80mm dia)	Rm	200
89 (b)	light black MS casing pipe 80mm dia (4mm thick)	Rm	680
90	welded steel wire fabric 100X100X5 mm size	Kg	175
91	Protective Mastic	Ltr	475
92	Solventless coal tar epoxy (brown)	Ltr	260



SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
93	Excavation of drain with Excavator	cum	40
94	Crushed stone sand/Rock sand 4.75mm to 2.36 mm as per <b>IS 383 (1970) (excluding Seigniorage charges)</b>	Cum	600
95	Fly ash conforming to IS: 3812 ( Part II & I)	Cum	72
96	Benching old embankment slopes 0.45 X 0.45 M	RM	6
97	Laying of Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges etc., with 13.615% overhead charges and contractors profit.	per bag	30
98	Rough stone for revetment 225mm thick ( including Loading charges but excluding Seigniorage charges)	cum	200
99	Eradication of Weed growth from Drains, Canals by spraying Chemicals	sqm	3
100	Thinner	ltr	90
101	Credit for excavated rock found suitable for use	Cum	210
102	Earth Cost or compensation for earth taken from private land( <b>Excluding Seigniorage Charges</b> )	Cum	45

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
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**ADDITIONAL MATERIALS FOR GATES & HOISTS  
FOR THE YEAR 2017-18**

**GUIDE LINES :**

- 1 For cast steel / Alloy steel / Forged steel / Bronze, aluminium 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.

1	Alloy steel ( IS : 1570-carbon steel ) shafts	Kg	250
2	Alloy steel ( IS : 1570-stainless steel ) pins	Kg	430
3	Bolt / Nut / Washer ( hot dipped galvanized )	Kg	125
4	Bolt / Nut / Washer ( stainless steel )	Kg	370
5 (a)	Bronze (IS:305)bearings/bushes	Kg	1000
5 (b)	Aluminum alloy(IS:305)bearings/bushes	Kg	1000
6	Cast iron blocks	Kg	85
7	Cast steel drums / gears	Kg	245
8	Cast steel pinions	Kg	230
9	Cast steel wheels / pulleys / hubs / rollers / retainers	Kg	185
10	Chemical for de-greasing/ derusting/phosphate coating	Ltr	160
11	Coal tar epoxy paint	Ltr	250
12	Forged steel hooks / shackles	Kg	265
13	MS pipe 200 / 300 mm dia	Kg	175
14	MS pipe 32 mm dia	Rm	200

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
15	MS pipe 25 mm dia	Rm	165
16(a)	Rubber bottom seal ( IS : 11855 ) 120 X 16 mm	Rm	780
16(b)	Rubber bottom seal ( IS : 11855 ) 120 X 20 mm	Rm	940
17 (a)	Rubber side seal ( music note type Teflon claded ) ( IS : 11855 ) 36 $\Theta$ -113 x 14 mm	Rm	1500
17 (b)	Rubber side seal ( music note type Teflon claded ) ( IS : 11855 ) 50 $\Theta$ -125 x 16 mm	Rm	2300
18 (a)	Rubber side seal ( music note type uncladed ) ( IS : 11855 ) 36 $\Theta$ 113 x 14 mm	Rm	1300
18 (b)	Rubber side seal ( music note type uncladed ) ( IS : 11855 ) 50 $\Theta$ 125 x 16 mm		2000
19	Rubber side seal Z-type ( IS : 11855 )	Rm	1900
20 (a)	Rubber corner seal ( Teflon claded ) ( IS : 11855 ) 36 $\Theta$ 113 x 14 mm	Each	3200
20 (b)	Rubber corner seal ( Teflon claded ) ( IS : 11855 ) 50 $\Theta$ 125 x 16 mm	Each	4200
21 (a)	Rubber corner seal ( un claded ) ( IS : 11855 ) 36 $\Theta$ 113 x 14 mm	Each	3000
21 (b)	Rubber corner seal ( un claded ) ( IS : 11855 ) 50 $\Theta$ 125 x 16 mm	Each	4000
22	Stainless steel plates / flats	Kg	300
23	Welding electrode 4 mm dia x 450 mm ( radiographic low hydrogen )	Each	20
24	Welding electrode 4 mm dia x 450 mm ( stainless steel )	Each	27
25	Wire rope 6x37 constn ( IS : 2266 )	Kg	240
26	Zinc	Kg	210
27	Zinc rich ( zinc content : 90 % ) epoxy primer	Ltr	740

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
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**DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT  
FOR THE YEAR 2017-18**

**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.

1	Agitator car / Transit mixer 2 cum ( excluding tyres )	Each	2,200,000
	tyres and tubes 6 sets		90,000
2	Air compressor 5 cmm electric	Each	710,000
3	Air compressor 7 cmm diesel	Each	950,000
4	Air compressor 7 cmm electric	Each	865,000
5	Air compressor 8.5 cmm diesel	Each	1,085,000
6	Air compressor 8.5 cmm electric	Each	1,120,000
7	Air compressor 15 cmm electric	Each	1,370,000
8	Angle Dozer 90 hp	Each	5,475,000
9	Batching plant 0.5 cum with accessories	Each	1,200,000
10	Batching plant 2 x 1.00 cum with accessories	Each	4,245,000
11	Batching plant 2 x 1.50 cum with accessories	Each	5,425,000
12	Bending machine	Each	530,000
13	Clamp shell and hoisting ropes	Each	30,000
14	Concrete bucket 1.5 cum	Each	56,000
15	Concrete hand mixer 45/30 ltr	Each	15,500
16	Concrete mixer 300/200 ltr(diesel)	Each	150,000
17	Concrete mixer 300/200 ltr ( electric )	Each	145,000

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for 2017-18</b>
18	Concrete mixer 600/400 ltr(diesel)	Each	260,000
19	Concrete mixer 600/400 ltr ( electric )	Each	255,000
20	Concrete paver 100 Sqm / hr	Each	2,361,000
21	Convey mucker ( excluding tyres )	Each	3,855,000
	tyres and tubes 6 sets		90,000
22	Core drilling machine	Each	1,150,000
23	Diesel generating set 30 KVA	Each	522,000
24	Diesel generating set 50 KVA	Each	744,000
25	Diesel Loco 45 hp	Each	2,120,000
26	Dewatering pump 5 hp diesel	Each	34,000
27	Dewatering pump 5 hp electric	Each	24,500
28	Dewatering pump 10 hp diesel	Each	60,000
29	Dewatering pump 10 hp electric	Each	55,000
30	Dewatering pump 20 hp diesel	Each	190,000
31	Dewatering pump 20 hp electric	Each	100,000
32	Drifter	Each	1,100,000
33	Drilling jumbo ( excluding tyres )	Each	1,350,000
	tyres and tubes 6 sets		90,000
34	Dumper 4.5 cum ( excluding tyres )	Each	1,500,000
	tyres and tubes 6 sets		90,000
35	Geophysical Ele.resistivity meter	Each	500,000

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for 2017-18</b>
36	Grouting pump	Each	150,000
37	Guniting / sand blasting equipment	Each	280,000
38	Ice plant with accessories 30 t / day	Each	2,280,000
39	Jack hammer	Each	70,000
40	Needle vibrator 40 mm petrol	Each	14,500
41	Needle vibrator 40 mm electric	Each	13,500
42	Needle vibrator 60 mm petrol	Each	16,500
43	Needle vibrator 60 mm electric	Each	15,500
44	Planing machine 4 m stroke	Each	780,000
45	Plate shearing machine up to 12 mm	Each	450,000
46	Pneumatic placer 0.5 cum	Each	590,000
47	Pneumatic tamper	Each	85,000
48	Pug cutting machine	Each	17,500
49	Pusher leg	Each	52,000
50	Road roller diesel 10 t	Each	925,000
51	Shovel 0.50 cum 75 hp	Each	3,750,000
52	Shovel 0.85 cum 110 hp	Each	6,380,000
53	Stationery derrick crane 5 t	Each	653,000
54	Tipper 5 cum ( excluding tyres )	Each	1,645,000

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for 2017-18</b>
	tyres and tubes 6 sets		90,000
55	Tipping tub 1.5 cum	Each	260,000
56	Tower crane 5 tonne	Each	7,650,000
57	Transformer 250 KVA	Each	450,000
58	Truck 10 t ( excluding tyres )	Each	1,475,000
	tyres and tubes 6 sets		90,000
59	Truck mounted derrick crane 5 t ( excluding tyres )	Each	2,240,000
	tyres and tubes 6 sets		90,000
60	Upright drilling machine	Each	56,000
61	Ventilation fan 20 hp	Each	260,000
62	Vibratory pad foot roller 8 t	Each	2,950,000
63	Wagon drill	Each	650,000
64	Water tanker 8000 ltr (excluding tyres)	Each	1,440,000
	tyres and tubes 6 sets		90,000
65	Welding set	Each	48,000
66	Winch 35 hp electric	Each	375,000
67	Hydraulic Truck Crane 30T	Each	14,300,000
	tyres and tubes 6 sets		190,000
68	Hydraulic Truck Crane 16T	Each	10,200,000
	tyres and tubes 6 sets		190,000
69	Heavy Duty Airless Spray Painting Equipment	Each	490,000

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
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**ACCESSORIES TO MACHINERY / EQUIPMENT  
FOR THE YEAR 2017-18**

1	Casing shoe bit	Each	10,500
2	Diamond core bit BX size	Each	11,000
3	Diamond core bit NX size	Each	13,000
4	Double tube core barrel	Each	14,000
5	Extension drill rod with coupling sleeve	Rm	2,500
6	Jack hammer drill rod 1.5 m	Each	5,500
7	Jack hammer drill rod 2.5 m	Each	6,900
8	Nozzle for Guniting / sand blasting gun	Each	800
9	Paving Cylinder	Each	28,500
10	Rails 30R ( 30 kg / m )	tonne	56,000
11	Reamer shell	Each	6,000
12	T.C. Cross bit 50 mm dia	Each	5,000
13	T.C. Cross bit 75 mm dia	Each	12,000
14	T.C. Cross bit 100 mm dia	Each	14,000
15	Tyres and Tubes for truck	Set	18,000
16	Wire rope 16 mm dia	Rm	265



SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for 2017-18
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**OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT  
FOR THE YEAR 2017-18**

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

1	Air hose 25 mm dia	Rm	184
2	Air hose 50 mm dia	Rm	257
3	Demand charges (HT-I : General-11 KVA category) on power supply	KVA / month	370
4	Diesel	Ltr	61.04
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	9.97
6	Excise duty on Gates / Hoist supplies	%	0%
7	Insurance charges on machinery	% / annum	0%
8	Interest on capital cost	% / annum	9.00%
9	Lubricants	Ltr	230
10	Petrol	Ltr	71.49
11	Rivets	Kg	100
12	Road tax on transport vehicles	Rs./annu m	As per RTA
13	Shalimastic sealing compound	Kg	105
14	Shutter oil	Ltr	30
15	Structural steel fabrication	Kg	24

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for 2017-18</b>
16	Sundries ( Lump sum for un quantified inputs )	LS	20
17	Water hose ( pressure ) 20 mm dia	Rm	170
18	Steel wedges	LS	16
19	Elbows / Nipple / Plugs etc.,	LS	17
20	Soldering materials	LS	17
21	Steam circulation arrangement	LS	17
22	Fuel charges ( gas for heating )	LS	17
23	Vulcanizing materials	LS	17
24	Gas cutting set ( 2 No's 15 m hose and nozzle unit )	Each	14,250
25	Grease	Kg	275
26	Welding holder set ( cable / holder / gloves / mask etc )	Each	7800
27	Use rate of ropes	LS	150

**MATERIALS FOR GATES AND HOISTS  
FOR THE YEAR 2017-18**

1	Worm reducers	Each	192,000
2	Electric motor 20 hp(Double Shaft)	Each	104,000
3	Electric motor 17.5 hp(Double Shaft)	Each	73,000
4	Electric motor 12.5 hp(Double Shaft)	Each	62,000
5	Electric motor 5 hp(Double Shaft)	Each	29,000
6	Electric motor 3 hp (Double Shaft)	Each	20,000
7	Electric motor 2 hp (Double Shaft)	Each	10,500
8	Floating shaft 300 mm dia	Kg	170
9	Manual operating system	Each	27,000
10	Gate position indicator	Each	200,000
11	Ele-magnetic brake	Each	32,500
12	Electric cable / switch / control panel etc	LS	56,000

# **HIRE CHARGES**

**HIRE CHARGES OF MACHINERY****FOR THE YEAR : 2017-18**

S.No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
1	2	3	4	5	6	7
1	Agitator car / Transit mixer 2 cum	Hour	739.60	923.20	299.50	1962.30
2	Air compressor 5 cmm ( electric )	Hour	101.00	301.20	173.60	575.80
3	Air compressor 7 cmm ( diesel )	Hour	228.50	755.40	222.10	1206.00
4	Air compressor 7 cmm ( electric )	Hour	123.00	401.60	173.60	698.20
5	Air compressor 8.5 cmm ( diesel )	Hour	260.90	944.20	222.10	1427.20
6	Air compressor 8.5 cmm ( electric )	Hour	159.30	502.00	173.60	834.90
7	Air compressor 15 cmm ( electric )	Hour	124.40	1115.60	185.10	1425.10
8	Angle Dozer 90 hp	Hour	1640.20	645.80	249.60	2535.60
9	Batching plant 0.5 cum( 6 cum/hr)	Hour	103.20	133.90	359.40	596.50
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	365.10	401.60	359.40	1126.10
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	466.60	490.90	359.40	1316.90
12	Bending machine 3000 x 12 mm	Hour	38.30	133.90	138.80	311.00
13	Clamp shell and hoisting ropes	Hour	5.40	0.00	0.00	5.40
14	Concrete bucket 1.5 cum	Hour	15.20	0.00	0.00	15.20
15	Concrete hand mixer 45 / 30 ltr	Hour	5.30	0.00	0.00	5.30
16	Concrete mixer 300 / 200 ( diesel )	Hour	51.30	83.90	231.40	366.60
17	Concrete mixer 300 / 200 ltr ( electric )	Hour	49.50	44.60	231.40	325.50
18	Concrete mixer 600 / 400 ( diesel )	Hour	88.80	167.90	231.40	488.10
19	Concrete mixer 600 / 400 ltr ( electric )	Hour	87.10	89.30	231.40	407.80
20	Concrete paver 100 sqm / hr	Hour	326.40	0.00	444.30	770.70
21	Convey mucker	Hour	783.50	310.60	185.10	1279.20
22	Core drilling machine	Hour	314.10	251.80	299.50	865.40
23	Diesel generating set 30 KVA	Hour	65.10	671.40	138.80	875.30
24	Diesel generating set 50 KVA	Hour	92.80	1007.20	138.80	1238.80
25	Diesel Loco 45 hp	Hour	359.70	566.50	173.60	1099.80
26	Dewatering pump 5 hp ( diesel )	Hour	8.20	83.90	117.30	209.40
27	Dewatering pump 5 hp ( electric )	Hour	2.80	44.60	88.00	135.40
28	Dewatering pump 10 hp ( diesel )	Hour	14.40	167.90	117.30	299.60
29	Dewatering pump 10 hp ( electric )	Hour	6.20	89.30	88.00	183.50
30	Dewatering pump 20 hp ( diesel )	Hour	45.70	335.70	117.30	498.70
31	Dewatering pump 20 hp ( electric )	Hour	11.30	178.50	88.00	277.80
32	Drifter	Hour	312.80	0.00	374.40	687.20
33	Drilling jumbo	Hour	365.50	45.30	185.10	595.90
34	Dumper 4.5 cum	Hour	579.40	423.00	239.60	1242.00
35	Geophysical Electric resistivity meter	Hour	99.80	0.00	0.00	99.80
36	Grouting pump	Hour	34.10	44.60	277.70	356.40
37	Guniting / sand blast equipment	Hour	105.90	0.00	231.40	337.30
38	Ice plant & accessories 30 t / day	Hour	152.20	1271.80	138.80	1562.80
39	Jack hammer	Hour	19.90	0.00	347.10	367.00
40	Needle vibrator 40 mm ( petrol )	Hour	5.40	19.70	166.60	191.70
41	Needle vibrator 40 mm ( electric )	Hour	5.00	8.90	166.60	180.50
42	Needle vibrator 60 mm ( petrol )	Hour	6.10	29.50	166.60	202.20
43	Needle vibrator 60 mm ( electric )	Hour	5.70	13.40	166.60	185.70
44	Planing machine 4 m stroke	Hour	107.80	133.90	222.10	463.80
45	Plate shearing machine upto 12 mm	Hour	40.80	178.50	149.80	369.10
46	Pneumatic placer 0.5 cum	Hour	167.40	0.00	91.70	259.10
47	Pneumatic tamper	Hour	19.30	0.00	277.70	297.00
48	Pug cutting machine	Hour	6.70	4.50	0.00	11.20
49	Pusher leg	Hour	11.80	0.00	0.00	11.80
50	Road roller diesel 10 t	Hour	202.10	755.40	222.10	1179.60
51	Shovel 0.50 cum 75 hp	Hour	951.60	503.60	249.60	1704.80
52	Shovel 0.85 cum 110 hp	Hour	1618.90	923.20	249.60	2791.70
53	Stationery derrick crane	Hour	79.40	0.00	0.00	79.40
54	Tipper 5 cum	Hour	436.20	317.30	187.20	940.70
55	Tipping tub 1.5 cum	Hour	66.60	0.00	0.00	66.60
56	Tower crane 5 tonne	Hour	807.10	232.10	199.70	1238.90
57	Transformer 250 KVA	Hour	4737.50	0.00	0.00	4737.50
58	Truck 10 t	Hour	401.00	317.30	187.20	905.50

## HIRE CHARGES OF MACHINERY

FOR THE YEAR : 2017-18

S.No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
1	2	3	4	5	6	7
59	Truck mounted derrick crane 5 t	Hour	559.70	317.30	187.20	1064.20
60	Upright drilling machine/Grinder	Hour	21.30	44.60	210.60	276.50
61	Ventilation fan 20 hp	Hour	10.60	178.50	30.30	219.40
62	Vibratory pad foot roller 8 t	Hour	1292.50	1091.10	277.70	2661.30
63	Wagon drill	Hour	177.50	0.00	299.50	477.00
64	Water tanker 8000 ltr	Hour	393.70	317.30	187.20	898.20
65	Welding set	Hour	15.00	107.10	0.00	122.10
66	Winch 35 hp ( electric )	Hour	123.00	218.70	277.70	619.40
67	Tractor with 2T roller	Hour				345.00
68	Hydraulic Truck Crane 30T	Hour	2874.40	118.80	554.10	3547.30
69	Hydraulic Truck Crane 16T	Hour	2107.70	75.00	554.10	2736.80
70	Heavy Duty Airless Spray Painting Equipment	Hour	118.70			118.70

# **CONVEYANCE CHARGES OF MATERIAL**



**CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2017-18**

**(COMMON TO ALL DEPARTMENTS)**

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE YEAR: 2017-18**

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



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

**A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS BY HEAD LOAD FOR THE YEAR: 2017-18**

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 / Reinforc e- ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab/ Late-rite / Wood Rs / cum
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	64.90	37.90	82.60
3	Total lead up to 150 m	129.80	75.70	165.30

- 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: 2017-18**

(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.met er water/ 1000 litres	(Lead) charges for trucks per 1000 nos. of bricks
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1	2	3	4	5	6	7	8
1	Lead up to 1 km	32.10	30.90	19.30	45.40	19.10	51.40
2	Lead up to 2 km	44.90	43.20	27.00	63.50	26.80	72.00
3	Lead up to 3 km	59.90	59.90	37.40	88.00	35.70	96.00
4	Lead up to 4 km	72.70	72.70	45.40	106.90	43.40	116.60
5	Lead up to 5 km	85.50	85.50	53.40	125.70	51.00	137.20
	for Every km beyond 5 km up to 30 km	12.80	12.80	8.00	18.90	7.70	20.60
	for Every km beyond 30 km	10.70	10.70	6.70	15.70	6.40	17.10

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

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

Sl No.	Description of item	Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggretgate, Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/100 0 No
1	2	3	4	5	6	7
1	Loading	21.50	43.00	71.00	85.10	59.20
2	Unloading	10.75	21.50	71.00	85.10	59.20

**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 aggretgate, Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/100 0 No
1	2	3	4	5	6	7
1	Loading	115.10	136.60	173.90	188.00	228.90
2	Unloading	41.80	68.30	173.90	188.00	228.90

**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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Loading	52.10	103.90
2	Unloading	16.20	16.20

**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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
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	7.60	5.50	10.10

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

# **ROADS & BRIDGE WORKS**

# **Index**

## **PART-II**

### **Roads & Bridge Works**

<b>S.No</b>	<b>Description</b>
<b>1</b>	Preamble
<b>2</b>	Labour Charges
<b>3</b>	Materials & Work Item Rates
<b>4</b>	Hire Charges of Plant & Machinery for Roads & Bridge Works

# **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, (Up to a belt of 12km 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 (Up to a belt of 12km 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 km 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 10km belt of Industrial area of Jeedimetla, Ibrahimpatnam in Malkajgiri District, Lingampally, Tandur, Kothuru in Ranga Reddy District, Patancheru, Ramachandrapur in Sangareddy District, Bibinagar in Bhongiri District, Wadepally in Nalgonda District, **Nagapally (Centenary Colony, Begumpet "X" roads)**, Takkalapally, Ramagundam

and Godavarikhani in Peddapally District, Manchiryal, Mandamarri, Bellampalli in Manchiryal District, Sarpaka, Kothagudem, Paloncha and Manguguru in Kothagudem Bhadrachalam district, Singareni Collieries in Khammam & Kothagudem Bhadrachalam Districts, Kamalapur in Warangal Urban district, Bhoopalpally of Warangal 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 16km 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 16km 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.
- b) Masonry: 1.0 Woman Mazdoor / cum.
- c) Plastering: 0.5 Woman Mazdoor / 10sqm

**Note:-** For Water leads of over 2km, 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 meters in width ... 25% extra

**B. TRIAL PITS:**

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

## II) EXCAVATION IN RESTRICTED PLACES:-

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

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

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3<sup>rd</sup> 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 1<sup>st</sup> Class and the remaining 70% as 2<sup>nd</sup> 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 0.015cum) 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  $\frac{2}{3}^{\text{rd}}$  of the labour charges of revetment as Chief Engineer, Circular No. P3/OT2/ T3/ 65167/78, dt.19.03.1980.

### **6.0 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)

### **7.0 SEIGNIORAGE CHARGES:**

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

### **8.0 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	SS RATE FOR 2017-18
1	2	3	4	5
<b>(A) SKILLED WORKMEN</b>				
<b>First Class</b>				
1	a	Mason Cl-I and stone cutter	Day	470 As per I&CAD (S.No.11 & 39)
2	b	Brick Layer Cl - I	Day	470 As per I&CAD (S.No.11)
3	c	Carpenter Cl - I	Day	565 As per I&CAD (S.No.4)
4	d	Painter Cl - I	Day	540 As per I&CAD (S.No.35)
5	e	Plumber (Licensed)	Day	540 As per I&CAD (S.No.36)
6	f	Welder (X- Ray Quality)	Day	470 As per I&CAD (S.No.41)
7	g	Fitter Cl - I	Day	500 As per I&CAD (S.No.6)
8	h	Electrician (Licensed)	Day	540 As per I&CAD (S.No.5)
9	1	Cook	Day	430 As per I&CAD (S.No.2) Other Category
10	2	Mechanic Cl - I	Day	500 As per I&CAD (S.No.12)
11	5	Well Sinker	Day	565
12	6	Blaster (Licensed)	Day	565 As per I&CAD (S.No.3)
13	3	Barbender	Day	565 As per I&CAD (S.No.1)
14	7	Tipper and Heavy Vehicle Driver above 12 T	Day	540 As per I&CAD (S.No.15)
15		Road Roller Driver (7.5 T to 12 T)	Day	470 As per I&CAD (S.No.27)
<b>Operator</b>				
16		Concrete Mixer	Day	470 As per I&CAD (S.No.16)
17		Vibrator	Day	470 As per I&CAD (S.No.32)
18		Jack Hammer	Day	470 As per I&CAD (S.No.23)
19		Driller	Day	540 As per I&CAD (S.No.34)
20	11	Pump operator	Day	470 As per I&CAD (S.No.24)

<b>Sl. No.</b>	<b>S.S. Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>SS RATE FOR 2017-18</b>
1	2	3	4	5
21	13	Wireless Operator	Day	550 As per I&CAD (S.No.12) Other Category
22	15	Jeep Driver	Day	525 As per I&CAD (S.No.15) Other Category
23	16	Work Inspector with I.T.I qualification	Day	550 As per I&CAD (S.No.9) Other Category
24	17	Work Inspector with LCE, LME,L.E.E qualification	Day	750 As per I&CAD (S.No.4) Other Category
25	18	Work Inspector with B.E (Civil Mechanical and Electrical qualification	Day	960 As per I&CAD (S.No.7) Other Category
26	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	565 As per I&CAD (S.No.10)
27	27 a(i)	Typist/Job Typist	Day	550 As per I&CAD (S.No.13) Other Category
28	a (ii)	Computer operator	Day	600 As per I&CAD (S.No.11) Other Category
29	b	"CAD Operator with Diploma in Engineering /General degree with CAD certificate"	Day	750 As per I&CAD (S.No.14) Other Category
<b>(B) SEMI –SKILLED WORKMEN</b>				
<b>SECOND CLASS</b>				
30	1	Mason CI-II	Day	425 As per I&CAD (S.No.35) Semi-Skilled
31	b	Brick Layer and Stone Cutter	Day	425 As per I&CAD (S.No.35 & 40) Semi-Skilled
32	c	Carpenter CI-II	Day	440 As per I&CAD (S.No.4) Semi-Skilled
33	d	Painter CI-II	Day	420 As per I&CAD (S.No.37) Semi-Skilled
34	10	Telephone Operator	Day	550 As per I&CAD (S.No.12) Other Category

Sl. No.	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	2	3	4	5
35	13	Hammer Man	Day	420 As per I&CAD (S.No.40) Semi-skilled
36	17	Stone Packer	Day	480
37	1	Head Mazdoor (Mukaddar)	Day	420 As per I&CAD (S.No.10) Semi Skilled
<b>(C) UNSKILLED WORKMEN</b>				
38	2	Man Mazdoor	Day	400 As per I&CAD (S.No.3) Un-Skilled
39	3	Watch Man	Day	400 As per I&CAD (S.No.5) Un-Skilled
40	5	Woman Mazdoor	Day	400 As per I&CAD (S.No.4) Un-Skilled
<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>				
41	1	Single bullock with driver and cart	Day	450 As per I&CAD (S.No.6) Semi Skilled
42	3	Bullock pair with driver and cart	Day	480 As per I&CAD (S.No.5 ) Semi Skilled
43	6	Nava with crew	Day	440 As per I&CAD (S.No.3) Semi Skilled

**Note :-**

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

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

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
		<b>(A) STONE AND ROAD MATERIALS</b>		
		<b>ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING.</b>		
1	22.a	For R.R Masonary Work (other than Granite, Dolomite and Trap)	1 cum	160.00
2	b.I	For SS Revetment work 225 mm	1 cum	160.00
3	b.ii	For SS Revetment work 300 mm	1 cum	164.00
4	b.iii	For SS Revetment work 450 mm	1 cum	136.00
5	C	Jeddy Stone above 450 mm to 600 mm	1 cum	188.00
6	d I.	Laterite for revetment 225 mm	1 cum	118.00
7	d II.	Laterite for revetment 300 mm	1 cum	138.00
8	d.iii	Granite for SS revetment 225 mm	1 cum	154.00
9	d.iv	Granite for SS revetment 300 mm	1 cum	156.00
		Note:- Only when other granite is not available		
10	E	Laterite for masonry	1 cum	136.00
11	F	Cyclopean stones above 0.20 cum	1 cum	254.00
12	G	For R.R.Masonry works ( granite, dolomite and trap variety) including loading & unloading	1 cum	252.00
13		NOTE:- For items 22(a) to 22© and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	70.00
		<b>COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS</b>		
14	23.a	Granite, Dolomite and trap	1 cum	262.00
15	B	For other varieties	1 cum	188.00
16	27.00	Granite stone slabs for culverts, lintels and copings (3 faces dressed coursed rubble masonry)	1 cum	1728.00
17		NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	74.00
18	28.00	Bond stones ( 600 x 200 x 200 mm )	each	30.00
19	B	Chainage stones and Centre line stones (750x150x150xmm)	each	37.00
	29(a)	Kilometer stones (1100x370x250mm)		Based on detailed analysis as per MoRTH Data
	b	5 <sup>th</sup> Kilometer stones (1520x520x250mm)		
	30(a)	Hecto meter stones (900x200x200mm)		

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
20	31.00	Demarcation Stones ( 900 x 150 x 150 mm)	each	70.00
21	32.a	Guard Stones ( 1200 x 200 x 200 mm )	each	102.00
22	B	Guide Stones ( 800 x 150 x 150 mm )	each	70.00
23	C	Carving letters and figures in stone up to 100 mm size	each	8.00
24	D	Carving letters and figures in stone above 100 mm size	each	9.00
		<b>HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE &amp; TRAP (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING (excluding balsting &amp; machine crushing charges)</b>		
25	33.a	- do - 6mm size (IS 383, 1970)	1 cum	532.00
26	b	- do - 10mm size (IS 383, 1970)	1 cum	692.00
27	c	- do - 12mm size (IS 383, 1970)	1 cum	822.00
28	d	- do - 20mm size (IS 383, 1970)	1 cum	916.00
29	e	- do - 25mm size (IS 383, 1970)	1 cum	874.00
30	f	- do - 40mm size (IS 383, 1970)	1 cum	532.00
31	g	- do - 50mm size (IS 383, 1970)	1 cum	456.00
32	h	- do - 60mm size (IS 383, 1970)	1 cum	419.00
33	I	- do - 65mm size (IS 383, 1970)	1 cum	379.00
34	j	- do - 75mm size (IS 383, 1970)	1 cum	304.00
35	k	- do - 75 to 100mm size (IS 383, 1970)	1 cum	248.00
36		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting		70.00
37		(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.		
38		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.		9.90
39		(4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made.		17.00



Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
		<b>SOFT BROKEN STONE SCREENED AND FREE FROM DUST</b>		
40	33.l	- do - 40 mm size (IS 383, 1970)	1 Cum	123.00
41	33.m	- do - 50 mm size (IS 383, 1970)	1 Cum	111.00
42	33.n	- do - 60 mm size (IS 383, 1970)	1 Cum	87.00
43	33.o	- do - 65 mm size (IS 383, 1970)	1 Cum	78.00
44	33.p	- do - 75 mm size (IS 383, 1970)	1 Cum	73.00
		<b>HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)</b>		
45	33a	-do- 2.36 to 5 mm size (IRC, MORTH & MORD)	1 cum	340.00
46	b	-do- 5 to 7mm size (IRC, MORTH & MORD)	1 cum	504.00
47	c	-do- 9.5 to 11.2mm size (IRC, MORTH & MORD)	1 cum	656.00
48	d	-do- 12 to 14mm size (IRC, MORTH & MORD)	1 cum	717.00
49	e	-do- 19 to 22mm size (IRC, MORTH & MORD)	1 cum	864.00
50	f	-do- 25 to 27mm size (IRC, MORTH & MORD)	1 cum	824.00
51	g	-do- 40 to 45mm size (IRC, MORTH & MORD)	1 cum	500.00
52	h	-do- 50 to 55mm size (IRC, MORTH & MORD)	1 cum	456.00
53	i	-do- 60 to 63mm size (IRC, MORTH & MORD)	1 cum	419.00
54	j	-do- 65mm size (IRC, MORTH & MORD)	1 cum	379.00
55	k	-do- 75mm size (IRC, MORTH & MORD)	1 cum	304.00
56	1.00	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70.00
57	2.00	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	
58	3.00	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.90
59	4.00	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	17.00

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
		<b>HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST</b>		
60	33.q	- do - 10 mm size (IS 383, 1970)	1 Cum	386.00
61		-do- 9.5 to 11.2mm size (IRC, MORTH & MORD)	1 Cum	386.00
62	r	- do - 12 mm size (IS 383 1970)	1 Cum	362.00
63		-do- 12 to 14mm size (IRC, MORTH & MORD)	1 Cum	362.00
64	S	- do - 20 mm size (IS 383, 1970)	1 Cum	293.00
65		-do- 19 to 22mm size (IRC, MORTH & MORD)	1 Cum	293.00
66	T	- do - 25 mm size (IS 383, 1970)	1 Cum	287.00
67	U	- do - 40 mm size (IS 383, 1970)	1 Cum	170.00
68		-do- 40 to 45mm size (IRC, MORTH & MORD)	1 Cum	170.00
69	V	- do - 50 mm size (IS 383, 1970)	1 Cum	150.00
70		-do- 50 to 55mm size (IRC, MORTH & MORD)	1 Cum	150.00
71	33.w	- do - 65 mm size (IS 383, 1970)	1 Cum	142.00
72		-do- 60 to 65mm size (IRC, MORTH & MORD)	1 Cum	142.00
73	X	- do - 75 mm size (IS 383, 1970)	1 Cum	117.00
74		-do- 75mm size (IRC, MORTH & MORD)	1 Cum	117.00
75	Y	- do - 75 to 100 mm size (IS 383, 1970)	1 Cum	92.00
76		- do - 75 to 100 mm ( IRC, MORTH & MORD)	1 Cum	92.00
		<b>OTHER ITEMS</b>		
77	33.z1	Laterite 40 to 75 mm ( ring)	1 Cum	101.00
78	z2	Kankar, hard broken kankar 40 to 75 mm ( ring )	1 Cum	75.00
79	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	95.00
80		NOTE:- (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23	1 Cum	70.00
81	z4	Soling stone of 150 mm size other than granite variety	1 Cum	66.00
82	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	41.00

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
83	z6	Field picked metal unbroken 20 mm size	1 Cum	55.00
84	z7	- do - 25 mm size	1 Cum	42.00
85	z8	- do - 40 mm size	1 Cum	48.00
86	z9	- do - 50 mm size	1 Cum	42.00
87	z10	- do - 60 mm size	1 Cum	36.00
88	z11	- do - 80 mm size	1 Cum	32.00
89		NOTE:- Add Rs. /- Per Cum for selection of stone and boulders from excavated spoil dumps for items 33 (Q) TO 33 Z , when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum should invariably be made towards the metal or rubble if it is obtained from surface stone and boulders.		17.00
90	34.00	Gravel	1 Cum	103.00
91	35 a	Quarry rubbish	1 Cum	81.00
92	B	HBG Stone Chips 2.36mm and below	1 Cum	480.00
93	36.a	Sand for mortar, plastering, ceiling coat including washing screening etc.,	1 Cum	800.00 (As per I & CAD Draft proposal sl.no.28)
94	b.	Sand for concrete	1 cum	600.00 (As per I & CAD Draft proposal sl.no.27)
95	c	Sand for filling and blindage	1 Cum	600.00 (As per I & CAD Draft proposal sl.no.27)
96	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	35.00
		<b>(C) LIME AND CEMENT</b>		
97	40 to 41(c)			
98	42	Cement excluding cost of empty cement bags	1 MT	Monthly Rates will be communicated by Govt.
		NOTE: (1) The rates are inclusive of sales tax. 2)As per the rates applicable to the District. 3) Least of the (1) and (2 ) above may be allowed 4) The price of cement will be reviewed and fixed on monthly basis and rates will be communicated separately.		
99	42.a	Labour for mixing cement mortar	1 cum	Based detailed analysis as per MoRTH
100	b	Mixing cement mortar by machine	1 cum	
101	C	Grinding lime mortar or Surkhi mortar	1 Cum	94.00
102	D	Shell lime slaked and screened	1 Cum	940.00

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
103	E	White cement	1 Kg.	33.00 (As per Bldg. SoR 2017-18 - Sl.No. - TBSC-R.I-01)
		<b>(D) MORTARS</b>		
104	43 to 45	Items 43 to 45		
		<b>(E) METAL AND IRON WORKS</b>		
105		Mild steel rods 6mm dia.	1 MT	Monthly Rates will be communicated by Govt.
106		Mild steel flats	1 MT	
107		Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	1 MT	
108		High Yield Strength Deformed Bars/TMT bars	1 MT	
109		Mild steel plates	1 MT	
		NOTE: (1) The rates are inclusive of sales tax. 2)As per the rates applicable to the District. 3) Least of the (1) and (2 ) above may allowed 4) The prices of steel will be reviewed and fixed on monthly basis and rates will be communicated separately.		
		<b>III RATES OF WORKS</b>		
		<b>(A) CLEARING SITE</b>		
110	1.a	Clearing heavy Jungle	1 Sqm	Based on detailed analysis as per MoRTH Data
111	B	Clearing light Jungle	1 Sqm	
112	C	Clearing Scrub Jungle	1 Sqm	
113	D	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	3.70
114	2.a.I	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	19.00
115	Ii	- do - 100 to 200 cm.	Each	44.00
116	2.b.I	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	46.00
117	Ii	- do - 100 to 200 cm.	Each	48.00
118	2.c.I	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	24.00
119	Ii	- do - 100 to 200 cm	Each	35.00
120	d.I	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	24.00
121	Ii	- do - 100 to 200 cm	Each	30.00

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
122	e I	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	30.00
123	Ii	- do - 100 to 200 cm	Each	46.00
124	iii	- do - above 200 cm	Each	75.00
125	f.I	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	24.00
126	Ii	- do - 100 to 200 cm	Each	33.00
127	iii	- do - above 200 cm	Each	41.00
128	3.a	Uprooting and clearing prickly pear jungle	1 Sqm	2.30
129	B	- do - under 2.5 meters height including burning and burrying as directed.	1 Sqm	3.00
130	C	- do - over 2.5 meters height including burning and burrying with an initial lead of conveyance	1 Sqm	3.50
131	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 Sqm	1.90
132	b.I	Clearing alchi, tilla	1 Sq.m	3.80
133	b.ii	Removal of Jammu	1 Sq.m	3.30
134	c.I	Removal of imponea, cornea	1 Sq.m	3.60
135	c.ii	Removal of water hyacinth upto 30 cm thick.	1 Sqm	3.70
136	c.iii	- do - more than 30 cm thick	1 Sq.m	5.00
137	D	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sqm	1.40
		<b>(B) DISMANTLING</b>		
	5.00	<b>DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.</b>		
138	n.(i)	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	62.50
		<b>(C) QUARRYING AND BLASTING</b>		
139	6.00	Blasting and removing hard granite measured in solid	1 cum	Based on detailed analysis of MoRTH Data
	7.00	<b>Drilling holes in hard granite or sheet rock</b>		

Sl.No	S.S. Item No.	Description	Unit	SS RATE FOR 2017-18
1	3	4	5	6
	a)	<b>Manually ( Hand)</b>		
140	I)	20 mm dia meter	1 RM	124.00
141	ii)	25 mm dia meter	1 RM	131.00
142	iii)	36 mm dia meter	1 RM	151.00
	b)	<b>Pneumatic Compressor</b>		
143	I)	20 mm dia meter	1 RM	140.00
144	ii)	25 mm dia meter	1 RM	152.00
145	iii)	36 mm dia meter	1 RM	165.00
	8.00	<b>Grouting the holes with neat cement slurry excluding cost of steel</b>		
146	I)	20 mm dia meter	1 RM/ Each	88.00
147	ii)	25 mm dia meter	1 RM/ Each	111.00
148	iii)	36 mm dia meter	1 RM/ Each	138.00
149		Binding wire	1 Kg	61.00
150		Jute rope	Mtr	8.75
151		De bonding strips	Mtr	11.00
152		Selent	Ltr	69.50
153		Poly sheet 125 microns	1 sqm	18.00
154		Water charges (Rural)	1 kl	77.00
155		Water charges (Urban)	1 kl	103.00

**HIRE CHARGES OF  
PLANT AND MACHINERY  
FOR ROAD & BRIDGE WORKS**

**HIRE CHARGES OF PLANT& MACHNIERY FOR  
ROAD & BRIDGE WORKS FOR THE YEAR 2017-18.**

Sl.No.	Description		Unit	Draft Rates proposed for preparation of SoR 2017-18
	Machine	Activity		
1	2	3	4	5
1	Dozer( D 80 )	Spreading	Per Hour	2561.80
		Cutting		
		Cleaning		
2	Dozer (D50)	Spreading	Per hour	1570.00
		Cutting		
		Cleaning		
3	Mortor Grader	Clearing	Per Hour	3216.00
		Spreading		
		GSB		
		WMM		
4	Hydraulic Excavator	Soil Ordinary	Per Hour	2821.50
		Soil Marshy		
		Soil unsuitable		
5	Front end loader	Soil loading	Per Hour	1646.00
		Aggregate loading	Per Hour	
6	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	924.10
			Per Km.	6.00
7	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2638.90
		WMM		
8	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1131.00

Sl.No.	Description		Unit	Draft Rates proposed for preparation of SoR 2017-18
	Machine	Activity		
1	2	3	4	5
9	Water tanker 8 Kilolitre	Water transport	Per Hour	880.50
10	Water tanker 6 Kilolitre	Water transport	Per Hour	624.00
11	Tractor	Pulling	Per Hour	415.00
12	Tractor with rotavator/Grader	Scarifying	Per Hour	422.00
13	Tractor with ripper attachment	Scarifying	Per Hour	507.50
14	Air Compressor 5 cmm(electric)	General purpose	Per Hour	521.20
15	Wet mix plant 60 TPH	Wet mix	Per Hour	1646.00
16	Mechanical broom Hydraulic	Surface cleaning	Per Hour	357.00
17	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1498.00
18	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	860.00
19	Hot mix Plant - 120 TPH capacity	DBM/BM/SDC	Per Hour	28175.00
		/Premix		
20	Hot mix Plant - 100 TPH	DBM/BM/SDC	Per Hour	24171.00

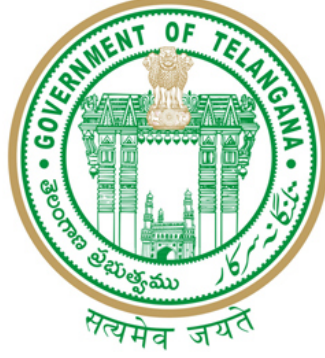


Sl.No.	Description		Unit	Draft Rates proposed for preparation of SoR 2017-18
	Machine	Activity		
1	2	3	4	5
	capacity	/Premix		
21	Hot mix Plant - 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	21668.00
22	Hot mix Plant - 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	19120.00
23	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3059.51
24	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2249.00
25	Hydraulic Chip Spreader	Surface dressing	Per Hour	2567.00
26	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1646.00
27	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1283.00
28	Pot-Hole repair machine	Repair of pot-holes	Per Hour	845.00
29	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	209.00
30	GSB Plant 50 Cum	Producing GSB	Per Hour	1143.00
31	Mastic Cooker	Mastic wearing coat	Per Hour	65.00
32	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1231.90
	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1080.90

Sl.No.	Description		Unit	Draft Rates proposed for preparation of SoR 2017-18
	Machine	Activity		
1	2	3	4	5
33	Transit mixer	Transportation of concrete mix	Per Hour	1917.50
34	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	803.00
35	Cranes			
	(a) 80 tonnes	Lifting purpose	Per Hour	1171.00
	(b) 35 tonnes			791.00
	(c) 3 tonnes			352.00
	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2160.00
	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	3532.00
36	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	15.80
37	Kerb casting machine	Kerb making	Per Hour	311.00
38	Concrete mixer	Concrete mixing	Per Hour	472.60
	(a)0.28 cum			
	(b) 1.0 cum	Concrete mixing	Per Hour	649.00
39	Piling rig with bentonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	5475.00
40	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	2900.00
41	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	8712.00
		Crushing of spalls 200 TPH	Per Hour	18369.00
42	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	141.00

Sl.No.	Description		Unit	Draft Rates proposed for preparation of SoR 2017-18
	Machine	Activity		
1	2	3	4	5
43	Generator	Generation of electric energy		
	250 KVA		per hour	1850.00
	125 KVA		per hour	1320.00
	100 KVA		per hour	1126.00
	30 KVA		per hour	842.20
44	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	56.00
45	Truck 5.5 cum per 10 tonnes	Material transport	Per Km.	891.90
46	Road marking Machine	Road marking	Per Hour	111.00
47	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1126.00
48	Plate compacter	For compacting in medians	Per Hour	48.00
49	Drilling equipment	For drilling	Per Hour	828.00
	<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: 2017-2018

COMMITTEE OF CHIEF ENGINEERS

**SCHEDULE OF RATES  
FOR  
BUILDINGS WORKS**

**FOR THE YEAR 2017-2018  
(Effective from 1<sup>st</sup> June, 2017)**

**ALL ENGINEERING DEPARTMENTS**

Office of the Engineer-in-Chief (R&B)  
NH, CRF, LWE & Buildings  
Convener-Member,  
Committee of Chief Engineers-Buildings-SoR

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**Procs. No. ENC(B)/DEE1/SAA3/ B-SoR: 2017-18**

**Dt: 02-06-2017.**

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works - Telangana Buildings-SoR:2017-18 - 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: 30-05-2017.

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**The Government have constituted a Committee of Chief Engineers of Engineering departments dealing with Building works for finalizing and communicating Buildings-SoR (Civil & Electrical) vide G.O. 1<sup>st</sup> cited. In accordance therewith the Committee of Chief Engineers has finalized and approved the Telangana Buildings-SoR: 2017-18 in the Minutes of Meeting held on 30-05-2017.**

**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-2017-18 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: 2017-18. 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: **2017-18**-CD as above

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

To

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

## INDEX FOR CIVIL ITEMS OF TELANGANA BUILDINGS SoR: 2017-18

Sl. No	SECTION	ITEM CODE	DESCRIPTION OF THE ITEM	FROM	TO
<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>		
I	SUB-SECTION	TBSC-A.I-01 - 02	ORDINARY CLAY BRICKS		
II	SUB-SECTION	TBSC-A.II-01 - 14	FLY-ASH CEMENT/LIME SOLID BLOCKS		
III	SUB-SECTION	TBSC-A.III-01 - 04	AUTOCLAVED CONCRETE BLOCKS		
<b>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>		
I	SUB-SECTION	TBSC-B.I-01-09	LOCALLY AVAILABLE FLOORING STONES		
II	SUB-SECTION	TBSC-B.II-01-04	NATURAL FLOORING STONES - MARBLE		
III	SUB-SECTION	TBSC-B.III-01-04	NATURAL FLOORING STONES - GRANITE		
<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>		
I	SUB-SECTION	TBSC-C.I-01 -04	NON-PORCELAIN CERAMIC FLOOR TILES		
II	SUB-SECTION	TBSC-C.II-01-16	PORCELAIN VITRIFIED FLOOR TILES		
III	SUB-SECTION	TBSC-C.III-01-03	CERAMIC WALL TILES		
IV	SUB-SECTION	TBSC-C.IV-01-14	PORCELAIN WALL TILES		
V	SUB-SECTION	TBSC-C.V-01-04	GLASS MOSAIC TILES		
VI	SUB-SECTION	TBSC-C.VI-01-04	WALL CLADDING TILES		
VII	SUB-SECTION	TBSC-C.VII-01-03	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED)		
VIII	SUB-SECTION	TBSC-C.VIII-01-08	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
IX	SUB-SECTION	TBSC-C.IX-01-06	PRE-CAST CONCRETE BLOCKS FOR PAVING		
X	SUB-SECTION	TBSC-C.X-01-03	VINYL FLOORING		
<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>		
I	SUB-SECTION	TBSC-D.I-01-04	MEDIUM TEAK WOOD		
II	SUB-SECTION	TBSC-D.II-01-04	BEST TEAK WOOD		
III	SUB-SECTION	TBSC-D.III-01-04	BURMA TEAK WOOD		
IV	SUB-SECTION	TBSC-D.IV-01-02	ASSAM TEAK WOOD		
V	SUB-SECTION	TBSC-D.V-01-02	SAL/ COUNTRY WOOD		
VI	SUB-SECTION	TBSC-D.VI-01-19	ROOFING MATERIAL		
<b>E</b>	<b>SECTION</b>		<b>STEEL MATERIALS</b>		
			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
I	SUB-SECTION	TBSC-E.I-01-15	MILD STEEL MATERIALS		
II	SUB-SECTION	TBSC-E.II-01-11	GALVANIZED STEEL MATERIALS		



III	SUB-SECTION	TBSC-E.III-01-02	STAINLESS STEEL MATERIALS		
<b>F</b>	<b>SECTION</b>		<b>GLASS MATERIALS</b>		
			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
I	SUB-SECTION	TBSC-F.I-01-06	PLAIN GLASS PANES		
II	SUB-SECTION	TBSC-F.II-01-02	PIN HEADED GLASS PANES		
III	SUB-SECTION	TBSC-F.III-01-06	TINTED GLASS PANES		
IV	SUB-SECTION	TBSC-F.IV-01-02	FROSTED/ GROUND GLASS PANES		
V	SUB-SECTION	TBSC-F.V-01-05	TOUGHENED GLASS PANES		
<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>		
I	SUB-SECTION	TBSC-G.I-01-19	PRIMERS, FILLERS & BASES		
II	SUB-SECTION	TBSC-G.II-01-04	DISTEMPER PAINTS		
III	SUB-SECTION	TBSC-G.III-01-03	EMULSION BASED PAINTS		
IV	SUB-SECTION	TBSC-G.IV-01-02	SOLVENT BASED PAINTS		
V	SUB-SECTION	TBSC-G.V-01-02	OIL BASED ENAMEL PAINTS		
VI	SUB-SECTION	TBSC-G.VI-01-02	TEXTURE PAINTS		
VII	SUB-SECTION	TBSC-G.VII-01-04	SPECIAL PAINTS		
<b>H</b>	<b>SECTION</b>		<b>PARTICLE BOARDS</b>		
			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
I	SUB-SECTION	TBSC-H.I-01-10	MELAMINE FACED PLAIN PARTICLE BOARD		
II	SUB-SECTION	TBSC-H.II-01-06	INSULATING PARTICLE BOARDS		
III	SUB-SECTION	TBSC-H.III-01-52	MEDIUM DENSITY FIBRE BOARDS		
IV	SUB-SECTION	TBSC-H.IV-01-25	CEMENT BONDED PARTICLE BOARDS		
<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>		
I	SUB-SECTION	TBSC-J.I-01-07	MOISTURE RESISTANT (MR) GRADE		
II	SUB-SECTION	TBSC-J.II-01-07	BOILING WATER RESISTANT (BWR) GRADE		
III	SUB-SECTION	TBSC-J.III-01-06	VENEERED DECORATIVE PLYWOOD		
IV	SUB-SECTION	TBSC-J.IV-01-06	LAMINATES		
V	SUB-SECTION	TBSC-J.V-01-02	COMMERCIAL VENEERS		
<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>		
I	SUB-SECTION	TBSC-K.I-01-30	FALSE CEILINGS - TILES/ SHEETS		
II	SUB-SECTION	TBSC-K.II-01-24	FALSE CEILINGS - SECTIONS & ACCESSORIES		
III	SUB-SECTION	TBSC-K.III-01-12	WALL LINING & PANELLING		
IV	SUB-SECTION	TBSC-K.IV-01-18	PARTITIONS		
<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>		
I	SUB-SECTION	TBSC-L.I-01-20	DOOR FRAMES		
II	SUB-SECTION	TBSC-L.II-01-26	DOOR SHUTTERS WITHOUT FRAMES		
III	SUB-SECTION	TBSC-L.III-01-29	DOORS WITH SHUTTERS & FRAMES		
IV	SUB-SECTION	TBSC-L.IV-01-04	CUP-BOARD DOORS		
<b>M</b>	<b>SECTION</b>		<b>WINDOWS</b>		

			<b>(Landing cost - including material VAT, loading, cost of conveyance, unloading &amp; stacking)</b>		
I	SUB-SECTION	TBSC-M.I-01-29	OPENABLE WINDOWS		
II	SUB-SECTION	TBSC-M.II-01-15	SLIDING WINDOWS		
III	SUB-SECTION	TBSC-M.III-01-08	VENTILLATORS		
<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>		
I	SUB-SECTION	TBSC-N.I-01-05	FIXED GLAZING		
II	SUB-SECTION	TBSC-N.II-01-02	STRUCTURAL GLAZING		
III	SUB-SECTION	TBSC-N.III-01-01	CURTAIN WALLING		
<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>		
I	SUB-SECTION	TBSC-P.I-01-24	TOWER BOLTS		
II	SUB-SECTION	TBSC-P.II-01-22	HINGES		
III	SUB-SECTION	TBSC-P.III-01-18	DOOR HANDLES		
IV	SUB-SECTION	TBSC-P.IV-01-12	ALDROPS		
V	SUB-SECTION	TBSC-P.V-01-08	LATCHES		
VI	SUB-SECTION	TBSC-P.VI-01-04	DOOR CLOSURES		
VII	SUB-SECTION	TBSC-P.VII-01-05	FLOOR SPRINGS		
VIII	SUB-SECTION	TBSC-P.VIII-01-02	MORTICE LOCKS		
IX	SUB-SECTION	TBSC-P.IX-01-09	OTHER ACCESSORIES		
<b>Q</b>	<b>SECTION</b>		<b>CONSTRUCTION CHEMICALS &amp; ADMIXTURES</b>		
			<b>Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.</b>		
I	SUB-SECTION	TBSC-Q.I-01-07	PLASTICIZERS		
II	SUB-SECTION	TBSC-Q.II-01-11	WATER PROOFING COMPOUNDS		
III	SUB-SECTION	TBSC-Q.III-01-06	BONDING AGENTS		
IV	SUB-SECTION	TBSC-Q.IV-01-04	ANTI-CORROSIVE AGENTS		
V	SUB-SECTION	TBSC-Q.V-01-05	GROUTS		
VI	SUB-SECTION	TBSC-Q.VI-01-22	MISCELLANEOUS CHEMICALS		
VII	SUB-SECTION	TBSC-Q.VII-01-12	REPAIRING & TREATMENT WORKS		
VIII	SUB-SECTION	TBSC-Q.VIII-01-11	EXPANSION JOINTS		
<b>R</b>	<b>SECTION</b>	TBSC-R.I-01-51	<b>MISCELLANEOUS ITEMS</b>		
<b>S</b>	<b>SECTION</b>	TBSC-S.I-01-14	<b>MACHINERY &amp; OTHER HIRE CHARGES</b>		
<b>T</b>	<b>SECTION</b>	TBSC-T.I-01-55	<b>LABOUR CHARGES</b>		
<b>U</b>	<b>SECTION</b>	TBSC-U.I-01-15	<b>DISMANTLING</b>		

# PREAMBLE

## 1.0 INTRODUCTION

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 2<sup>nd</sup> meeting of the above "SoR Committee for Telangana Buildings (Civil & Electrical)" was convened on 30-05-2017 with an objective to finalize and release the first Telangana Buildings-SoR: 2017-18.

## 2.0 APPLICABILITY OF COMMON SoR - 2017-18

The rates of labour, common materials & work items, Public Health items, conveyance rates of materials & hire charges approved and published in Common SoR-2017-18 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 and whereas the Works Insurance - 'Contractors All Risk' policy is dispensed with for all the Building works.
- b. It is reiterated that the provision of 'Over Heads and Contractor's Profit' is applicable to Building works since the advent of the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009 and this component shall be operative on all the data items of the estimates and rates of the finished items published in Buildings SoR for original works subjected to the fulfilment of the conditions given below:
  - i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
  - ii. Office furniture, equipment and communications.
  - iii. Expenditure on:
    - a) Corporate office of contractor.
    - b) Technical agents for site supervision. (Reimbursement to the technical agents provision is dispensed with where 'over heads and contractor's profit' provision is included in the data rates)
    - c) Documentation and "as built" drawings.
    - d) Mobilization/ de-mobilization of resources.
    - e) Labour camps with minimum amenities and transportation to work sites.

- f) Light vehicles for site supervision including administrative and managerial requirements.
  - g) Laboratory equipment and quality control including field and laboratory testing. (For all the works costing more than Rs. 2.00 Crores contractors have to establish Quality Control laboratory)
  - h) Minor T & P and survey instruments and setting outworks, including verification of line, dimensions, etc.
  - i) Watch and ward.
  - j) Traffic management/ Safety management during construction.
  - k) Expenditure on safeguarding environment.
- iv. Sundries.
- v. Financing Expenditure.
- vi. **Exclusive** of Sales/ Turn over tax. (This is a material VAT component only, however the provision towards Works Contract Value Added Tax at 5% or as applicable on the finished work items as defined in APVAT Act-2005 shall be added in the estimates)
- i. Work Insurance/ compensation - Works insurance is dispensed with vide G.O. Ms. No: 61 Irrigation & CAD (PW: Reforms) Department Dt. 25-06-2013.
- c. If it is determined by the Executive Engineers that the provision of "Over Heads and Contractor's Profit" is not required to be allowed in respect of works or small/ petty works or supply nature items or maintenance nature of works, then this provision can be excluded irrespective of value of work.

#### 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: 2017-18.
2. The Electrical items and corresponding rates as approved and proposed by the Superintending Engineer (R&B) Electrical shall be considered in the Buildings SoR-2017-18.
3. The Committee of Chief Engineers has agreed to approve the draft Telangana Buildings SoR:2017-18 based on the increase in rates of certain materials of items based on the market rates & Whole Sale Price Indices published by the Economic Advisor, Government of India.

4. The Committee has resolved to extend the 'Over Heads and Contractor's Profit @ 13.615%' in the data rates of all the building works including all Electrical and Water Supply & items on all original works subjected to the fulfilment of the conditions given in the Preamble and the Guidelines published in the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009.
5. The applicability of GST (Goods & Service Tax) on works contract is yet to be announced by the Government. Separate instructions will be issued on the mode and rate of GST as applicable on works contract as per the orders of the Government.

## **5.0 CONCLUSION**

1. The Committee of Chief Engineers on Buildings-SoR: 2017-18 (Civil & Electrical) has met in the chambers of Chief Engineer (R&B) Buildings, on 30-05-2017 at 3.00 P.M. and approved the Telangana Buildings SoR:2017-18. The increase in rates of certain materials of items is considered based on the market rates & Whole Sale Price Indices published by the Economic Advisor, Government of India.
2. SSR Rates for Civil, Sanitary & water supply items are purely for the guidance of the officers in preparation of estimates vide Para 113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in Para 45 of APPWD code.
3. The rates published in the Buildings SoR are ceiling rates and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

# CIVIL ITEMS

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
<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	Each	6.00
2	TBSC-A.I-02	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Modular or traditional size 19 x 9 x 9 cm	Each	7.00
<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 - 7.5 290 x 225 x 140 mm	Each	26.00
4	TBSC-A.II-02	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 200 x 140 mm	Each	24.00
5	TBSC-A.II-03	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 150 x 140 mm	Each	21.00
6	TBSC-A.II-04	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 290 x 112/100 x 140 mm	Each	15.00
7	TBSC-A.II-05	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 225 x 100 x 60 mm	Each	8.00
8	TBSC-A.II-06	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 145 x 225 x 140 mm	Each	16.00
9	TBSC-A.II-07	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 145 x 200 x 140 mm	Each	13.00
10	TBSC-A.II-08	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 225 x 140 mm	Each	25.00
11	TBSC-A.II-09	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 200 x 140 mm	Each	20.00
12	TBSC-A.II-10	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 150 x 140 mm	Each	21.00
13	TBSC-A.II-11	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 290 x 112/100 x 140 mm	Each	12.00
14	TBSC-A.II-12	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 225 x 100 x 60 mm	Each	6.00
15	TBSC-A.II-13	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 145 x 225 x 140 mm	Each	13.00
16	TBSC-A.II-14	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 145 x 200 x 140 mm	Each	12.00
<b>III</b>	<b>SUB-SECTION</b>	<b>AUTOCLAVED CONCRETE BLOCKS</b>		



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	59.00
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	86.00
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	115.00
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	130.00
<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>		
21	TBSC-B.I-01	Shahabad /Tandur Rough Stone slabs of all sizes up to 25 mm in thickness	1 Sqm	100.00
22	TBSC-B.I-02	Shahabad / Tandur Rough Stone slabs of all sizes between 25 mm - 40 mm thickness	1 Sqm	129.00
23	TBSC-B.I-03	Polished Shahabad/ Tandur stone slabs of all sizes between 15 - 18 mm thickness	1 Sqm	172.00
24	TBSC-B.I-04	Kadapa slabs of 40 mm thick of all sizes	1 Sqm	100.00
25	TBSC-B.I-05	Kadapa slabs of 50 mm thick of all sizes	1 Sqm	115.00
26	TBSC-B.I-06	Polished black Kadapa slabs of all sizes between 15 - 18 mm thickness	1 Sqm	144.00
27	TBSC-B.I-07	Polished black Kadapa slabs of all sizes between 25 - 30 mm thickness	1 Sqm	172.00
28	TBSC-B.I-08	Polished White Bethamcherla (marble type) stone of all sizes and between 22-25 mm thickness	1 Sqm	401.00
29	TBSC-B.I-09	Polished Coloured Bethamcherla (marble type) stone of all sizes and between 22-25 mm thickness	1 Sqm	287.00
<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	757.00
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	612.00
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	1,038.00
33	TBSC-B.II-04	Polished Marble Tiles of 8 - 10 mm thickness of all sizes and varieties	1 Sqm	495.00
<b>III</b>	<b>SUB-SECTION</b>	<b>NATURAL FLOORING STONES - GRANITE</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	3,570.00
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	3,102.00
36	TBSC-B.III-03	High Polished Granite 16 to 18 mm thick up to 8'-00 (2.43 M) black	1 Sqm	2,637.00
37	TBSC-B.III-04	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 Sqm	1,210.00
<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	468.00
39	TBSC-C.I-02	Supply of Non-skid red or white full body Ceramic floor tiles of size 400 x 400 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	551.00
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	571.00
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	655.00
<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	551.00
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	623.00
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	571.00
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	1 Sqm	1,166.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		designs		
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	976.00
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	1,246.00
48	TBSC-C.II-07	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of size 1000 x 1000 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,581.00
49	TBSC-C.II-08	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 800 x 800 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,079.00
50	TBSC-C.II-09	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 900 x 900 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,323.00
51	TBSC-C.II-10	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 1000 x 1000 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,558.00
52	TBSC-C.II-11	Supply of digital / polished glazed full body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and of size 1200 x 600 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,246.00
53	TBSC-C.II-12	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 10-12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	831.00
54	TBSC-C.II-13	Supply of full body heavy duty industrial variety /	1 Sqm	1,257.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
55	TBSC-C.II-14	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 18-20 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,444.00
56	TBSC-C.II-15	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 400 x 400 mm and thickness between 10 -12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	571.00
57	TBSC-C.II-16	Supply of full body heavy duty industrial variety porcelain vitrified tile of size 600 x 600 mm and thickness between 10 - 12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,445.00
<b>III</b>	SUB-SECTION	<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	1 Sqm	686.00
59	TBSC-C.III-02	Supply of glazed red or white full body ceramic wall tiles of size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	758.00
60	TBSC-C.III-03	Supply of glazed red or white full body ceramic wall tiles of size 300 x 600 mm and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	847.00
<b>IV</b>	SUB-SECTION	<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	1 Sqm	718.00
62	TBSC-C.IV-02	Supply of digital / polished glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	718.00
63	TBSC-C.IV-03	Supply of digital / polished glazed full body porcelain highlighter wall tiles of size 300 x 600 mm	1 Sqm	826.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
64	TBSC-C.IV-04	Supply of screen printed glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	831.00
65	TBSC-C.IV-05	Supply of glazed full body porcelain wall tiles of size 400 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,024.00
66	TBSC-C.IV-06	Supply of glazed full body porcelain wall tiles of size 600 x 800 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 7-9 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,178.00
67	TBSC-C.IV-07	Supply of glazed full body porcelain premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 14-16 mm and wall tiles of thickness 8-10 mm but excluding highlighters 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,260.00
68	TBSC-C.IV-08	Supply of glazed full body porcelain premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 14-16 mm and wall tiles of thickness 8-10 mm but including highlighters 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1,291.00
69	TBSC-C.IV-09	Providing and fixing wall dado with epoxy emulsion grout/ synthetic/ resin based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	344.00
70	TBSC-C.IV-10	Providing and fixing wall dado with cement based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	174.00
71	TBSC-C.IV-11	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with epoxy emulsion grout/ synthetic / resin adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles.	1 Sqm	363.00
72	TBSC-C.IV-12	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with cement	1 Sqm	183.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		based adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles .		
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	725.00
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	366.00
<b>V</b>	SUB-SECTION	<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	1,360.00
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	306.00
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	118.00
<b>VI</b>	SUB-SECTION	<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	779.00
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	447.00
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	465.00
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	594.00
<b>VII</b>	SUB-SECTION	<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	299.00
83	TBSC-C.VII-02	Supplying precast terrazzo plain tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick any coloured shades.	1 Sqm	318.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	326.00
<b>VIII</b>	SUB-SECTION	<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	281.00
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	295.00
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	299.00
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	314.00
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	326.00
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	343.00
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	489.00
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	514.00
<b>IX</b>	SUB-SECTION	<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	348.00
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	376.00
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	1 Sqm	538.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		specification		
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	593.00
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	674.00
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	883.00
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	605.00
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	438.00
<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	83,150.00
103	TBSC-D.I-02	Medium Teak Wood scantlings: 2.0 to 3.0 M	1 cum	92,389.00
104	TBSC-D.I-03	Medium Teak Wood scantlings: above 3.0 M	1 cum	1,01,629.00
105	TBSC-D.I-04	Medium Teak Wood Planks: any thickness	1 cum	1,66,300.00
<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	1,43,203.00
107	TBSC-D.II-02	Best Teak Wood scantlings: 2.0 to 3.0 M	1 cum	1,52,442.00
108	TBSC-D.II-03	Best Teak Wood scantlings: above 3.0 M	1 cum	1,61,681.00
109	TBSC-D.II-04	Best Teak Wood Planks: any thickness	1 cum	1,80,159.00
<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	1,96,776.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
111	TBSC-D.III-02	Burma Teak Wood scantlings: 2.0 to 3.0 M	1 cum	2,02,396.00
112	TBSC-D.III-03	Burma Teak Wood scantlings: above 3.0 M	1 cum	2,12,878.00
113	TBSC-D.III-04	Burma Teak Wood Planks: any thickness	1 cum	2,30,510.00
<b>IV</b>	SUB-SECTION	<b>ASSAM TEAK WOOD</b>		
114	TBSC-D.IV-01	Assam Teak Wood scantlings: any length	1 cum	52,751.00
115	TBSC-D.IV-02	Assam Teak Wood Planks: any thickness	1 cum	76,490.00
<b>V</b>	SUB-SECTION	<b>SAL/ COUNTRY WOOD</b>		
116	TBSC-D.V-01	Sal Wood scantlings: any length	1 cum	51,279.00
117	TBSC-D.V-02	Sal Wood Planks: any thickness	1 cum	68,374.00
<b>VI</b>	SUB-SECTION	<b>ROOFING MATERIAL</b>		
118	TBSC-D.VI-01	A.C sheet Corrugated 6 mm thick	1 Sqm	231.00
119	TBSC-D.VI-02	A.C sheet plain 4 m thick	1 Sqm	166.00
120	TBSC-D.VI-03	A.C sheet plain 6 m thick	1 Sqm	172.00
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	63.00
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	474.00
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	462.00
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	416.00
125	TBSC-D.VI-08	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	391.00
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	319.00
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	285.00
128	TBSC-D.VI-11	Supply of UV resistant multi-wall polycarbonate sheets for roofing of any colour - 6 mm thick	1 Sqm	1,340.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
129	TBSC-D.VI-12	Aluminium universal glazing set 40 mm wide for jointing and fixing polycarbonate sheets	1 RM	133.00
130	TBSC-D.VI-13	75 mm long screws -	1 Each	5.00
131	TBSC-D.VI-14	G.I scam bolts & nuts	1 Each	6.00
132	TBSC-D.VI-15	G.I bolts & nuts	1 Each	6.00
133	TBSC-D.VI-16	G.I 'J' bolts 8 mm Diameter	1 Each	11.00
134	TBSC-D.VI-17	G.I Washers	1 Each	2.00
135	TBSC-D.VI-18	Limpet washers (for scam & 'J' bolts)	1 Each	2.00
136	TBSC-D.VI-19	Bitumen washers	1 Each	2.00
<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	3,713.00
138	TBSC-E.I-02	Supplying & fixing collapsible steel shutters with vertical, double channel of 20 x10x2 mm of 100 mm centre ,Bracers with flat iron 40x40x6 mm with 38 mm Diameter steel pulleys, the top, bottom and side vertical frames of the collapsible gate with 65x65mmx8mm MS Angle and middle guide rail at site height with 65mmx8mm MS flat for the pulleys to guide and fixed with necessary hold fasts, bolts, nuts, rivets, locking arrangements, stoppers, handles, all accessories all fixtures and painted with one coat of approved steel primer etc., complete for finished item of work as per special Spec 1105	1 Sqm	3,249.00
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	152.00
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	152.00
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	152.00
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	208.00
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	208.00
144	TBSC-E.I-08	Expanded metal sheets as per IS-412-1962- Medium	1 Sqm	208.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.60 mm thick		
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	237.00
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	237.00
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	237.00
148	TBSC-E.I-12	Rabbit wire mesh (chicken mesh) of not less than 30 gauge	1 Sqm	18.00
149	TBSC-E.I-13	Country Nails	1 Kg	64.00
150	TBSC-E.I-14	Wire Nails	1 Kg	64.00
151	TBSC-E.I-15	Mild Steel Tubes & pipes of all Diameters as per IS-1161	1 Kg	64.00
<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	86.00
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	86.00
154	TBSC-E.II-03	Galvanized Iron fly proof wire mesh of not less than 20 gauge	1 Sqm	226.00
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	496.00
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	393.00
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	335.00
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	249.00
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	597.00
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	496.00
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	408.00
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	319.00
<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	406.00
164	TBSC-E.III-02	Stainless steel fly proof wire mesh of not less than 20 gauge	1 Sqm	548.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
<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>	SUB-SECTION	<b>PLAIN GLASS PANES</b>		
165	TBSC-F.I-01	Plain Float Glass 4 mm thick	<b>1 Sqm</b>	<b>458.00</b>
166	TBSC-F.I-02	Plain Float Glass 5 mm thick	<b>1 Sqm</b>	<b>580.00</b>
167	TBSC-F.I-03	Plain Float Glass 6 mm thick	<b>1 Sqm</b>	<b>720.00</b>
168	TBSC-F.I-04	Plain Float Glass 8 mm thick	<b>1 Sqm</b>	<b>968.00</b>
169	TBSC-F.I-05	Plain Float Glass 10 mm thick	<b>1 Sqm</b>	<b>1,019.00</b>
170	TBSC-F.I-06	Plain Float Glass 12 mm thick	<b>1 Sqm</b>	<b>1,222.00</b>
<b>II</b>	SUB-SECTION	<b>PIN HEADED GLASS PANES</b>		
171	TBSC-F.II-01	Pin headed Glass 4 mm thick	<b>1 Sqm</b>	<b>344.00</b>
172	TBSC-F.II-02	Pin headed Glass 5 mm thick	<b>1 Sqm</b>	<b>447.00</b>
<b>III</b>	SUB-SECTION	<b>TINTED GLASS PANES</b>		
173	TBSC-F.III-01	Tinted - Bronze/ Green Glass 4 mm thick	<b>1 Sqm</b>	<b>535.00</b>
174	TBSC-F.III-02	Tinted - Bronze/ Green Glass 5 mm thick	<b>1 Sqm</b>	<b>669.00</b>
175	TBSC-F.III-03	Tinted - Bronze/ Green Glass 6 mm thick	<b>1 Sqm</b>	<b>802.00</b>
176	TBSC-F.III-04	Tinted - Bronze/ Green Glass 8 mm thick	<b>1 Sqm</b>	<b>1,147.00</b>
177	TBSC-F.III-05	Tinted - Bronze/ Green Glass 10 mm thick	<b>1 Sqm</b>	<b>1,337.00</b>
178	TBSC-F.III-06	Tinted - Bronze/ Green Glass 12 mm thick	<b>1 Sqm</b>	<b>1,605.00</b>
<b>IV</b>	SUB-SECTION	<b>FROSTED/ GROUND GLASS PANES</b>		
179	TBSC-F.IV-01	Frosted / Ground Glass 4 mm thick	<b>1 Sqm</b>	<b>617.00</b>
180	TBSC-F.IV-02	Frosted / Ground Glass 5 mm thick	<b>1 Sqm</b>	<b>776.00</b>
<b>V</b>	SUB-SECTION	<b>TOUGHENED GLASS PANES</b>		
181	TBSC-F.V-01	Toughened Plain Glass 5 mm (including Glass)	<b>1 Sqm</b>	<b>930.00</b>
182	TBSC-F.V-02	Toughened Plain Glass 6 mm (including Glass)	<b>1 Sqm</b>	<b>1,074.00</b>
183	TBSC-F.V-03	Toughened Plain Glass 8 mm (including Glass)	<b>1 Sqm</b>	<b>1,432.00</b>
184	TBSC-F.V-04	Toughened Plain Glass 10 mm (including Glass)	<b>1 Sqm</b>	<b>1,717.00</b>
185	TBSC-F.V-05	Toughened Plain Glass 12 mm (including Glass)	<b>1 Sqm</b>	<b>2,003.00</b>
<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>	SUB-SECTION	<b>PRIMERS, FILLERS &amp; BASES</b>		
186	TBSC-G.I-01	Supply of water based Cement Primer of Interior Grade- 1	<b>1 Kg</b>	<b>172.00</b>
187	TBSC-G.I-02	Supply of water based Cement Primer of Exterior Grade- 2	<b>1 Kg</b>	<b>219.00</b>
188	TBSC-G.I-03	Supply of wall putty of White Cement or Polymer or Cement based	<b>1 Kg</b>	<b>47.00</b>
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	<b>1 Kg</b>	<b>73.00</b>
190	TBSC-G.I-05	Supply of Red Oxide Primer Paint for iron works of Grade -1	<b>1 Lit</b>	<b>148.00</b>
191	TBSC-G.I-06	Supply of Zinc Chromate Yellow Oxide Primer paint for iron works	<b>1 Lit</b>	<b>212.00</b>
192	TBSC-G.I-07	Supply of Wood Primer	<b>1 Lit</b>	<b>165.00</b>
193	TBSC-G.I-08	Supply of Metal paste (Putty) for steel works	<b>1 Kg</b>	<b>165.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
194	TBSC-G.I-09	Supply of Putty for wood work (Powder chalk)	1 Kg	165.00
195	TBSC-G.I-10	Supply of White Lead	1 Kg	118.00
196	TBSC-G.I-11	Supply of Synthetic clear Varnish	1 Lit	165.00
197	TBSC-G.I-12	Supply of Spirit	1 Lit	116.00
198	TBSC-G.I-13	Supply of Linseed Oil	1 Lit	66.00
199	TBSC-G.I-14	Supply of thinner for melamine polish/ French polish	1 Lit	152.00
200	TBSC-G.I-15	Supply of thinner for Poly-urethane polish	1 Lit	311.00
201	TBSC-G.I-16	Supply of French Polish	1 Lit	215.00
202	TBSC-G.I-17	Supply of ready made Wax Polish	1 Kg	655.00
203	TBSC-G.I-18	Supply of wood adhesive compound	1 Kg	256.00
204	TBSC-G.I-19	Supply of anti-corrosive grade - 1 bitumen paint of black colour	1 Lit	591.00
<b>II</b>	SUB-SECTION	<b>LIME, DISTEMPERS &amp; CEMENT PAINTS</b>		
205	TBSC-G.II-01	Supply of paint grade lime for white / colour wash	1 Kg	25.00
206	TBSC-G.II-02	Supply of Dry Powder Distemper	1 Kg	49.00
207	TBSC-G.II-03	Supply of acrylic based Oil Bound washable Distemper	1 Kg	94.00
208	TBSC-G.II-04	Supply of Water proof Cement paint	1 Kg	58.00
<b>III</b>	SUB-SECTION	<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/ Lit.	1 Lit	223.00
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/ Lit.	1 Lit	234.00
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/ Lit.	1 Lit	258.00
<b>IV</b>	SUB-SECTION	<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/ Lit.	1 Lit	281.00
213	TBSC-G.IV-02	Supply of synthetic polymer luxury plastic emulsion / solvent based lustre paint of superior grade having VOC (Volatile Organic Compound ) content less than 50 grams/ Lit.	1 Lit	492.00
<b>V</b>	SUB-SECTION	<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/ Lit.	1 Lit	287.00
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/ Lit.	1 Lit	219.00
<b>VI</b>	SUB-SECTION	<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	42.00
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	1 Kg	54.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		minerals in an acrylic binding medium		
<b>VII</b>	SUB-SECTION	<b>SPECIAL PAINTS</b>		
218	TBSC-G.VII-01	Supply of Melamine Polish	<b>1 Lit</b>	<b>363.00</b>
219	TBSC-G.VII-02	Supply of Interior Grade Poly-Urethane Polish	<b>1 Lit</b>	<b>738.00</b>
220	TBSC-G.VII-03	Supply of Exterior Grade Poly-Urethane Polish	<b>1 Lit</b>	<b>902.00</b>
221	TBSC-G.VII-04	Supply of grade-1 aluminium paint	<b>1 Lit</b>	<b>295.00</b>
<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>	SUB-SECTION	<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	<b>1 Sqm</b>	<b>702.00</b>
223	TBSC-H.I-02	Melamine faced Single Deco Plain Particle Board- 12 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>797.00</b>
224	TBSC-H.I-03	Melamine faced Single Deco Plain Particle Board- 18 mm thick conforming to IS 3129	<b>1 Sqm</b>	<b>923.00</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>1,046.00</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>1,739.00</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>808.00</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>923.00</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>1,068.00</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>1,183.00</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>2,222.00</b>
<b>II</b>	SUB-SECTION	<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>262.00</b>
233	TBSC-H.II-02	Natural Colour-Insulating Board - 18 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>387.00</b>
234	TBSC-H.II-03	Natural Colour-Insulating Board - 25 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>493.00</b>
235	TBSC-H.II-04	White Insulating Board - 12 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>319.00</b>
236	TBSC-H.II-05	White Insulating Board - 18 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>456.00</b>
237	TBSC-H.II-06	White Insulating Board - 25 mm thick conforming to IS 3348	<b>1 Sqm</b>	<b>405.00</b>
<b>III</b>	SUB-SECTION	<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>427.00</b>
239	TBSC-H.III-02	Medium Fibre Board: Interior Grade - 8 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>484.00</b>
240	TBSC-H.III-03	Medium Fibre Board: Interior Grade - 12 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>648.00</b>
241	TBSC-H.III-04	Medium Fibre Board: Interior Grade - 15 mm thick conforming to IS 15932	<b>1 Sqm</b>	<b>824.00</b>
242	TBSC-H.III-05	Medium Fibre Board: Interior Grade - 18 mm thick	<b>1 Sqm</b>	<b>919.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		conforming to IS 15932		
243	TBSC-H.III-06	Medium Fibre Board: Interior Grade - 25 mm thick conforming to IS 15932	1 Sqm	1,305.00
244	TBSC-H.III-07	Medium Fibre Board: Interior Grade - 30 mm thick conforming to IS 15932	1 Sqm	1,577.00
245	TBSC-H.III-08	Medium Fibre Board: Interior Grade - 35 mm thick conforming to IS 15932	1 Sqm	1,721.00
246	TBSC-H.III-09	Medium Fibre Board: Exterior Grade - 6 mm thick conforming to IS 15932	1 Sqm	581.00
247	TBSC-H.III-10	Medium Fibre Board: Exterior Grade - 8 mm thick conforming to IS 15932	1 Sqm	676.00
248	TBSC-H.III-11	Medium Fibre Board: Exterior Grade - 12 mm thick conforming to IS 15932	1 Sqm	895.00
249	TBSC-H.III-12	Medium Fibre Board: Exterior Grade - 15 mm thick conforming to IS 15932	1 Sqm	1,125.00
250	TBSC-H.III-13	Medium Fibre Board: Exterior Grade - 18 mm thick conforming to IS 15932	1 Sqm	1,259.00
251	TBSC-H.III-14	Medium Fibre Board: Exterior Grade - 25 mm thick conforming to IS 15932	1 Sqm	1,678.00
252	TBSC-H.III-15	Medium Fibre Board: Exterior Grade - 30 mm thick conforming to IS 15932	1 Sqm	2,090.00
253	TBSC-H.III-16	Medium Fibre Board: Exterior Grade - 35 mm thick conforming to IS 15932	1 Sqm	2,469.00
254	TBSC-H.III-17	MDF Board: Plain-Interior - 9 mm thick conforming to IS 15932	1 Sqm	392.00
255	TBSC-H.III-18	MDF Board: Plain-Interior - 12 mm thick conforming to IS 15932	1 Sqm	445.00
256	TBSC-H.III-19	MDF Board: Plain-Interior - 18 mm thick conforming to IS 15932	1 Sqm	551.00
257	TBSC-H.III-20	MDF Board: Plain-Interior - 25 mm thick conforming to IS 15932	1 Sqm	662.00
258	TBSC-H.III-21	MDF Board: Plain-Interior - 30 mm thick conforming to IS 15932	1 Sqm	1,008.00
259	TBSC-H.III-22	MDF Board: Plain-Interior - 35 mm thick conforming to IS 15932	1 Sqm	1,191.00
260	TBSC-H.III-23	MDF Board: Plain-Exterior - 9 mm thick conforming to IS 15932	1 Sqm	512.00
261	TBSC-H.III-24	MDF Board: Plain-Exterior - 12 mm thick conforming to IS 15932	1 Sqm	551.00
262	TBSC-H.III-25	MDF Board: Plain-Exterior - 18 mm thick conforming to IS 15932	1 Sqm	723.00
263	TBSC-H.III-26	MDF Board: Plain-Exterior - 25 mm thick conforming to IS 15932	1 Sqm	907.00
264	TBSC-H.III-27	MDF Board: Plain-Exterior - 30 mm thick conforming to IS 15932	1 Sqm	1,191.00
265	TBSC-H.III-28	MDF Board: Plain-Exterior - 35 mm thick conforming to IS 15932	1 Sqm	1,374.00
266	TBSC-H.III-29	MDF Board: Interior-One Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	614.00
267	TBSC-H.III-30	MDF Board: Interior-One Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	694.00
268	TBSC-H.III-31	MDF Board: Interior-One Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	807.00
269	TBSC-H.III-32	MDF Board: Interior-One Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	907.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
270	TBSC-H.III-33	MDF Board: Interior-One Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,311.00
271	TBSC-H.III-34	MDF Board: Interior-One Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,398.00
272	TBSC-H.III-35	MDF Board: Exterior-One Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	705.00
273	TBSC-H.III-36	MDF Board: Exterior-One Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	792.00
274	TBSC-H.III-37	MDF Board: Exterior-One Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	897.00
275	TBSC-H.III-38	MDF Board: Exterior-One Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,049.00
276	TBSC-H.III-39	MDF Board: Exterior-One Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,398.00
277	TBSC-H.III-40	MDF Board: Exterior-One Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,485.00
278	TBSC-H.III-41	MDF Board: Interior-Both Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	701.00
279	TBSC-H.III-42	MDF Board: Interior-Both Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	792.00
280	TBSC-H.III-43	MDF Board: Interior-Both Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	907.00
281	TBSC-H.III-44	MDF Board: Interior-Both Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,139.00
282	TBSC-H.III-45	MDF Board: Interior-Both Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,398.00
283	TBSC-H.III-46	MDF Board: Interior-Both Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,485.00
284	TBSC-H.III-47	MDF Board: exterior-Both Side Laminated -9 mm thick conforming to IS 15932	1 Sqm	792.00
285	TBSC-H.III-48	MDF Board: exterior-Both Side Laminated -12 mm thick conforming to IS 15932	1 Sqm	896.00
286	TBSC-H.III-49	MDF Board: exterior-Both Side Laminated -18 mm thick conforming to IS 15932	1 Sqm	1,060.00
287	TBSC-H.III-50	MDF Board: exterior-Both Side Laminated -25 mm thick conforming to IS 15932	1 Sqm	1,159.00
288	TBSC-H.III-51	MDF Board: exterior-Both Side Laminated -30 mm thick conforming to IS 15932	1 Sqm	1,467.00
289	TBSC-H.III-52	MDF Board: exterior-Both Side Laminated -35 mm thick conforming to IS 15932	1 Sqm	1,573.00
<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	166.00
291	TBSC-H.IV-02	Cement Bonded Board conforming to IS:14862-2000 - 6mm Thick	1 Sqm	237.00
292	TBSC-H.IV-03	Cement Bonded Board conforming to IS:14862-2000 - 8mm Thick	1 Sqm	305.00
293	TBSC-H.IV-04	Cement Bonded Board conforming to IS:14862-2000 - 10mm Thick	1 Sqm	350.00
294	TBSC-H.IV-05	Cement Bonded Board conforming to IS:14862-2000 - 12mm Thick	1 Sqm	437.00
295	TBSC-H.IV-06	Cement Bonded Board conforming to IS:14862-2000 - 14mm Thick	1 Sqm	488.00
296	TBSC-H.IV-07	Cement Bonded Board conforming to IS:14862-2000 - 16mm Thick	1 Sqm	555.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
297	TBSC-H.IV-08	Cement Bonded Board conforming to IS:14862-2000 - 18mm Thick	1 Sqm	630.00
298	TBSC-H.IV-09	Cement Bonded Board conforming to IS:14862-2000 - 20mm Thick	1 Sqm	667.00
299	TBSC-H.IV-10	Cement bonded particle board conforming to IS 14276-6 mm thick	1 Sqm	258.00
300	TBSC-H.IV-11	Cement bonded particle board conforming to IS 14276- 8 mm thick	1 Sqm	347.00
301	TBSC-H.IV-12	Cement bonded particle board conforming to IS 14276- 10 mm thick	1 Sqm	437.00
302	TBSC-H.IV-13	Cement bonded particle board conforming to IS 14276- 12 mm thick	1 Sqm	531.00
303	TBSC-H.IV-14	Cement bonded particle board conforming to IS 14276- 16 mm thick	1 Sqm	716.00
304	TBSC-H.IV-15	Cement bonded particle board conforming to IS 14276- 20 mm thick	1 Sqm	861.00
305	TBSC-H.IV-16	Cement bonded particle board conforming to IS 14276- 25 mm thick	1 Sqm	1,090.00
306	TBSC-H.IV-17	Cement bonded particle board conforming to IS 14276- 30 mm thick	1 Sqm	1,308.00
307	TBSC-H.IV-18	Cement bonded particle board conforming to IS 14276- 40 mm thick	1 Sqm	1,744.00
308	TBSC-H.IV-19	Pre-laminated cement bonded particle board-6 mm thick	1 Sqm	602.00
309	TBSC-H.IV-20	Pre-laminated cement bonded particle board-8 mm thick	1 Sqm	650.00
310	TBSC-H.IV-21	Pre-laminated cement bonded particle board- 10 mm thick	1 Sqm	698.00
311	TBSC-H.IV-22	Pre-laminated cement bonded particle board- 12 mm thick	1 Sqm	764.00
312	TBSC-H.IV-23	Pre-laminated cement bonded particle board- 16 mm thick	1 Sqm	849.00
313	TBSC-H.IV-24	50 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1,112.00
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	1,335.00
<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	423.00
316	TBSC-J.I-02	5 Ply - 6 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	467.00
317	TBSC-J.I-03	5 Ply - 8 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	549.00
318	TBSC-J.I-04	5 Ply - 9 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	549.00
319	TBSC-J.I-05	9 Ply - 12 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	688.00
320	TBSC-J.I-06	9 Ply - 15 mm thick Plywood conforming to IS:303 MR Grade	1 Sqm	1,013.00
321	TBSC-J.I-07	9 Ply - 18 mm thick Plywood conforming to IS:303	1 Sqm	993.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		MR Grade		
<b>II</b>	SUB-SECTION	<b>BOILING WATER RESISTANT (BWR) GRADE</b>		
322	TBSC-J.II-01	3 Ply - 4 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>483.00</b>
323	TBSC-J.II-02	5 Ply - 6 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>567.00</b>
324	TBSC-J.II-03	5 Ply - 8 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>706.00</b>
325	TBSC-J.II-04	5 Ply - 9 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>667.00</b>
326	TBSC-J.II-05	9 Ply - 12 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>872.00</b>
327	TBSC-J.II-06	9 Ply - 15 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>1,251.00</b>
328	TBSC-J.II-07	9 Ply - 19 mm thick Plywood conforming to IS:303 BWR Grade	<b>1 Sqm</b>	<b>1,256.00</b>
<b>III</b>	SUB-SECTION	<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	<b>1 Sqm</b>	<b>625.00</b>
330	TBSC-J.III-02	5 Ply - 6 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	<b>1 Sqm</b>	<b>814.00</b>
331	TBSC-J.III-03	5 Ply - 9 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	<b>1 Sqm</b>	<b>1,044.00</b>
332	TBSC-J.III-04	9 Ply - 12 mm thick One side Teak Veneered Decorative Plywood conforming to IS:1328	<b>1 Sqm</b>	<b>1,329.00</b>
333	TBSC-J.III-05	5 Ply - 9 mm thick Both sides Teak Veneered Decorative Plywood conforming to IS:1328	<b>1 Sqm</b>	<b>1,362.00</b>
334	TBSC-J.III-06	9 Ply - 12 mm thick Both sides Teak Veneered Decorative Plywood conforming to IS:1328	<b>1 Sqm</b>	<b>1,588.00</b>
<b>IV</b>	SUB-SECTION	<b>LAMINATES</b>		
335	TBSC-J.IV-01	Melamine Laminate Sheets - Glossy Finish: 1.00 mm thick	<b>1 Sqm</b>	<b>419.00</b>
336	TBSC-J.IV-02	Melamine Laminate Sheets - Glossy Finish: 1.50 mm thick	<b>1 Sqm</b>	<b>600.00</b>
337	TBSC-J.IV-03	Melamine Laminate Sheets - Glossy Finish: 1.80 mm thick	<b>1 Sqm</b>	<b>658.00</b>
338	TBSC-J.IV-04	Melamine Laminate Sheets - Mat Finish: 1.00 mm thick	<b>1 Sqm</b>	<b>445.00</b>
339	TBSC-J.IV-05	Melamine Laminate Sheets - Mat Finish: 1.50 mm thick	<b>1 Sqm</b>	<b>619.00</b>
340	TBSC-J.IV-06	Melamine Laminate Sheets - Mat Finish: 1.80 mm thick	<b>1 Sqm</b>	<b>668.00</b>
<b>V</b>	SUB-SECTION	<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>468.00</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>861.00</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>	SUB-SECTION	<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>292.00</b>
344	TBSC-K.I-02	Gypsum Board tiles of size not less than 0.595 M x	<b>1 Sqm</b>	<b>285.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		0.595 M of 9 mm thick as per IS 2095 -1992		
345	TBSC-K.I-03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 -1993	1 Sqm	258.00
346	TBSC-K.I-04	<b>DELETED</b>	-	-
347	TBSC-K.I-05	14 mm - Mineral Fibre sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 90% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	613.00
348	TBSC-K.I-06	15 mm - Mineral Fibre sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 95% RH, Average NRC 0.50, Light Reflectance >85%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	717.00
349	TBSC-K.I-07	16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.60, Light Reflectance >85%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	772.00
350	TBSC-K.I-08	Designer ceiling Cement Boards -thickness 3.2 mm	1 Sqm	269.00
351	TBSC-K.I-09	High pressure steam cured Cement Boards 4 mm thick	1 Sqm	144.00
352	TBSC-K.I-10	High pressure steam cured Cement Boards 6 mm thick	1 Sqm	216.00
353	TBSC-K.I-11	High pressure steam cured Cement Boards 8 mm thick	1 Sqm	287.00
354	TBSC-K.I-12	High pressure steam cured Cement Boards 10 mm thick	1 Sqm	360.00
355	TBSC-K.I-13	High pressure steam cured Cement Boards 12 mm thick	1 Sqm	431.00
356	TBSC-K.I-14	High pressure steam cured Cement Boards 14 mm thick	1 Sqm	503.00
357	TBSC-K.I-15	High pressure steam cured Cement Boards 16 mm thick	1 Sqm	576.00
358	TBSC-K.I-16	High pressure steam cured Cement Boards 18 mm thick	1 Sqm	646.00
359	TBSC-K.I-17	High pressure steam cured Cement Boards 20 mm thick	1 Sqm	719.00
360	TBSC-K.I-18	High pressure steam cured designer Cement Boards 4 mm thick	1 Sqm	212.00
361	TBSC-K.I-19	High pressure steam cured designer Cement Boards 6 mm thick	1 Sqm	312.00
362	TBSC-K.I-20	Calcium Silicate Boards - 6mm thick	1 Sqm	239.00
363	TBSC-K.I-21	Calcium Silicate Boards - 8mm thick	1 Sqm	319.00
364	TBSC-K.I-22	Calcium Silicate Boards - 10mm thick	1 Sqm	400.00
365	TBSC-K.I-23	Calcium Silicate Boards - 12mm thick	1 Sqm	479.00
366	TBSC-K.I-24	Supply of Thermocol 12 mm thick sheets	1 Sqm	27.00
367	TBSC-K.I-25	Supply of Thermocol 19 mm thick sheets	1 Sqm	48.00
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	458.00
369	TBSC-K.I-27	Supplying and fixing of false ceiling using Plaster of	1 Sqm	381.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
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, labour, one coat of primer (Both side) and two coats of smooth finish on visible side.	1 Sqm	1,305.00
371	TBSC-K.I-29	Providing and fixing false ceiling consisting of 600 mm x 600 mm, 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	1,402.00
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	1,556.00
373		15 mm - Micro Look Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 95% RH, Average NRC 0.90, Light Reflectance >88%, Thermal Conductivity $\lambda = 0.032$ w/mk, Fire Performance Class 0/Class 1 suitable for Green Building application, with Recycled content of 88% (FG)	1 Sqm	1,607.00
374		16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.55, Light Reflectance >84%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	712.00
375		Providing & Fixing of Lay-in-metal plain ceiling System consisting of 600 x 600mm Lay in GI tiles of pre coated galvanized steel in 0.5 mm thickness in white colour to be laid on grid systems with 15mm	1 Sqm	775.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		wide T - section flanges but excluding cost of Grid systems complete for finished item of work		
376		Providing & Fixing of GI Lay in Standard Perforated(2.5mm diameter-16% open area) metal ceiling consisting of 600 x 600 mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color acoustical fleece hot pressed to the back of the perforated tile to be laid on grid systems with 0.5 mm thickness in white colour with 15mm wide T - section flanges but excluding cost of Grid systems and having rotary stitching on the Main Runner, 1200 mm & 600 mm Cross Tees and the tiles with NRC of 0.70, Fire Performance of Class A2-s1.d0 as per EN13501 standard in module size of 600 X 600 mm suitable for Green Building application, with Recycled content of 25% complete for finished item of work	1 Sqm	1,110.00
<b>II</b>	<b>SUB-SECTION</b>	<b>FALSE CEILINGs - SECTIONS &amp; ACCESSORIES</b>		
377	TBSC-K.II-01	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	77.00
378	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	89.00
379	TBSC-K.II-03	G.I. intermediate Section 45 mm x 15 mm x 15 mm x 0.9 mm	1 RM	88.00
380	TBSC-K.II-04	G.I. Perimeter Channel - 20 mm x 27 mm x 30 mm (web) of 0.55 mm thick	1 RM	77.00
381	TBSC-K.II-05	G.I.-Precoated Fine line Grid 25 mm x 25 mm x 0.7 mm	1 RM	43.00
382	TBSC-K.II-06	G.I.-Precoated Fine line Grid 15 mm x 25 mm x 0.7 mm	1 RM	39.00
383	TBSC-K.II-07	GI - Precoated - T-Sec- 24 mm x 38 mm x 0.7 mm thick	1 RM	57.00
384	TBSC-K.II-08	Hot dipped GI Angle - Precoated - Grid: 19 mm x 19 mm	1 RM	42.00
385	TBSC-K.II-09	Polyester painted GI - T Section - 24 x 32 mm	1 RM	52.00
386	TBSC-K.II-10	Polyester painted GI - T Section - 24 x 25 mm	1 RM	47.00
387	TBSC-K.II-11	Polyester painted GI - T Section - 24 mm x 27 mm	1 RM	48.00
388	TBSC-K.II-12	Aluminium Angle : 24 mm x 24 mm	1 RM	27.00
389	TBSC-K.II-13	Anodized Aluminium T Section : 24 x 24.5 x 2.4 mm	1 RM	36.00
390	TBSC-K.II-14	Connecting Clips	1 Each	3.00
391	TBSC-K.II-15	Rawl Plug	1 Each	3.00
392	TBSC-K.II-16	6 mm Nylon Rawl Plug	1 Each	4.00
393	TBSC-K.II-17	Soffit Cleats	1 Each	3.00
394	TBSC-K.II-18	Drywall Screws - 25 mm	1 Each	3.00
395	TBSC-K.II-19	Jointing Compound	1 Kgs	31.00
396	TBSC-K.II-20	Jointing Paper Tape	1 RM	6.00
397	TBSC-K.II-21	Drywall Top Coat	1 Lit	148.00
398	TBSC-K.II-22	Universal Holding Clips	1 Each	4.00
399	TBSC-K.II-23	4 mm Diameter GI Connecting Rod	1 RM	13.00
400	TBSC-K.II-24	2 mm Diameter GI Connecting Rod	1 RM	11.00
<b>III</b>	<b>SUB-SECTION</b>	<b>WALL LINING &amp; PANELLING</b>		
401	TBSC-K.III-01	Providing wooden panelling 12 mm thick prelaminate particle board fixed on wooden frame	1 Sqm	1,880.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
402	TBSC-K.III-02	Perforated wall panels channelled wood works sheets of width 128 mm, thickness of 16mm and length 2440 mm made of a high density particle board substrate with a laminated facing as per the approved shade/ species & finish and a melamine balancing layer on the reverse side, with a special perforation pattern fluted perforation on the visible surface with a minimum sag resistance of RH90 and a fire rating class of 1 as per Part 7 of BS 476 with a "tongue-and-grooved" edges and the back of the perforated panel is with sound absorbing non-woven acoustical fleece	1 Sqm	3,629.00
403	TBSC-K.III-03	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: using 8mmthick Calcium silicate boards	1 Sqm	795.00
404	TBSC-K.III-04	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 10mm thick Calcium silicate boards	1 Sqm	876.00
405	TBSC-K.III-05	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 12mm thick Calcium silicate boards	1 Sqm	955.00
406	TBSC-K.III-06	Supply and fixing of cement board (conforming to IS:14862:2000) wall panelling with frame work made of GI stud profile of size 48 x 40 x 10 x 0.55 mm thick placed at every 610 mm C/C intervals fixed vertically in between floor and roof `U' track of size 50 x 30 x 0.6 mm thick duly fixed with self expansion screws and fixing with self tapping self embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap between two panels of width 2'-0". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 8 mm Cement Bonded Board	1 Sqm	957.00
407	TBSC-K.III-07	Supply and fixing of cement board (conforming to IS:14862:2000) wall panelling 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	1 Sqm	1,101.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
408	TBSC-K.III-08	Supply and fixing Cement Bonded Particle Board conforming to IS 14276 wall panelling 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, labour charges etc. complete as per the direction of Engineer in charge.	1 Sqm	1,722.00
409	TBSC-K.III-09	Supply and fixing of Cement Bonded Pre-laminated Particle Board wall panelling 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, Labour charges etc., complete as per the direction of Engineer in charge	1 Sqm	2,424.00
410	TBSC-K.III-10	Providing and fixing plain PVC rigid foam sheet wall panelling 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 panelling sheet (panel) on it. The exact size of the panel and correspondingly of the grid May be varied depending on the size of the wall. However it must be ensured that a strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck at the places where two panels are joined, using solvent cement. ,	1 Sqm	2,156.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		complete as per direction of Engineer-in-Charge, manufacture's specification & drawing		
411	TBSC-K.III-11	Providing and fixing INSULATED PVC WALL panelling 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	2,269.00
412	TBSC-K.III-12	Supply and fixing of wall panelling 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	1,474.00
<b>IV</b>	<b>SUB-SECTION</b>	<b>PARTITIONS</b>		
413	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	1,269.00
414	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	1,340.00
415	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	1,500.00
416	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	1 Sqm	1,658.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		12mm thick Calcium silicate boards		
417	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/m3 density is to be placed in cavity of the partition. The joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification with out painting for finished item of work	1 Sqm	4,452.00
418	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 moulding surface will be given a smooth finish over cement primer. The rate is inclusive of cost and conveyance of all materials and labour charges etc. complete.	1 Sqm	1,670.00
419	TBSC-K.IV-07	Providing and fixing of 50 mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 5 mm thick non-asbestos fibre reinforced cement sheets (conforming to IS:14862:2000) on either side of the lightweight concrete core composed of Portland cement binders with tongue and groove arrangement. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x52x31 mm fixed to the existing floor with 6x60mm nylon self expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31x52x31 mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 50mm SOLID WALL PANELS, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete	1 Sqm	1,724.00
420	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	1 Sqm	2,058.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.l. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete.		
421	TBSC-K.IV-09	Supply & fixing of 50 mm thick partition with composite panel comprise of two 5mm thick Boards (asbestos-free fibre reinforced cement sheets conforming to IS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. s with unique semi-circular Tongue & Groove Joining System provides better stability, rapid installation and better workability. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x52x31 mm fixed to the existing floor with 6x60mm nylon self-expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31 x 52 x 31 mm duly fixed to the existing ceiling with 6x60mm nylon self-expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the jointing compound in all the exposed joints. The rate includes cost of 50mm S, G.l. Floor and ceiling Channel.	1 Sqm	1,724.00
422	TBSC-K.IV-10	Supply & fixing of 75 mm thick partition with composite panel comprise of two 5mm thick Boards (asbestos-free fibre reinforced cement sheets conforming to IS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. s with unique semi-circular Tongue & Groove Joining System provides better stability, rapid installation and better workability. The bottom of the panel shall be fixed to the floor channel made up of 1 mm thick GI channels of size 28x77x31 mm fixed to the existing floor with 6x60mm nylon self-expansion screws at 600 mm C/C and top of the panel fixed with ceiling channel made out of 0.8 mm thick GI Channel of size 31x77x31 mm duly fixed to the existing ceiling with 6x60mm nylon self-expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the jointing compound in all the exposed joints. The rate includes cost of 75mm S, G.l. Floor	1 Sqm	2,058.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		and ceiling Channel.		
423	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, labour charges etc., complete as per the direction of Engineer in charge.	1 Sqm	2,515.00
424	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	3,466.00
425	TBSC-K.IV-13	Supply and fixing of Cement Bonded Prelaminated Particle Board aluminium 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 aluminium sections anodized to 12 to 15 microns and of sections of size 37mm x 62mm and 1.5mm thickness with one meter centre to centre duly fixed with clip beading on both sides including fixing the frame to pillars by M.S. flats, bolts and nuts including cost and conveyance of all materials etc., complete as directed during execution.	1 Sqm	3,996.00
426	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 moulded "" PVC 'C' channel of size 50X100mm with feathered edges shall be fixed on the floor & 50X75mm with feathered edges plain/printed /prelam PVC 'C'	1 Sqm	3,063.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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 moulded "" 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		
427	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	2,585.00
428	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 moulding 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	1,446.00
429	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 panelled 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	1 Sqm	5,113.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
430	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 panelled with 9mm pre-laminated particle board to a height of 0.91m from the bottom, and remaining height with 5mm thick plain glass With Ethyl Propylene Diametermine Monomer (EPDM) Gaskets. The sections are to be cut to length, mitre joined with corner bracket Centre mullions are to be fixed using mullion cap. Gaskets made of Ethyl Propylene Diametermine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphate. Mullion caps made of Glass filled nylon. The above frames should be fixed to the concrete/masonry wall by means of self expanding screws, and complete for finished item of work Fixed Partition with Door: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm, section for shutter should be of 46x46mm and section for middle & bottom should be of size 23x130mm	1 Sqm	5,831.00
<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>		
431	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 pre-treatment, phosphating with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 Rm	393.00
432	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 pre-	1 RM	723.00

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		treatment, 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		
433	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	338.00
434	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	353.00
435	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 metre-cut/ welded. PVC DOOR FRAME	1 RM	264.00
436	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	208.00
437	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	1RM	228.00

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		<p>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</p>		
438	TBSC-L.I-08	<p>Supply &amp; 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</p>	<b>1 RM</b>	<b>228.00</b>
439	TBSC-L.I-09	<p>Supplying &amp; 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</p>	<b>1 RM</b>	<b>258.00</b>
440	TBSC-L.I-10	<p>Supplying &amp; 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</p>	<b>1 RM</b>	<b>258.00</b>
441	TBSC-L.I-11	<p>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 Aldrops Receiver – 1 No. for single shutter frame. e) Tie Rod – 1 No</p>	<b>1 RM</b>	<b>788.00</b>
442	TBSC-L.I-12	<p>Providing and fixing of door frames factory made, internal door frames without threshold, fabricated</p>	<b>1 RM</b>	<b>493.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
443	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	445.00
444	TBSC-L.I-16	Supply of factory made Precast Reinforced Cement concrete door frame of with overall dimension of 60 x 100 mm for single shutter door (+/-2mm) three nos, of 6mm dia steel bars are used for longitudinal reinforcement for each vertical and horizontal member and are held firmly by 3mm dia ties spaced at not more than 300mm c/c Polymer wonder blocks are provided in the frames for tower bolt and hinges provisions made in the frame for Aldrops provisions are made in the vertical member for fixing of 3 nos. hold-fasts with 8 mm dia bolts and the frame surface shall be smooth without any voids and shall confirm to IS 6523 complete finished item including all taxes as per specifications & the directions of the Engineer-	1 RM	343.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		in-Charge.		
445	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 tower bolt 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>447.00</b>
446	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>260.00</b>
<b>II</b>	<b>SUB-SECTION</b>	<b>DOOR SHUTTERS WITHOUT FRAMES</b>		
447	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>1,982.00</b>
448	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>2,080.00</b>
449	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>2,272.00</b>
450	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>1,130.00</b>
451	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>1,365.00</b>
452	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>1,545.00</b>
453	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>1,750.00</b>
454	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>2,177.00</b>
455	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>2,116.00</b>
456	TBSC-L.II-10	Flush door shutters, solid bond wood block board	<b>1 Sqm</b>	<b>2,343.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		type with teak veneer on one face and commercial ply on another face (lipping): 30 mm thick conforming to IS:2202		
457	TBSC-L.II-11	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 35 mm thick conforming to IS:2202	1 Sqm	2,555.00
458	TBSC-L.II-12	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 40 mm thick conforming to IS:2202	1 Sqm	2,920.00
459	TBSC-L.II-13	Supply and fixing of Cement Bonded Prelaminated Particle Board single door shutter using 16MM Cement Bonded Prelaminated Particle Board with all round section "U" size of mm thick galvanized pre-painted cold rolled steel profiles Cement Bonded Prelaminated Particle Board with necessary screws fixed at every 1'0" (304.8mm) intervals. The cost inclusive of MS Nickel coated 250mm long Aldrops 2 no's , MS powder coated 250mm long tower bolt 1 no's, 2no's MS powder coated 125mm long grip handle, 1 no's M.S.P.C. Door stopper. Including cost and conveyance of all materials at site labour charges etc., complete finished item of work.	1 Sqm	2,544.00
460	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	3,231.00
461	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" intervals. The hardware consists of 250mm long Aldrops - 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, labour transportation charges.	1 Sqm	2,489.00
462	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	1 Sqm	1,713.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		of all materials at site and applying 1 coat of primer, 2 coats of luppam and 2 coats of synthetic enamel paint as per approved design for finished item of work.		
463	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 luppam and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1,467.00
464	TBSC-L.II-18	Supply and fixing door shutter with frame made out of PVC section and panels conforming to IS:10151-1982 having panel sizes of 100 mm x 30 mm with self extruded grooves at 40 mm x 50 mm grooves on front face and the infill panel dimension is 610 mm x 20 mm seamless hollow multi chambered PVC single panel for finished item of work.	1 Sqm	2,710.00
465	TBSC-L.II-19	Moulded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick of Masonite or equivalent doors - 30 mm thick	1 Sqm	1,707.00
466	TBSC-L.II-20	Moulded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick Masonite or equivalent doors - 35 mm thick	1 Sqm	1,866.00
467	TBSC-L.II-21	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 30 mm thick	1 Sqm	1,387.00
468	TBSC-L.II-22	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 35 mm thick	1 Sqm	1,535.00
469	TBSC-L.II-23	Providing and fixing 35mm thick FACTORY MADE MOULDED DOOR SHUTTER consisting of sold 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 moulded Pac sheet with 2,4,6 raised panel design in different panel and / or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing	1 Sqm	3,011.00
470	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	1 Sqm	1,537.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
471	TBSC-L.II-25	Providing of 35mm thick Factory made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides for each shutter and ISI make S.S round lock complete for finished item of work	1 Sqm	7,082.00
472	TBSC-L.II-26	Supply and fixing of Cement Bonded Prelaminated Particle Board door shutter conforming to IS-14276 made out of U sections of size 12 x 18 x 12 made from 0.6mm thick PPS sections with 16 mm Cement Bonded Prelaminated Particle Board with necessary screws fixed at every 1'.0"interwells. The hardware consists of 12 mm dia x 200mm long Aluminium Aldrops - 2 Nos. 125 mm long Handle- 2 Nos. 3 mm x 12 mm x 180 mm long 304 SS hinges- 3 Nos with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The cost is inclusive of all incidentals, labour transportation charges.	1 Sqm	2,727.00
<b>III</b>	<b>SUB-SECTION</b>	<b>DOORS WITH SHUTTERS &amp; FRAMES</b>		
473	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 moulded 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. Panelling 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	2,453.00
474	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	1 Sqm	2,803.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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 moulded 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, 20mm wide cross Pac sheet shall be provided as gap insert for top and bottom rail. Panelling 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.		
475	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 make and manufacture. MS. Frame covered with 5mm thick heat moulded single side Prelam Pac 'C' channel of size 30mmX50mm to form stiles. 5mm thick & 75mm wide single side Prelam Pac sheets shall be for the top, bottom and lock rails. Panelling 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.	1 Sqm	2,544.00
476	TBSC-L.III-04	MOULDED PVC DOOR - WOOD FREE Providing and fixing 30mm thick Brand factory made Moulded door shutter- wood free consisting of frame made	1 Sqm	2,570.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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 moulded Pac sheet with 2,4,6 raised panel design in different plain and / or prelam colours after routing to the moulded 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		
477	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 moulded "" PVC 'C' channel of size 30mm thickness, 90mm width out of which 75mm shall be flat and 15mm shall be flat and 15mm shall be bent in 900 on the inner side to from top and bottom rail land 130mm wide PVC sheet out of which 100mm shall be flat and 154mm shall be bent in 900 on both side to from lock rail, 10mm(5mmX2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panel will be of G.I. wire mesh of 24gauge to be fitted in by 'C' channel of size 35mm X10mm on the either side in the stiles. The inner side 'C' channel is fixed by 19mmX19mm MS. Tube on both sides with screws. The wire mesh in top bottom & lock rail is sealed with15mm X 15mm tube with G.I. wire 10mm(5mmX2) thick PVC strip of 25mm width is to be stuck& nails on both side of G.I. wire mesh interior at the top, bottom & lock rail. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawings	1 Sqm	2,284.00
478	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	1 Sqm	2,018.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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 luppam and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.		
479	TBSC-L.III-07	Doors Frames (Colour Coated Steel Sections) & Shutter using Cement Bonded Particle Board as per IS 14276 (Cement Bonded Particle Board conforming to IS 14276 or equivalent ) : Providing and fixing of door frame made from cold roll formed sections made of galvanized (Base steel as per IS277 with zinc of 120 Gms/sqm) colour coated steel sections with total coated thickness of 1mm, primer coated with epoxy primer coat of 5-7 microns thick, finish paint with polyester paint of 12-16 microns. The Section for door frame is to be filled with polyurethane (P.U) form of 40kg/m3. Overall size of frame section should be of 50mm x 50mm. With necessary corner brackets, stiffeners, hinges, and screws. Cement Bonded particle board shutter (Cement Bonded Particle Board conforming to IS 14276 or equivalent ) "Single Leaf" with all round styles "U" section of size 12m x 18m x 12mm made from 0.6 mm thick galvanized, colour coated cold rolled steel profiles with 16mm thick Cement Bonded particle Board (Cement Bonded Particle Board conforming to IS 14276 or equivalent ) with necessary screws fixed at every 1'-0" (304.8mm) intervals. The cost inclusive of MS nickel coated Aldrops 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 luppam and two coats of synthetic enamel paint as per approved design for finished item of work	1 Sqm	3,992.00
480	TBSC-L.III-08	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) <b>2 Track-2 Panel Sliding Doors</b> duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of 60 mm x 45 mm x 2.20 mm with reinforcement of 1.2 mm thickness, super sash with overall size of 39 mm x 75 mm x 2.20 mm with for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.5 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Door shall be provided with standard hardware & multi point locking system of bent handle espagulate .the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site	1 Sqm	6,491.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
481	TBSC-L.III-09	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding doors with mesh shutter provision - (2-glass shutters)- 95 -Series duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.20 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.20 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Door shall be provided with standard hardware & multi point locking system of Patio/Bent espagulate .the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,302.00
482	TBSC-L.III-10	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding doors with mesh shutter - (2-glass shutters and 1-mesh shutter)- 95 - Series duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.20 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.20 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Mesh shutter shall be made of (48 mm x 30 mm)/(50 mm x 26.5 mm) x 2.0 mm uPVC profile section and fitted with Vinyl Coated Fibre mesh and rollers/pulley duly fixed with TPV Gaskets weathering seal resistant Door shall be provided with standard hardware & multi point locking system of Patio/Roto espagulate and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete	1 Sqm	8,070.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		for finished item of work.		
483	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	1 Sqm	6,988.00
484	TBSC-L.III-12	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) openable doors with openable shutters duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of 60 mm x 55 mm x 2.40 mm for outer frames, 74 mm x 60 mm x 2.40 mm for mullion sections as per the need and 102 mm x 60 mm x 2.40 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gaskets for sash & Glazing bead shall be co-extruded with Grey colour soft PVC System shall be provided with 4 no's of 3D Hinges for each shutter and multipoint locking with keys with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	9,147.00
485	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	1 Sqm	1,078.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
486	TBSC-L.III-14	Supply and fixing of door shutters made of rigid PVC extruded hollow section(Nandi or equivalent ) of 20mm X 200 mm with the wall thickness of 1.0mm +/- 0.1mm equally divided into 4 no's with tongue and groove locking arrangements. The shutter frame is made of 30mm X 79mm with the wall thickness of 1.5mm +/-0.15mm section mitre-cut and joined at 4 corners with 125mm X 225mm plastic brackets. The shutter shall be horizontally reinforced with 2 no's of 8mm PVC rods. Teak wood batons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed onto the door shutter.	1 Sqm	1,997.00
487	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 moulded 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, panelling 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	3,146.00
488	TBSC-L.III-16	Supplying & fixing SINGLE PANEL 30 mm thick PVC DOOR, door shutters with shutter frame and Infill panel made from PVC material, the shutter frame made out of PVC extruded sections having overall dimensions of 60mm x 30 mm with wall thickness of 1.3 mm ± 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm ± 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric bars as per drawing including providing special PVC bracket on hinge side, etc complete	1 Sqm	2,704.00
489	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	1 RM	624.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
490	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	11,564.00
491	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" Aldrops - 1 No., Butt Hinges - 3 Nos, Mortise Lock of approved quality - 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Single leaf Door	1 Sqm	10,676.00
492	TBSC-L.III-20	Providing & Fixing of Scientific Doors with metal	1 Sqm	11,387.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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" Aldrops - 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		
493	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	21,683.00
494	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	1 Sqm	13,733.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
495	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	13,011.00
496	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	1 Sqm	21,683.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
497	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	18,904.00
498	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	1 Sqm	15,567.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
499	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	24,574.00
500	TBSC-L.III-27	Providing of Factory made prelaminate FPVC (Foamed Polyvinyl Chloride) Door frame of the size 105x40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 50mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 no's to be provided for each vertical member, GI stiffeners of ("U" channel of size 29x9x1mm, 150mm long) -3 no's at hinge point, Frame reinforcement of("U" GI channel of size 46x22x.06mm),Bottom tie rod of ("U" GI channel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work. Maximum door frame size : 980 x 2070 including providing of 35mm thick Factory made Prelaminated ABS (Acrolonitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminate ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos. for each shutter and ISI make S.S round lock completes for finished item of work. Maximum shutter size of : 910 x 2030 mm	1 Sqm	8,708.00
501	TBSC-L.III-28	Supply and fixing of toilet door shutter with frame made of M.S. door frame of 5 mm x 48 mm x 48 mm (L angel) as all-round frame the frame is coated with one coat of red oxide and two coats of enamel of	1 Sqm	3,904.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		approved color. For shutter and the shutter is made with 16mm Bison lam shutter with all-round 'U' Lipping of PPS section of 12 mm x 18 mm x 12 mm x 0.60mm, along hardware of 200m long and 12mm dia aluminium Aldrops 2 Nos, 2Nos of 125m m handle, 3 Nos of RT patte hinges IS 304gr SS 2mmX12mmX180mm long with a pole receiver of 10mmDia x 40mm by welded on 3mm x 40mm SS 304, plate it works as receiver for RT Patte hinges it is welded to M.S. angle . M.S. angle will be fixed to wall of self expandable screws and caps		
502	TBSC-L.III-29	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors three track - three glass shutters sliding duly manufactured using UPVC reinforced profiles of 108.0 mm x 49 mm x 2.25 mm for outer frames, 85 mm x 41 mm x 2.25 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with reinforced with 35mm x 10mm x 1.5mm thick 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 with uPVC glazing bead of 22.5mm x 18mm with "C" or "R" type inner and outer 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	1 Sqm	9,510.00
IV	SUB-SECTION	<b>CUP-BOARD DOORS</b>		
503	TBSC-L.IV-01	Supply and fixing of cup board frames and shutters and using 16mm Cement Bonded Particle Board conforming to IS 14276 duly painted both sides with one coat of primer and two coats of synthetic / enamel paint of approved shade and brand including fixing of hardware like M.S. powder coated Piano hinges of size 18mm x 18mm, brass ball catches, Aluminium tower bolts and handles , Godrej locks, synthetic glue, screws and nails including cost and conveyance of all materials, labour 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	2,440.00
504	TBSC-L.IV-02	Supply and fixing of box type cup board using Cement Bonded Particle Board conforming to IS 14276 for making frame of size 100mm x 35mm using two sandwiched 16MM boards, one Cement Bonded Particle Board conforming to IS 14276 and one Cement Bonded Prelaminated Particle Board with plain 35mm wood lipping. The Shutters are made of 16MM thick Cement Bonded Prelaminated Particle Board (Pre-Laminated Cement Bonded	1 Sqm	4,010.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		Particle Board) of approved shade inclusive of hardware like M.S. powder coated Piano hinges of size ¾" x ¾", Aluminium powder coated handles of size 4" (101.6mm), Aluminium tower bolt 4" (101.6mm) Godrej locks, screws, wood lipping and synthetic glue etc., complete finish item of work.		
505	TBSC-L.IV-03	Supply and fixing of PVC cupboards for kitchen and bedrooms shall be made out of multi chambered PVC sections having overall dimensions of 20 X 762mm with a wall thickness of 1.2mm ± 0.3mm. The cabinets shall be made as per the requirements of the room with groove system. The PVC section surface shall be plain and laminated finish to have good look, completed, for finished item of work for SINTEX OR equivalent PVC CABINETS	1 Sqm	4,504.00
506	TBSC-L.IV-04	Supply and fixing of cupboard shutter using teakwood scantling of size 50 mm x 50 mm teakwood as outer frame and 50 mm x 30 mm of size teakwood for shutter frames, 8mm thick Bison Lam as panel to each shutter consist of 2 Nos 75mm long tower bolt - 2 nos 75 mm big handle the and other shutter will have 1 no of cupboard lack , 1 No of 75 mm long handle and 75 mm x 10mm x 1mm thick SS hinges- 2 Nos for each shutter. The above frame will be fixed to the wall with screws, the rate inclusive of screws, handle, etc., complete at site of work	1 Sqm	4,497.00
<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>		
507	TBSC-M.I-01	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter for sizes 2'0 x 4'0 (609.6 x 1219.2 mm ) 3'-0 x 4'-0 (914.4mm x 1219.2 mm) without mullion section	1 Sqm	6,557.00
508	TBSC-M.I-02	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter	1 Sqm	6,936.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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)		
509	TBSC-M.I-03	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter 4'-0 x 4'-0 (1219.2x1219.2mm) without Mullion section	1 Sqm	6,746.00
510	TBSC-M.I-04	Supply and fixing of pre-painted steel casement/ open able windows base steel as per IS 513 of - 0.58 mm thick 'D quality, galvanized as per IS 277, finish painted with a polyester paint, section for outer frame of 46 x 52 mm section for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading 18 x 25 mm panelled with 5 mm thick plain float glass fitted with EPDM gaskets, handle made of high grade aluminium powder coated frames fixed to the concrete /masonry wall by means of self expanding screws including 10 mm square guard bars @ 150 mm pitch for Windows: Double shutter with Mullion section for sizes 4'-6 x 4'-6 (1371.6x1371.6mm) 5'-0 x 4'-0 (1524x1219.2mm) and 6'-0 x 4'-0 (1828.8x1219.2mm) and 6'-0 x 4'-6 (1828.8x1371.6mm)	1 Sqm	6,180.00
511	TBSC-M.I-05	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete Single shutter Window without vertical mullion for size 2'0"x4'0" (609.6mm x 1219.2mm)	1 Sqm	5,991.00
512	TBSC-M.I-06	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter	1 Sqm	6,368.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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)		
513	TBSC-M.I-07	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills, handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 5 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc., complete Centre fixed both side open able shutter window for sizes 5'0"x4'0" (1524mm x1219.2mm) and 6'0"x4'0" (1828.8mm x1219.2mm)	1 Sqm	5,612.00
514	TBSC-M.I-08	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm)	1 Sqm	7,944.00
515	TBSC-M.I-09	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40	1 Sqm	8,323.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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)		
516	TBSC-M.I-10	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for Centre fixed both side open able shutter window for a size 5'0"x4'0" (1524mm x1219.2mm).	1 Sqm	7,567.00
517	TBSC-M.I-11	Providing & Fixing of Open able Windows with Fly-mesh made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 finish painted with a polyester paint and the section for outer frame of 72 x 55mm, centre mullion of 72 x 50mm, section for fixed glass beading section of 12 x 12 mm and section for shutters of 48 x 25 mm and outer frame & mullion sections with rebate for glazed shutters, fly mesh and a 20 mm provision for guard bars/grills and fly mesh shutter section of 20 x 40 mm, stay, handles, latch 2 Nos of heavy duty stainless steel pivot hinges per shutter and panelled with 5mm thick plain float glass and S.S. Mesh for fly mesh shutter (304 grade), fitted using rubber gaskets including fixing the windows in the concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for a size 6'0"x4'0" (1828.8mm x1219.2mm)	1 Sqm	6,621.00
518	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	1 Sqm	4,948.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
519	TBSC-M.I-13	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for Single open able shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm)	1 Sqm	5,283.00
520	TBSC-M.I-14	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for Double open able shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	5,616.00
521	TBSC-M.I-15	Providing and fixing of Open able / Casement Windows made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 finish painted with a polyester paint and section for outer frame of 80 x 45 mm, centre mullion of 80 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, outer frame and mullions to have rebate for glazed shutter with a provision for guard bars/grills, centre mullion fixed with mullion cap, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing	1 Sqm	4,948.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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)		
522	TBSC-M.I-16	Providing and fixing of Open able / 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	7,006.00
523	TBSC-M.I-17	Providing and fixing of Open able / Casement Windows with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for 3' 0" x 4' 0" (914.4mm x 1219.2mm) and 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 Sqm	7,339.00
524	TBSC-M.I-18	Providing and fixing of Open able / Casement Windows with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 100 x 45 mm, centre mullion of 100 x 60 mm, section for shutter of 52 x 25 mm x 0.6 mm thick, section for fly-shutter of 52 x 25 mm x 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections, 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges	1 Sqm	6,673.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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)		
525	TBSC-M.I-19	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work including of all taxes - 1220 x 1372 or below size	1 Sqm	5,902.00
526	TBSC-M.I-20	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work including of all taxes - 1530 x 1372 or above size	1 Sqm	5,288.00
527	TBSC-M.I-21	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of	1 Sqm	7,415.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
528	TBSC-M.I-22	Galvanized powder coated Casement Windows with open able shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3 of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work including of all taxes - 1530 x 1372 or above size	1 Sqm	6,817.00
529	TBSC-M.I-23	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows open able shutters duly manufactured using UPVC reinforced profiles of (48 mm x 60 mm)/ (58 mm x 60 mm) x 2.0 mm for outer frames, (64 mm x 60 mm)/(72 mm x 60mm) x 2.0 mm for mullion sections for two or more open able shutters and (78 mm x 60 mm)/(72 mm x 42 mm) x 2.0 mm for outward open able shutter frame or (70 mm x 60 mm)/ (72 mmx 42 mm) x 2.0 mm for inward open able shutter frame capable of mounting single glazing system	1 Sqm	6,718.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
530	TBSC-M.I-24	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO <sub>2</sub> and not more than 12 PHR of CaCo <sub>3</sub> for every 100 parts of PVC resin) of 60 mm x 55 mm x 2.40 mm for outer frames, 74 mm x 60 mm x 2.40 mm for mullion sections for two or more openable shutters 75 mm x 60 mm x 2.40 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and accessories for casement window – friction hinges of stainless steel grade 304/430- 2 Nos., per sash, handle with 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 complete for finished item of work.	1 Sqm	8,052.00
531	TBSC-M.I-25	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles of 60 mm x 60 mm x 2.60 mm for outer frames, 82 mm x 60 mm x 2.60 mm for Fix mullion ("T" or "Z" )made of 60mm x 82mm uPVC profile section with steel reinforcement of size 35mm x 28mm x 1.5mm shall be provided in windows having fixed panel as per the requirement. The shutter of outward open able window shall be made of size 60mm x 77mm or for inward open able window shall	1 Sqm	8,285.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		be made of size 60mm x 78mm; "T" shaped for outward open or "Z" shaped for Inward open extruded 3 box multi-chamber uPVC window profile section of white colour having outer wall thickness of 2.6mm ( $\pm$ 0.2mm) provided with reinforcement of minimum 1.5mm thick G/I/U/S/O type GI section prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and accessories for casement window - friction hinges of stainless steel grade 304-2 Nos., per sash, handle 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
		Supply and fixing of Pre Laminated Cement Bonded Particle Board (as per IS-14276) WINDOWS with Pre-Painted Steel Sections fabricated from pre-painted Cold rolled formed sections made of galvanized steel color coated sections {Base steel as per 15-512 quality, galvanized as per IS-277 with Zinc of 120 gram/sqm) with total coated thickness of 0.58mm 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 sections for outer frame and centre mullion (duly filled with PU form of 40 kg/Cum) should be of 60mm x 50mm, with provision for fixing glazed shutter. The section for glazed/paneled shutter should be of size 48mm x 25 mm and another section of size 60mm x 23mm should be provided for separating glazed and paneled portion 5 mm thick colour pin headed glass is to be provided for glazing and providing guard bars of 10mm square rods duly welded at 150mm pitch to MS flat section of size 18mm and 3mm thick. Windows are to be fixed to wall by means of self expansion nylon Cap (75) and electroplated wooden screws of size 100mm, including aluminum powder coated fittings, A) 75mm long grip handles 1 no per shutter, B) 75 mm long tower bolts 2 nos. per shutter, C) Heavy duty 55 Pivot hinges 2 nos per shutter, D) MS Powder coated telescopic stay 1no per shutter.		
532	TBSC-M.I-26	Pre Laminated Cement Bonded Particle Board (as per IS-14276) WINDOWS WITH PPS SECTIONS — Single shutter 2'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm	1 Sqm	7,186.00
533	TBSC-M.I-27	Pre Laminated Cement Bonded Particle Board (as per IS-14276) WINDOWS WITH PPS SECTIONS — Double shutter 3'0" x 4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x	1 Sqm	7,255.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		25mm mullion section size of 50mm x 60mm for outer frame		
534	TBSC-M.I-28	Pre Laminated Cement Bonded Particle Board (as per IS-14276) WINDOWS WITH PPS SECTIONS — Double shutter 3'0" x 3'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm Mullion section size of 50mm x 60mm for outer frame.	1 Sqm	7,991.00
535	TBSC-M.I-29	Pre Laminated Cement Bonded Particle Board (as per IS-14276) WINDOWS WITH PPS SECTIONS — Double shutter 4'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm Mullion section size of 50mm x 60mm for outer frame.	1 Sqm	7,186.00
<b>II</b>	<b>SUB-SECTION</b>	<b>SLIDING WINDOWS</b>		
536	TBSC-M.II-01	Providing and fixing 2 Track 2 glass shutter sliding Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/ Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58 mm. Primer coat with epoxy primer of 5-7 micron thick, finish painted with polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for external frame should be of 44 x 59mm, Section for glass shutter should be of 35 x 49 mm Section for euro groove should be 25 x 24mm( Aluminium/Plastic)and Lap Strip should be of 30 x 41mm(Aluminium/Plastic).shutter should be provided with a glass of 5mm Plain Float Glass. Corner bracket for External frame made of Steel/Polypropylene, Corner Bracket for Internal frame made of Steel/Polypropylene, Touch Lock, Rollers, wool pile for lap strip & euro groove, Bump Stop Base & Rubber for shutter stopper. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. The Frame Section should be cut to length and mitre joined with Corner brackets & Shutter Sections should be cut to length and mitre joined with Corner Bracket. Window Frame should be fixed to brick/ concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames.10mm square guard bars with 6" pitch (152.4mm) max to be fixed wall to wall and all taxes complete for finished item of work	1 Sqm	7,042.00
537	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	1 Sqm	5,505.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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 Aluminium 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		
538	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 Aluminium 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	6,105.00
539	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 Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for i) Centre Shutter Fixed: centre shutter frame made of section with size 20mm x 47mm should be fitted with 5mm thick plain float	1 Sqm	6,449.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
540	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 component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for ii) Centre Shutter Sliding: centre 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) Centre 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.	1 Sqm	7,061.00
541	TBSC-M.II-06	Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel as per IS 513, D quality, galvanized as per IS 277 powder coated with Pure polyester powder and thickness of 0.8 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished	1 Sqm	5,783.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		item of work for Window with 3 shutters (Centre fixed shutter / Centre sliding shutter / centre Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. i) Centre Shutter Fixed: centre 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.		
542	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 Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour charges, and erection at site with complete finished item of work for Window with 3 shutters (Centre fixed shutter / Centre sliding shutter / centre Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. ii) Centre Shutter Sliding: centre 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	6,328.00
543	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 Aluminium 1 No. per each shutter and including installation of window system at site using anchor fasteners, Silicon sealant applied at the Outer frame corners inclusive of conveyance of all materials accessories, labour	1 Sqm	6,328.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		charges, and erection at site with complete finished item of work for Window with 3 shutters (Centre fixed shutter / Centre sliding shutter / centre Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm. iii) Centre Fly mesh Shutter Sliding: Section for Fly mesh shutter frame should be of size 20mm x 40mm and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.		
544	TBSC-M.II-09	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding windows duly manufactured using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (62 mm x 60 mm)/(60 mm x 45 mm) x 2.20 mm for outer frames, (66 mm x 38 mm)/(58 mm x 39 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,299.00
545	TBSC-M.II-10	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding windows with mesh shutter provision - (only 2-glass shutters) duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (80 mm x 52 mm)/ (94 mm x 45 mm) x 2.20 mm for outer frames, (54 mm x 38 mm)/(39 mm x 58 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/	1 Sqm	6,847.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work		
546	TBSC-M.II-11	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) <b>3 track sliding windows with mesh shutter - (2-glass shutters and 1-mesh shutter)</b> duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (94 mm x 45 mm)/(80 mm x 52 mm) x 2.20 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make and mesh shutter frame shall be (42 mm x 25 mm)/(52 mm x 21.5 mm) x 2.0 mm fitted with Vinyl Coated Fibre mesh- on rollers/ pulley duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	<b>1 Sqm</b>	<b>7,622.00</b>
547	TBSC-M.II-12	<b>DELETED</b>	-	-
548	TBSC-M.II-13	Providing and Fixing Pre painted Steel Sliding Windows / Doors - 3 track sliding window /doors shutter with mesh shutter - (2 - glass shutters and 1 - mesh shutter) fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58mm. Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick. Section for external frame should be of 44 x 107mm .Section for glass shutter and mesh shutter in case of door should be of 35 x 67 mm Section for euro groove should be 25 x 31mm (Aluminium/ Plastic) (in case of window sections should be 35 x 49 mm and 25 x 24 mm and 30 x 41 mm) and Lap Strip should be of 39 x 41mm (30 x 41 mm & Touch lock for window ) (Aluminium/ Plastic. The doors/ windows should be panelled with 5mm thick plain float glass. Corner bracket for internal and external frame made of glass filled nylon. Gaskets are to be made of Ethyl Propylene Diamine Monomer (EPDM).The sections are to be cut to	<b>1 Sqm</b>	<b>7,787.00</b>



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		length, joined and assembled by means of corner bracket. The above frames should be fixed to the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) (in case of windows only) and all Taxes complete for finished item of work.		
549	TBSC-M.II-14	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding windows duly manufactured using UPVC reinforced profiles of 60 mm x 49 mm x 2.20 mm for outer frames, 62 mm x 41 mm x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with 30 mm 15 mm x 1.5 mm with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7,508.00
550	TBSC-M.II-15	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding windows with mesh duly manufactured using UPVC reinforced profiles of 91 mm x 49 mm x 2.20 mm for outer frames, 62 mm x 41 mm x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with 30 mm 15 mm x 1.5 mm with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm and the shutter of fly screen with fibre mesh shall be made of size 21mm x 58mm extruded uPVC window profile section of white colour having outer wall thickness of 2.2mm (± 0.3mm) provided with reinforcement of minimum 1.5mm thick G/J/U/S/O type GI section duly mitred cut and thermal welded at all corners and prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	8,690.00
<b>III</b>	<b>SUB-SECTION</b>	<b>VENTILLATORS</b>		
551	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	1 Sqm	7,189.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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		
552	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	4,918.00
553	TBSC-M.III-03	Providing and fixing of top hung Ventilators made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with a polyester paint with 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single open able ventilator shutter size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick and (ii) Double open able ventilator shutter Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 80 x 45mm,shutter frame	1 Sqm	6,338.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm and (iii) Double open able fix shutter size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size of 80 x 45mm , shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm		
554	TBSC-M.III-04	Providing and fixing of louvered Ventilators made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with a polyester paint with and fitted with 4 mm thick plain float glass including fixing the frames in concrete/masonry wall by means of self expanding screws, etc., complete for finished item of work for (i) Single fixed Louvers Ventilator size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 80 x 45mm and (ii) Double fixed Louvers ventilator Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 80 x 45mm, vertical mullion section size of 80 x 60 mm and (iii) Double fixed Louvers Ventilator size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size of 80 x 45mm , Vertical mullion section size of 80 x 60 mm	1 Sqm	4,337.00
555	TBSC-M.III-05	Providing and fixing of top hung Ventilator with fly mesh made of pre-painted steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc, finish painted with a polyester paint, section for fly-shutter of 0.6 mm thick and fitted with stainless steel 32 gauge fly mesh of 304 grade and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single open able ventilator shutter window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 100 x 45mm, Glazed and fly mesh shutter frame section size of 52 x 25mm thick and (ii) Double open able ventilator shutter window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 100 x 45mm, Glazed and fly mesh shutter frame section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm and (iii) Double open able fix shutter window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size 100 x 45mm , Glazed and fly mesh shutter frame section size 52 x 25 mm ,Vertical mullion section size of 100 x 60 mm	1 Sqm	7,840.00
556	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	1 Sqm	5,283.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and 1 No. of High grade nylon latch handle, window stopper, 2 nos. of with MS Powder coated /SS ball bearing butt Hinges provided per shutter and windows fitted with 4 mm thick plain float glass with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10 mm Square guard bars with 6" (152.4mm) pitch etc., complete for finished item of work for (i) Single fixed Louvers Ventilator window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame box section size of 100 x 45mm, fly mesh shutter frame section size 52 x 25 mm and (ii) Double fixed Louvers ventilator window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame box section size of 100 x 45mm, fly mesh shutter frame section size 52 x 25 mm, vertical mullion section size of 100 x 60 mm and (iii) Double fixed Louvers Ventilator window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame box section size 100 x 45mm , fly mesh shutter frame section size 52 x 25 mm Vertical mullion section size of 100 x 60 mm		
557	TBSC-M.III-07	Providing, supplying & fixing of Fixed Louvered Ventilator made out of multi chambered uPVC sections with Glazing bead shall be co-extruded with Grey colour soft PVC. having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having an overall size of 60 mm x 55 mm x 2.40 with reinforcement of 1 mm thickness and Mullion with overall size of 74 mm x 60 mm x 2.40 mm with reinforcement of 1 mm thickness. (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin).Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware. Wall thickness of frame & Mullion shall be 2.4 mm., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	6,858.00
558	TBSC-M.III-08	Providing, supplying & fixing of Top hung Ventilator With Exhaust Fan Provision made out of multi chambered uPVC sections with TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and reinforced with Galvanized Iron profiles throughout the window. The outer frame having a overall size of 60mm x 55 mm x 2.40 mm with reinforcement of 1 mm thickness, Mullion with overall size of 74 mm x 60 mm x 2.40 mm with reinforcement of 1 mm thickness and Sash with overall size of 75 mm x 60 mm x 2.40 mm with reinforcement of 1.0/1.2 mm thickness. (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin).Glazing bead for fixing of glass shall be of size 34 x 20 mm coextruded with soft PVC gasket. Ventilator shall be provided	1 Sqm	9,650.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		with 4.5 mm Pin Head glass, standard hardware, single point locking using cockspur handle and friction stays. Wall thickness of frame, mullion and sash shall be 2.4 mm., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
<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>		
559	TBSC-N.I-01	Supplying and fixing of curtain Glazing made of pre painted steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 Primer coated with epoxy, finish painted with a polyester paint using the section for outer frame of 46 x 52 mm, section for mullion of 46 x 70 mm and section for beading of 18 x 25 mm and the glazing with 5 mm thick plain float glass fitted with EPDM gaskets including handle made of high grade Aluminium powder coated and nylon receiver, corner brackets made of CRCA with zinc phosphating, mullion caps made of Glass filled nylon including fixing the frames in the concrete / masonry wall with self expanding screws, etc., complete for finished item.- Fixed Glazing 2'-0 x 2'-0 (609.6x609.6mm) and Fixed Glazing 2'-0 x 3'-0 (609.6x914.4mm)	<b>1 Sqm</b>	<b>6,243.00</b>
560	TBSC-N.I-02	Supplying and fixing of curtain Glazing made of pre painted steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 Primer coated with epoxy, finish painted with a polyester paint using the section for outer frame of 46 x 52 mm, section for mullion of 46 x 70 mm and section for beading of 18 x 25 mm and the glazing with 5 mm thick plain float glass fitted with EPDM gaskets including handle made of high grade Aluminium powder coated and nylon receiver, corner brackets made of CRCA with zinc phosphating, mullion caps made of Glass filled nylon including fixing the frames in the concrete / masonry wall with self expanding screws, etc., complete for finished item.- Fixed Glazing 3'-0 x 3'-0 (914.4x914.4mm) and Fixed Glazing 3'-0 x 4'-0 (914.4x1219.2mm)	<b>1 Sqm</b>	<b>5,297.00</b>
561	TBSC-N.I-03	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing - 48 series duly manufactured using UPVC reinforced profiles of 60 mm x 48 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 76 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished	<b>1 Sqm</b>	<b>3,364.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		item of work		
562	TBSC-N.I-04	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing duly manufactured using UPVC reinforced profiles of 60 mm x 56 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 70 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	4,020.00
563	TBSC-N.I-05	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing/ Window duly manufactured using UPVC reinforced profiles of 60 mm x 60 mm x 2.60 mm for frames and the mullion sections are of 60 mm x 82 mm x 2.60 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of size 35 mm x 28 mm of thickness 1.5 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant and glazing bead 34.5 mm x 18 mm 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	5,042.00
<b>II</b>	<b>SUB-SECTION</b>	<b>STRUCTURAL GLAZING</b>		
564	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	1 Sqm	7,567.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		item of work.		
565	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	6,116.00
<b>III</b>	SUB-SECTION	<b>CURTAIN WALLING</b>		
566	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	7,167.00
<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>	SUB-SECTION	<b>TOWER BOLTS</b>		
567	TBSC-P.I-01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	184.00
568	TBSC-P.I-02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	270.00
569	TBSC-P.I-03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	361.00
570	TBSC-P.I-04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	448.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
571	TBSC-P.I-05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	551.00
572	TBSC-P.I-06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	50.00
573	TBSC-P.I-07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	60.00
574	TBSC-P.I-08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	75.00
575	TBSC-P.I-09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	90.00
576	TBSC-P.I-10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	110.00
577	TBSC-P.I-11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	125.00
578	TBSC-P.I-12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	330.00
579	TBSC-P.I-13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	430.00
580	TBSC-P.I-14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	27.00
581	TBSC-P.I-15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	40.00
582	TBSC-P.I-16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	59.00
583	TBSC-P.I-17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	78.00
584	TBSC-P.I-18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	97.00
585	TBSC-P.I-19	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 75 mm Long	Each	96.00
586	TBSC-P.I-20	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 100 mm Long	Each	112.00
587	TBSC-P.I-21	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 150 mm Long	Each	168.00
588	TBSC-P.I-22	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 200 mm Long	Each	224.00
589	TBSC-P.I-23	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 250 mm Long	Each	280.00
590	TBSC-P.I-24	Stainless Steel Tower Bolt-10 mm Bolt (IS:15833) 300 mm Long	Each	336.00
<b>II</b>	<b>SUB-SECTION</b>	<b>HINGES</b>		
591	TBSC-P.II-01	Brass Butt hinges (IS:205)- 75 mm Long	Each	76.00
592	TBSC-P.II-02	Brass Butt hinges (IS:205)- 100 mm Long	Each	250.00
593	TBSC-P.II-03	Brass Butt hinges (IS:205)- 125 mm Long	Each	302.00
594	TBSC-P.II-04	Brass Butt hinges (IS:205)- 150 mm Long	Each	398.00
595	TBSC-P.II-05	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	56.00
596	TBSC-P.II-06	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	73.00
597	TBSC-P.II-07	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	88.00
598	TBSC-P.II-08	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	106.00
599	TBSC-P.II-09	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	13.00
600	TBSC-P.II-10	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	24.00
601	TBSC-P.II-11	MS-Powder Coated Butt hinges (IS:205)- 125 mm	Each	36.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		Long		
602	TBSC-P.II-12	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	46.00
603	TBSC-P.II-13	Deluxe window stay Aluminium	Each	150.00
604	TBSC-P.II-14	Brass Windows Stay	Each	233.00
605	TBSC-P.II-15	GI Powder Coated Friction stay hinges of 10" Long for windows	Each	244.00
606	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	37.00
607	TBSC-P.II-17	Box hinges for cup boards	1 Each	47.00
608	TBSC-P.II-18	GI Powder Coated Friction stay hinges of 14" Long for windows	1 Each	343.00
609	TBSC-P.II-19	Stainless Steel Butt hinges (IS:12817)- 75 mm Long	Each	72.00
610	TBSC-P.II-20	Stainless Steel Butt hinges (IS:12817)- 100 mm Long	Each	106.00
611	TBSC-P.II-21	Stainless Steel Butt hinges (IS:12817)- 125 mm Long	Each	136.00
612	TBSC-P.II-22	Stainless Steel Butt hinges (IS:12817)- 150 mm Long	Each	170.00
<b>III</b>	<b>SUB-SECTION</b>	<b>DOOR HANDLES</b>		
613	TBSC-P.III-01	Aluminium Door Handles (IS:208) 75 mm Long	Each	50.00
614	TBSC-P.III-02	Aluminium Door Handles (IS:208) 100 mm Long	Each	60.00
615	TBSC-P.III-03	Aluminium Door Handles (IS:208) 125 mm Long	Each	85.00
616	TBSC-P.III-04	Aluminium Door Handles (IS:208) 150 mm Long	Each	100.00
617	TBSC-P.III-05	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	36.00
618	TBSC-P.III-06	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	52.00
619	TBSC-P.III-07	Brass fancy handles 150 mm	Each	348.00
620	TBSC-P.III-08	Brass fancy handles 200 mm	Each	472.00
621	TBSC-P.III-09	Brass fancy handles 250 mm	Each	851.00
622	TBSC-P.III-10	Brass fancy handles 300 mm	Each	1,085.00
623	TBSC-P.III-11	Brass fancy handles 450 mm	Each	1,698.00
624	TBSC-P.III-12	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	362.00
625	TBSC-P.III-13	Keyless lock set for toilet doors with brass knob handles	Each	957.00
626	TBSC-P.III-14	Hard Nylon Window Handle	Each	73.00
627	TBSC-P.III-15	Stainless Steel Door Handles 100 mm Long	Each	110.00
628	TBSC-P.III-16	Stainless Steel Door Handles 125 mm Long	Each	130.00
629	TBSC-P.III-17	Stainless Steel Door Handles 150 mm Long	Each	160.00
630	TBSC-P.III-18	Stainless Steel Door Handles 200 mm Long	Each	180.00
<b>IV</b>	<b>SUB-SECTION</b>	<b>ALDROPS</b>		
631	TBSC-P.IV-01	Brass Aldrops (IS:2681) 300 mm long	Each	1,333.00
632	TBSC-P.IV-02	Brass Aldrops (IS:2681) 350 mm long	Each	2,568.00
633	TBSC-P.IV-03	Brass Aldrops (IS:2681) 450 mm long	Each	3,657.00
634	TBSC-P.IV-04	Aluminium Aldrops (IS:2681) 200 mm long	Each	190.00
635	TBSC-P.IV-05	Aluminium Aldrops (IS:2681) 250 mm long	Each	220.00
636	TBSC-P.IV-06	Aluminium Aldrops (IS:2681) 300 mm long	Each	240.00
637	TBSC-P.IV-07	MS-Powder Coated Aldrops (IS:2681) 200 mm long	Each	120.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
638	TBSC-P.IV-08	MS-Powder Coated Aldrops (IS:2681) 250 mm long	Each	157.00
639	TBSC-P.IV-09	MS-Powder Coated Aldrops (IS:2681) 300 mm long	Each	188.00
640	TBSC-P.IV-10	Stainless Steel Aldrops (IS:15834) 200 mm long	Each	270.00
641	TBSC-P.IV-11	Stainless Steel Aldrops (IS:15834) 250 mm long	Each	320.00
642	TBSC-P.IV-12	Stainless Steel Aldrops (IS:15834) 300 mm long	Each	350.00
<b>V</b>	SUB-SECTION	<b>LATCHES</b>		
643	TBSC-P.V-01	Brass latch heavy 300 mm	Each	669.00
644	TBSC-P.V-02	Brass latch heavy 350 mm	Each	769.00
645	TBSC-P.V-03	Brass latch heavy 450 mm	Each	1,014.00
646	TBSC-P.V-04	Aluminium Flat Latches: 200 mm long	Each	110.00
647	TBSC-P.V-05	Aluminium Flat Latches: 250 mm long	Each	120.00
648	TBSC-P.V-06	Aluminium Flat Latches: 300 mm long	Each	130.00
649	TBSC-P.V-07	MS-Powder Coated Flat Latches: 250 mm long	Each	61.00
650	TBSC-P.V-08	MS-Powder Coated Flat Latches: 300 mm long	Each	76.00
<b>VI</b>	SUB-SECTION	<b>DOOR CLOSURES</b>		
651	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	1,075.00
652	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	1,244.00
653	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	1,331.00
654	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	1,397.00
<b>VII</b>	SUB-SECTION	<b>FLOOR SPRINGS</b>		
655	TBSC-P.VII-01	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1,985.00
656	TBSC-P.VII-02	Double action Brass cover plate and cast brass body floor spring (IS 6315- Table-1)	Each	4,710.00
657	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	3,933.00
658	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	2,924.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
659	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	12,991.00
<b>VIII</b>	SUB-SECTION	<b>MORTICE LOCKS</b>		
660	TBSC-P.VIII-01	Heavy duty mortise lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	971.00
661	TBSC-P.VIII-02	Heavy duty mortise lock 6/7 levers (IS:2209) with brass heavy handles	Each	2,497.00
<b>IX</b>	SUB-SECTION	<b>OTHER ACCESSORIES</b>		
662	TBSC-P.IX-01	Brass Door Stoppers	Each	206.00
663	TBSC-P.IX-02	MS-Powder Coated - Door Stoppers	Each	52.00
664	TBSC-P.IX-03	Heavy duty Aluminium Door stopper	Each	66.00
665	TBSC-P.IX-04	Rubber/ Nylon door stop bushes	1 Each	11.00
666	TBSC-P.IX-05	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	133.00
667	TBSC-P.IX-06	Supply & fixing drapery bracket - brass powder coated	pair	469.00
668	TBSC-P.IX-07	Nylon rollers for sliding glasses/ aluminium windows	1 Each	16.00
669	TBSC-P.IX-08	MS Z Hold fasts - 300 mm long of 40 x 40 x 5 mm ISA	1 Each	37.00
670	TBSC-P.IX-09	Magnetic Catchers	1 Each	16.00
<b>Q</b>	SECTION	<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>	SUB-SECTION	<b>PLASTICIZERS</b>		
671	TBSC-Q.I-01	Concrete Plasticizers and Water reducing admixture Conforming to IS:9103-1999	1 Ltr	208.00
672	TBSC-Q.I-02	Early High Strength, High water retention, polycarboxylic plasticizers Conforming to IS:9103-1999	1 Kg	146.00
673	TBSC-Q.I-03	High performance super plasticizer and water reducing admixture Conforming to IS: 9103-1999	1 Kg	99.00
674	TBSC-Q.I-04	Super plasticizer for high range water reducing admixture Conforming to IS: 9103-1999	1 Kg	110.00
675	TBSC-Q.I-05	Super plasticizer, high range water reducing and retarding admixture complying with IS: 9103-1999	1 Kg	120.00
676	TBSC-Q.I-06	Plasticizer for accelerator for sprayed concrete Conforming to IS: 9103-1999.	1Kg	89.00
677	TBSC-Q.I-07	High Early Strength Concrete Admixture for Road Repairs	1 Ltr	30.00
<b>II</b>	SUB-SECTION	<b>WATER PROOFING COMPOUNDS</b>		
678	TBSC-Q.II-01	Integral Cement Waterproofing Liquid Conforming to IS: 2645-2003	1 Ltr	219.00
679	TBSC-Q.II-02	High durable cementitious acrylic based waterproofing systems	1 Kg	140.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
680	TBSC-Q.II-03	Acrylic Polymer Elastomeric Cementitious Waterproof Coatings	1 Ltr	364.00
681	TBSC-Q.II-04	Single component, elastomeric waterproof membrane coating	1 Ltr	442.00
682	TBSC-Q.II-05	Quick setting, rapid hardening and water proofing compound Conforming to IS: I.S. 2645-2003	1 Ltr	84.00
683	TBSC-Q.II-06	Highly Flexible Waterproof Acrylic Elastomeric bituminous Blended Coatings	1 Ltr	312.00
684	TBSC-Q.II-07	Two part system of fibre reinforced Acrylic Cementitious Waterproofing coating.	Kg	150.00
685	TBSC-Q.II-08	High strength cellulose fibre reinforced acrylic elastomeric liquid membrane waterproof coating -	Ltr	320.00
686	TBSC-Q.II-09	High Strength Acrylic Penetrative U,V. Resistant concrete road top coatings.	Ltr	350.00
687	TBSC-Q.II-10	High performance polyurethane blended with bituminous Membrane coating ( Complies with ASTM C - 836 )	Ltr	650.00
688	TBSC-Q.II-11	Nano Technology water based transparent silicon water repellent	Ltr	750.00
<b>III</b>	SUB-SECTION	<b>BONDING AGENTS/ ADHESIVES</b>		
689	TBSC-Q.III-01	Acrylic based Bonding adhesive	1 Ltr	156.00
690	TBSC-Q.III-02	Styrene butadiene rubber based bonding agent	1 Kg	468.00
691	TBSC-Q.III-03	Two Parts system of Epoxy Bonding adhesive Conforming to ASTM-C 881	1 Kg	904.00
692	TBSC-Q.III-04	Liquid Polymer additive for cement & concrete mixes	1 Ltr	250.00
693	TBSC-Q.III-05	Polymer cementitious additive for fixing tiles/ stones etc	1 Kg	225.00
694	TBSC-Q.III-06	Highly multi purpose Roads Grade concrete bonding agent	Ltr	190.00
<b>IV</b>	SUB-SECTION	<b>ANTI-CORROSIVE AGENTS</b>		
695	TBSC-Q.IV-01	Acrylic based Anti corrosive coating	1 Ltr	364.00
696	TBSC-Q.IV-02	Rust converter -rust encapsulating coating for steel	1 Ltr	499.00
697	TBSC-Q.IV-03	High range of reinforcement / steel protector against corrosion zinc rich epoxy resin primer	1 Kg	779.00
698	TBSC-Q.IV-04	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture	1 Lit	359.00
<b>V</b>	SUB-SECTION	<b>GROUTS</b>		
699	TBSC-Q.V-01	High Power Polyester Resin Anchor Grout Conforming to ASTM-827	1 Kg	312.00
700	TBSC-Q.V-02	Non-shrink Free flow high strength precision grout Conforming to BS 1881 Part 1161983.	1 Kg	36.00
701	TBSC-Q.V-03	Low viscosity Epoxy resin injection grout	1 Kg	831.00
702	TBSC-Q.V-04	Three component epoxy grout Conforming to IS: ASTM 827 (Three components)	1 Kg	167.00
703	TBSC-Q.V-05	Expansive acqua -reactive water barrier and grouting system.	1 Kg	1,078.00
<b>VI</b>	SUB-SECTION	<b>MISCELLANEOUS CHEMICALS</b>		
704	TBSC-Q.VI-01	Mould / Shutter releasing oil	1 Ltr	151.00
705	TBSC-Q.VI-02	Non oxidizing, heavy duty metallic Floor Hardeners	1 Kg	39.00
706	TBSC-Q.VI-03	Non-metallic Floor Hardeners	1 Kg	32.00
707	TBSC-Q.VI-04	High Strength, Non shrink Micro Concrete for	1 Kg	38.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		structural repair product.		
708	TBSC-Q.VI-05	Structural graded polymer modified reinstatement concrete / mortar (Two Part System)	1 Kg	89.00
709	TBSC-Q.VI-06	Three Component high performance elastomeric mortar.	1 Kg	987.00
710	TBSC-Q.VI-07	Surface treatment crystalline product.	1 Kg	374.00
711	TBSC-Q.VI-08	Polyurethane Sealant. 600 ml tube	1 No	758.00
712	TBSC-Q.VI-09	Polysulphide Sealant.	1 Kg	468.00
713	TBSC-Q.VI-10	Acrylic Latex caulking compound.	1 Kg	348.00
714	TBSC-Q.VI-11	Fast setting cement based plugging compound	1 Kg	89.00
715	TBSC-Q.VI-12	Highly Flexible High Range Polyurethane surface coatings	1 Ltr	675.00
716	TBSC-Q.VI-13	Coal Tar Epoxy	1 Kg	364.00
717	TBSC-Q.VI-14	Water Based Acrylic Blended High power curing compound	1 Kg	104.00
718	TBSC-Q.VI-15	Bituminous hot sealing compound	1 Kg	125.00
719	TBSC-Q.VI-16	Bitumen solution primer coating.	1 Kg	89.00
720	TBSC-Q.VI-17	Air Entraining Agent Conforming to IS: 9103-99	1 Ltr	125.00
721	TBSC-Q.VI-18	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1 Lit	237.00
722	TBSC-Q.VI-19	Multifilament Polypropylene fibers of 6/12/18 mm length for Plastering, Screeds, all Precasting items	1 Kg	300.00
723	TBSC-Q.VI-20	Macro Synthetic fibers of 45mm length for CC Roads, Ground Supported Slabs, Pavements, Sprayed Concrete,Tunnel linings, Mining	1 Kg	450.00
724	TBSC-Q.VI-21	Steel Fibers of 35 mm length for CC Roads, Ground Supported Slabs, Pavements, Sprayed Concrete,Tunnel linings, Mining	1 Kg	100.00
725	TBSC-Q.VI-22	High strength, Acrylic blended dry colour mortar /concrete	1 Kg	48.00
<b>VII</b>	<b>SUB-SECTION</b>	<b>REPAIRING &amp; TREATMENT WORKS</b>		
726	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	270.00
727	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 aluminium paint for heat resistance for finished item.	1 Sqm	374.00
728	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.	1 Sqm	509.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		[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.		
729	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 )	<b>1 Sqm</b>	<b>405.00</b>
730	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	<b>1 Sqm</b>	<b>374.00</b>
731	TBSC-Q.VII-06	Providing specialized high solid, cold applied, acrylic elastomeric liquid membrane coating treatment to the terrace / roofing with fibre 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 fibre mesh 40 GSM / Geo fabric 40 GSM on the surface. f. Over the Fibre mesh, Application of two coats of High solid, cold applied, Acrylic Elastomeric Liquid Membrane Coating	<b>1 Sqm</b>	<b>592.00</b>
732	TBSC-Q.VII-07	Providing specialized polysulphide sealant treatment to the expansion joints (Size : 25 mm x 25 mm) 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 PVC Solid Backer rod to leave the depth of 25 mm 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 25 mm and depth of 25 mm with putty knife and neat finish i]. Removing of masking tape and providing and application of two coats of Acrylic elastomeric cementitious coating	<b>1 RM</b>	<b>675.00</b>
733	TBSC-Q.VII-08	Pressure grouting the drilled holes with neat cement slurry or with approved grout admixture using pump	<b>1 Each</b>	<b>52.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		- excluding cost of drilling holes		
734	TBSC-Q.VII-09	Providing multi-coloured silicon fluorocarbon spray coating of thickness 1mm for exterior & interior wall finishes to give Natural Granite appearance comprising of 4 coats including application of primer, waterproof coat, Multi colour texture & finally UV resistant with repellent clear coat of low VOC, non-toxic, Green Building compliant material	1 Sqm	1,440.00
735	TBSC-Q.VII-10	Providing and applying epoxy based anti skid coat over existing RCC/Concrete flooring surfaces of 2mm thickness for wear & tear protection in three part applications containing low solvent-coloured, epoxy resin based coating with thymotrophic properties specially formulated for application in Car Parks having Mechanical / Physical Properties such as 1. Abrasion Resistance ~ 0.8mm thickness loss (According to IS 1237 - 1980 and IS 9162 - 1979) 2. Chemical Resistance to many chemicals 3. Thermal Resistance Exposure with Dry heat Permanent +50°C	1 Sqm	680.00
736	TBSC-Q.VII-11	Providing and applying epoxy resin based self levelling Conductive Floor System of 2mm thick Antistatic (ESD) Flooring System comprising of 1 coat of Primer followed by Application of copper tape and 1 layer of SL Conductive Undercoat and 1 layer of SL Conductive Top coat with Compressive strength after 7 days at +30° C: 50 N/mm <sup>2</sup> and Flexural strength after 7 days at +30° C: approx. 25N/mm <sup>2</sup> and Tensile strength after 7 days at +30° C: 16 N/mm <sup>2</sup> with a Surface resistance When measured for surface resistance in accordance with BS 2050: 1978 (A-1984) and DIN EN 1081, the static Conductive topping including under coat shall be less than 25k $\Omega$ .	1 Sqm	1,400.00
737	TBSC-Q.VII-12	Providing and applying food grade epoxy based water proof coat over existing RCC/Concrete flooring surfaces in three part applications containing low solvent-coloured, epoxy resin based coating with low VOC properties specially formulated for food grade application for potable water storage tanks in ambient temperatures	1 Kg	280.00
<b>VIII</b>	SUB-SECTION	<b>EXPANSION JOINTS</b>		
738	TBSC-Q.VIII-01	Supply of high performance expansion joint filler board conforming to IS: 1838 - 18 mm THICK	1 Sqm	835.00
739	TBSC-Q.VIII-02	Supply of high performance expansion joint filler board conforming to IS: 1838 - 20 mm THICK	1 Sqm	937.00
740	TBSC-Q.VIII-03	Supply of high performance expansion joint filler board conforming to IS: 1838 - 25 mm THICK	1 Sqm	1,170.00
741	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	335.00
742	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	419.00
743	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	835.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
744	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	14.00
745	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	16.00
746	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	19.00
747	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	27.00
748	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	34.00
<b>R</b>	<b>SECTION</b>	<b>MISCELLANEOUS ITEMS</b>		
749	TBSC-R.I-01	Supply of White Cement conforming to IS:8042-1989	1 Kg	33.00
750	TBSC-R.I-02	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	696.00
751	TBSC-R.I-03	Supply of Aluminium anodized Sections for Doors, partitions, windows, Ventilators (including anodization cost) conforming to IS: 11857 - 1986	1 Kg	334.00
752	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	34.00
753	TBSC-R.I-05	Providing hot dip galvanizing to any steel section as per IS:2629-1985	1 Kg	21.00
754	TBSC-R.I-06	Supply of Clear Silicone Sealant (Glass Glue Sealant) of Gun Applicator grade	1 Kg	242.00
755	TBSC-R.I-07	Supply of Sun Control film to the glazed windows partition including labour charges.	1 Sqm	342.00
756	TBSC-R.I-08	Supply of Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 Sqm	870.00
757	TBSC-R.I-09	Supply of Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 Sqm	829.00
758	TBSC-R.I-10	Supply of Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 Sqm	1,407.00
759	TBSC-R.I-11	Supply of Rubber Beading for glass fixing	1 RM	3.00
760	TBSC-R.I-12	Supply of Soft Brush for painting, varnishing etc	Each	154.00
761	TBSC-R.I-13	Supply of Wire Brush for scraping	Each	35.00
762	TBSC-R.I-14	Providing and fixing PVC door cladding to the flush doors shutters, for the new doors it shall be pasted with synthetic glue or nailed to the old doors. complete as per direction of Engineer-in-charge, manufacturers specification and drawing - 1 mm thick	1 Sqm	403.00
763	TBSC-R.I-15	Providing and fixing PVC door cladding to the flush doors shutters, for the new doors it shall be pasted with Synthetic glue SSR 998 or nailed to the old doors. complete as per direction of Engineer-in-charge, manufacturers specification and drawing - 1.5 mm thick	1 Sqm	460.00
764	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	1 Sqm	520.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		doors. complete as per direction of Engineer-in-charge, manufacturers specification and drawing - 2.0 mm thick		
765	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, <b>ACP Cladding - 3 mm thick</b>	<b>1 Sqm</b>	<b>2,685.00</b>
766	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>2,928.00</b>
767	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>3,284.00</b>
768	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.,	<b>1 Sqm</b>	<b>393.00</b>
769	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.,	<b>1 Sqm</b>	<b>548.00</b>
770	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.,	<b>1 Sqm</b>	<b>644.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
771	TBSC-R.I-23	Supply of Aluminium sheet 24 Gauge	1 Sqm	314.00
772	TBSC-R.I-24	Supply of 7.5mm thick Aluminium Grill (as approved by the department) 3.58 Kg/1 Sqm	1 Sqm	1,155.00
		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		
773	TBSC-R.I-25	Steel Structure: - Structure is made up of 50x50x2.8 m/33x66x2.8mm thick hollow M.S. sections for - Columns and purlins	1 RM	431.00
774	TBSC-R.I-26	Steel Structure: - Structure is made up of 50x50x2.8 m/33x66x2.8mm thick hollow M.S. sections for Trusses	1 RM	2,166.00
775	TBSC-R.I-27	10 mm thick 200 X 200 mm M.S Plates for base plates, 250mm long 12mm anchor bolts with plate washer and nuts complete with one coat of Asian or equivalent red oxide paint	Each	732.00
776	TBSC-R.I-28	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	1,559.00
777	TBSC-R.I-29	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	169.00
778	TBSC-R.I-30	G I 'H' Section is made up of forming width of 275 mm single sheet roll formed in the shape of "H" section without any welding joint. 40mm width for flanges and 51 mm for web to hold 50 mm Sandwich panel	1RM	277.00
779	TBSC-R.I-31	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.	1 RM	329.00
780	TBSC-R.I-32	150 mm X 150 mm X 2.0 mm size M. S. Corner Cover Plate	1 RM	395.00
781	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	4,767.00
782	TBSC-R.I-32	Door Frames :-51 X 51 Stepped ' U' section made	1 Sqm	4,562.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		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.		
783	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	5,105.00
784	TBSC-R.I-34	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	129.00
785	TBSC-R.I-35	2) Exterior walls are painted with one coast of primer and 2 coats of exterior emulsion paint .	1 Sqm	116.00
786	TBSC-R.I-36	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	101.00
787	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	1,091.00
788	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	3,677.00
789	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	830.00
790	TBSC-R.I-40	Preparing gabions with jungle wood	Each	4.00
791	TBSC-R.I-41	Planting plants	Each	3.00
792	TBSC-R.I-42	Pruning plants	Each	3.00
793	TBSC-R.I-43	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	7.00
794	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	8.00
795	TBSC-R.I-45	Hoisting or lowering of slab	1 cum	110.00
796	TBSC-R.I-46	Drilling holes in hard rock surfaces up to 18mm Diameter	1 RM	274.00
797	TBSC-R.I-47	Drilling holes in hard rock above 18mm Diameter	1 RM	381.00
798	TBSC-R.I-48	Making holes up to 18mm Diameter in RCC/ any stones up to 50 mm thick	1 Each	45.67
799	TBSC-R.I-49	Making holes above 18mm Diameter in RCC/ any stones above 50 mm thick	1 Each	64.00
800	TBSC-R.I-50	Supplying EPDM Gasket for windows panes to the PPS shutter	1 RM	37.00
801	TBSC-R.I-51	Supplying SS 304 Grade Heavy Duty Pivot Hinges for windows	1 Each	89.00
<b>S</b>	<b>SECTION</b>	<b>MACHINERY &amp; OTHER HIRE CHARGES</b>		
802	TBSC-S.I-01	Machine charges of rubbing/ polishing floor	1 Hr	279.00
803	TBSC-S.I-02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	130.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
804	TBSC-S.I-03	Power Drill - Hand Operated - Hire Charges	1 Hr	121.00
805	TBSC-S.I-04	Grinding Mortar (Special Grinding)	1 Hr	140.00
806	TBSC-S.I-05	Casuarinas Balli Props - 3" to 4" Diameter - 12'-0" Height	Each	76.00
807	TBSC-S.I-06	Casuarinas Balli Props - 4" to 8" Diameter - 20'-0" Height	Each	126.00
808	TBSC-S.I-07	Wall Plate Brackets / beam bottom supports	Each	221.00
809	TBSC-S.I-08	Wedge Plate fixture	Each	11.00
810	TBSC-S.I-09	Runner beams of approximately 4" x 4" size	RM	442.00
811	TBSC-S.I-10	Steel Plates for form works	1 Sqm	1,671.00
812	TBSC-S.I-11	Scaffolding Pipes & Centering accessories	1 Kg	126.00
813	TBSC-S.I-12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	135.00
814	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	356.00
815	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	5.00
<b>T</b>	<b>SECTION</b>	<b>LABOUR CHARGES</b>		
816	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	256.00
817	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	303.00
818	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	353.00
819	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	407.00
820	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	632.00
821	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	764.00
822	TBSC-T.I-07	Labour charges for making, fabricating office racks, cup-board shutters etc with ply-wood/ MDF sheets, decolam/ veneer laminations including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, pasting sheets/ laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings	1 Sqm	641.00
823	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/	1 Sqm	979.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		laminations fixing in position with necessary screws excluding cost of materials, accessories, fittings		
824	TBSC-T.I-09	Labour charges for making, fabricating any aluminium door/ window/ glazing including fixing cutting, making, assembling, fixing hinges, fixing fixtures, fixing locks, fixing in position with necessary screws excluding cost of materials, accessories, fittings excluding cost of annodization	1 Sqm	499.00
825	TBSC-T.I-10	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	1 Rm	111.00
826	TBSC-T.I-11	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	336.00
827	TBSC-T.I-12	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	436.00
828	TBSC-T.I-13	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	1 RM	17.00
829	TBSC-T.I-14	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	1 Rm	52.00
830	TBSC-T.I-15	Grooves 2-3 mm	1 Rm	59.00
831	TBSC-T.I-16	Labour charges for fabricating steel works like Window Grills, Compound Wall Grills, Iron Doors, Windows including cost of welding rods, power charges, excluding cost of fixing in position	1 Kg	28.00
832	TBSC-T.I-17	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	1 Kg	4.00
833	TBSC-T.I-18	Labour charges for fabricating all structural steel works like heavy steel works like Trusses, Stanchions, Heavy Beams and Girders including cost of welding rods, power charges, etc excluding cost of fixing in position	1 Kg	25.00
834	TBSC-T.I-19	Labour charges for erecting & fixing all structural steel works like heavy iron grills, Trusses, Stanchions, Heavy Beams and Girders erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position	1 Kg	22.00
835	TBSC-T.I-20	Labour charges for Fabrication of stainless steel railing works using stainless steel welding rods including buffing, polishing, lacquer finishing, to present seamless finish	1 Kg	139.00
836	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	1,860.00
837	TBSC-T.I-22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	1,012.00
838	TBSC-T.I-23	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Reverse Etching work	1 Sqm	1,252.00
839	TBSC-T.I-24	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1,565.00
840	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	1 Sqm	406.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		shutter		
841	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	303.00
842	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	1,908.00
843	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	1,770.00
844	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	1,582.00
845	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	1,237.00
846	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	893.00
847	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	1,194.00
848	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	1,840.00
849	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	1,257.00
850	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	1,502.00
851	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	928.00
852	TBSC-T.I-37	Labour charges for wrought and put up including fixing in position for Teak wood Swing ventilators glazed including outer frame and shutter frame	1 Sqm	1,195.00
853	TBSC-T.I-38	Labour charges for wrought and put up including fixing in position for Teak wood Weld mesh doors and windows including outer frame and shutter frame	1 Sqm	638.00
854	TBSC-T.I-39	Labour charges for wrought and put up including fixing in position for Teak wood G.I or .AC sheet door & windows including outer frame and shutter frame	1 Sqm	714.00
855	TBSC-T.I-40	Labour charges for wrought and put up including fixing in position for Other than teakwood Fully panelled doors external or internal including frame	1 Sqm	1,596.00
856	TBSC-T.I-41	Labour charges for wrought and put up including fixing in position for Other than teakwood Glazed and panelled doors including fixing glass including frame	1 Sqm	1,516.00
857	TBSC-T.I-42	Labour charges for wrought and put up including fixing in position for Other than teakwood Framed	1 Sqm	1,323.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		and planked doors including frame		
858	TBSC-T.I-43	Labour charges for wrought and put up including fixing in position for Other than teakwood Lugged, braced and planked doors including frame	1 Sqm	1,035.00
859	TBSC-T.I-44	Labour charges for wrought and put up including fixing in position for Other than teakwood Flush type door shutter including frame	1 Sqm	813.00
860	TBSC-T.I-45	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows glazed including outer frame and shutter frame	1 Sqm	1,027.00
861	TBSC-T.I-46	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows panelled including outer frame and shutter frame	1 Sqm	1,539.00
862	TBSC-T.I-47	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows lugged, braced and planked including outer frame	1 Sqm	1,052.00
863	TBSC-T.I-48	Labour charges for wrought and put up including fixing in position for Other than teakwood Windows framed and planked including outer frame and shutter frame	1 Sqm	1,256.00
864	TBSC-T.I-49	Labour charges for wrought and put up including fixing in position for Other than teakwood Ventilators glazed, fixed with double frame with wire netting including frame	1 Sqm	868.00
865	TBSC-T.I-50	Labour charges for wrought and put up including fixing in position for Other than teakwood Swing ventilators glazed including outer frame and shutter frame	1 Sqm	1,092.00
866	TBSC-T.I-51	Labour charges for wrought and put up including fixing in position for Other than teakwood Weld mesh doors and windows including outer frame and shutter frame	1 Sqm	559.00
867	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	634.00
868	TBSC-T.I-53	Dressing faces of granite stone (double line dressing)	1 Sqm	186.00
869	TBSC-T.I-54	Dressing faces of other than granite stone(double line dressing)	1 Sqm	115.00
870	TBSC-T.I-55	Labour charges for removing and refixing with complete servicing of the MS Windows	1 Sqm	395.00
<b>U</b>	<b>SECTION</b>	<b>DISMANTLING</b>		
871	TBSC-U.I-01	Stone masonry in cement mortar	1 Cum	421.00
872	TBSC-U.I-02	Terracing work in roofs or floors	1 Sqm	17.00
873	TBSC-U.I-03	Flat stones in roof or floors including lifting	1Sqm	15.00
874	TBSC-U.I-04	Pan tiled or Mangalore tiled roof without roof timbers.	1Sqm	13.00
875	TBSC-U.I-05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	1Sqm	15.00
876	TBSC-U.I-06	Wrought and framed timber in roofs or floors	1 Cum	219.00
877	TBSC-U.I-07	Old lime mortar plaster	1Sqm	4.00
878	TBSC-U.I-08	Old cement mortar plaster	1Sqm	5.00
879	TBSC-U.I-09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	69.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
880	TBSC-U.I-10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	51.00
881	TBSC-U.I-11	Kadapa slabs or Shahabad stone slabs flooring on sand bed	1Sqm	7.00
882	TBSC-U.I-12	Through scraping of old plastered surface	1Sqm	4.00
883	TBSC-U.I-13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	1Sqm	1.00
884	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
885	TBSC-U.I-15	Clean removal of cement plaster from walls and raking out joints 20 mm deep or from terraced roof and raking out joints from 50 mm to 100 mm deep	1Sqm	5.00
1	All the items to be used on the works are of first quality & ISI and as approved by the Engineer-In-charge of the work.			
2	Supply Rates for all the materials are based on market rates plus Sales Tax/ Material VAT.			
3	Works Contract VAT for General/ Composition Scheme on finished items may be allowed in the estimates as applicable.			
4	SSR Rates for Building items are purely for the guidance of the officers in preparation of estimates vide para.113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in para.45 of APPWD code.			
	<b>LEGEND</b>	"TBSC" -A.I-01		
		"TBSC" -R.I-22		
		"TBSC" -S.III-14		
		TBS - Denotes Telangana Buildings SoR		
		A.I/ R.IV - Denotes the Section & Sub-section		
		01/22 - Denotes the serial number of the item		



Sl	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labour charges	Centring Charges for 2017-18	Unit of Measurement
1	2	3	4	5	6

## HIRE CHARGES FOR CENTERING &amp; SCAFFOLDING

A	FOOTINGS	Rs.	288.00	Rs.	601.00	Rs.	889.00	per 1 cum
B	BED BLOCKS, BANDS	Rs.	64.00	Rs.	310.00	Rs.	374.00	per 1 cum
C	PEDESTALS	Rs.	328.00	Rs.	956.00	Rs.	1284.00	per 1 cum
D	PLINTH BEAMS	Rs.	1390.00	Rs.	1449.00	Rs.	2839.00	per 1 cum
HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height up to 3.66 M Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates, etc.,								
E	LINTELS	Rs.	1180.00	Rs.	1538.00	Rs.	2718.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	233.00	Rs.	236.00	Rs.	469.00	per 1 sqm
G	COLUMNS	Rs.	355.00	Rs.	2160.00	Rs.	2515.00	per 1 cum
H	BEAMS	Rs.	2085.00	Rs.	1812.00	Rs.	3897.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	236.00	Rs.	205.00	Rs.	441.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	243.00	Rs.	211.00	Rs.	454.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	254.00	Rs.	221.00	Rs.	475.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	858.00	Rs.	746.00	Rs.	1604.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	602.00	Rs.	523.00	Rs.	1125.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	2370.00	Rs.	2060.00	Rs.	4430.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	2404.00	Rs.	2089.00	Rs.	4493.00	per 1 cum
P	DOME SLABS	Rs.	3833.00	Rs.	3331.00	Rs.	7164.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	292.00	Rs.	254.00	Rs.	546.00	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	Rs.	1206.00	Rs.	1574.00	Rs.	2780.00	per 1 sqm

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

E	LINTELS	Rs.	790.00	Rs.	1191.00	Rs.	1981.00	per 1 cum
F	CHAJJAS - SUNSHADES	Rs.	156.00	Rs.	183.00	Rs.	339.00	per 1 sqm
G	COLUMNS	Rs.	238.00	Rs.	1673.00	Rs.	1911.00	per 1 cum
H	BEAMS	Rs.	1395.00	Rs.	1403.00	Rs.	2798.00	per 1 cum
I	SLABS - Up to 150 mm thick	Rs.	158.00	Rs.	159.00	Rs.	317.00	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs.	163.00	Rs.	164.00	Rs.	327.00	per 1 sqm
K	SLABS - above 300 mm thick	Rs.	170.00	Rs.	171.00	Rs.	341.00	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs.	575.00	Rs.	578.00	Rs.	1153.00	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs.	403.00	Rs.	405.00	Rs.	808.00	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs.	1586.00	Rs.	1595.00	Rs.	3181.00	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs.	1609.00	Rs.	1617.00	Rs.	3226.00	per 1 cum
P	DOME SLABS	Rs.	2566.00	Rs.	2579.00	Rs.	5145.00	per 1 cum
Q	HELICAL STAIRCASES	Rs.	196.00	Rs.	197.00	Rs.	393.00	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	DELETED						

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

Sl	NAME OF THE STRUCTURAL MEMBER	Material Hire charges		Labour charges		Centring Charges for 2017-18		Unit of Measurement
1	2	3		4		5		6
HIRE CHARGES FOR ACCESS SCAFFOLDING - up to 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.	10.32	Rs.	75.68	Rs.	86.01	per 1 sqm
B	2nd - Floor	Rs.	10.32	Rs.	108.36	Rs.	118.69	per 1 sqm
C	3rd - Floor	Rs.	10.32	Rs.	141.04	Rs.	151.36	per 1 sqm
D	4th - Floor	Rs.	10.32	Rs.	173.72	Rs.	184.04	per 1 sqm
E	5th - Floor	Rs.	10.32	Rs.	206.40	Rs.	216.72	per 1 sqm
F	6th - Floor	Rs.	10.32	Rs.	239.08	Rs.	249.40	per 1 sqm
G	7th - Floor	Rs.	10.32	Rs.	271.75	Rs.	282.08	per 1 sqm
H	8th - Floor	Rs.	10.32	Rs.	304.43	Rs.	314.76	per 1 sqm
I	9th - Floor	Rs.	10.32	Rs.	337.11	Rs.	347.44	per 1 sqm
J	10th - Floor	Rs.	10.32	Rs.	369.79	Rs.	380.11	per 1 sqm
K	11th - Floor	Rs.	10.32	Rs.	402.47	Rs.	412.79	per 1 sqm
L	12th - Floor	Rs.	10.32	Rs.	435.15	Rs.	445.47	per 1 sqm
M	13th - Floor	Rs.	10.32	Rs.	467.83	Rs.	478.15	per 1 sqm
N	14th - Floor	Rs.	10.32	Rs.	500.50	Rs.	510.83	per 1 sqm
O	15th - Floor	Rs.	10.32	Rs.	533.18	Rs.	543.51	per 1 sqm

HIRE CHARGES FOR ACCESS SCAFFOLDING - up to 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.	1.03	Rs.	7.57	Rs.	8.60	per 1 sqm
B	2nd - Floor	Rs.	1.03	Rs.	10.84	Rs.	11.87	per 1 sqm
C	3rd - Floor	Rs.	1.03	Rs.	14.10	Rs.	15.14	per 1 sqm
D	4th - Floor	Rs.	1.03	Rs.	17.37	Rs.	18.40	per 1 sqm
E	5th - Floor	Rs.	1.03	Rs.	20.64	Rs.	21.67	per 1 sqm
F	6th - Floor	Rs.	1.03	Rs.	23.91	Rs.	24.94	per 1 sqm
G	7th - Floor	Rs.	1.03	Rs.	27.18	Rs.	28.21	per 1 sqm
H	8th - Floor	Rs.	1.03	Rs.	30.44	Rs.	31.48	per 1 sqm
I	9th - Floor	Rs.	1.03	Rs.	33.71	Rs.	34.74	per 1 sqm
J	10th - Floor	Rs.	1.03	Rs.	36.98	Rs.	38.01	per 1 sqm
K	11th - Floor	Rs.	1.03	Rs.	40.25	Rs.	41.28	per 1 sqm
L	12th - Floor	Rs.	1.03	Rs.	43.51	Rs.	44.55	per 1 sqm
M	13th - Floor	Rs.	1.03	Rs.	46.78	Rs.	47.82	per 1 sqm
N	14th - Floor	Rs.	1.03	Rs.	50.05	Rs.	51.08	per 1 sqm
O	15th - Floor	Rs.	1.03	Rs.	53.32	Rs.	54.35	per 1 sqm

HIRE CHARGES FOR STAGE SCAFFOLDING - up to 3.66 M using Casuarinas Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for CEILING PLASTERING - 1 sqm								
A	1st - Floor	Rs.	2.46	Rs.	15.15	Rs.	17.61	per 1 sqm
B	2nd - Floor	Rs.	2.46	Rs.	21.50	Rs.	23.96	per 1 sqm
C	3rd - Floor	Rs.	2.46	Rs.	27.84	Rs.	30.31	per 1 sqm
D	4th - Floor	Rs.	2.46	Rs.	34.19	Rs.	36.65	per 1 sqm
E	5th - Floor	Rs.	2.46	Rs.	40.54	Rs.	43.00	per 1 sqm
F	6th - Floor	Rs.	2.46	Rs.	46.88	Rs.	49.34	per 1 sqm
G	7th - Floor	Rs.	2.46	Rs.	53.23	Rs.	55.69	per 1 sqm
H	8th - Floor	Rs.	2.46	Rs.	59.57	Rs.	62.04	per 1 sqm
I	9th - Floor	Rs.	2.46	Rs.	65.92	Rs.	68.38	per 1 sqm
J	10th - Floor	Rs.	2.46	Rs.	72.27	Rs.	74.73	per 1 sqm
K	11th - Floor	Rs.	2.46	Rs.	78.61	Rs.	81.07	per 1 sqm
L	12th - Floor	Rs.	2.46	Rs.	84.96	Rs.	87.42	per 1 sqm
M	13th - Floor	Rs.	2.46	Rs.	91.30	Rs.	93.76	per 1 sqm
N	14th - Floor	Rs.	2.46	Rs.	97.65	Rs.	100.11	per 1 sqm
O	15th - Floor	Rs.	2.46	Rs.	104.00	Rs.	106.46	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	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 STAIRCA SES	SHEAR WALLS, RCC WALLS, WATER TANK WALLS
Material Hire for any Floor	H	1180.00	233.00	355.00	2085.00	236.00	243.00	254.00	858.00	602.00	2370.00	2404.00	3833.00	292.00	1206.00
Labour Charges for 1st Floor	L	1538.00	236.00	2160.00	1812.00	205.00	211.00	221.00	746.00	523.00	2060.00	2089.00	3331.00	254.00	1574.00
Total Hire Charges (H+L)	T	2718.00	469.00	2515.00	3897.00	441.00	454.00	475.00	1604.00	1125.00	4430.00	4493.00	7164.00	546.00	2780.00

1st - Floor	L	1538.00	236.00	2160.00	1812.00	205.00	211.00	221.00	746.00	523.00	2060.00	2089.00	3331.00	254.00	1574.00
2nd - Floor	L	1692.00	260.00	2376.00	1993.00	226.00	232.00	243.00	821.00	575.00	2266.00	2298.00	3664.00	279.00	1731.00
3rd - Floor	L	1846.00	283.00	2592.00	2174.00	246.00	253.00	265.00	895.00	628.00	2472.00	2507.00	3997.00	305.00	1889.00
4th - Floor	L	1999.00	307.00	2808.00	2356.00	267.00	274.00	287.00	970.00	680.00	2678.00	2716.00	4330.00	330.00	2046.00
5th - Floor	L	2153.00	330.00	3024.00	2537.00	287.00	295.00	309.00	1044.00	732.00	2884.00	2925.00	4663.00	356.00	2204.00
6th - Floor	L	2307.00	354.00	3240.00	2718.00	308.00	317.00	332.00	1119.00	785.00	3090.00	3134.00	4997.00	381.00	2361.00
7th - Floor	L	2461.00	378.00	3456.00	2899.00	328.00	338.00	354.00	1194.00	837.00	3296.00	3342.00	5330.00	406.00	2518.00
8th - Floor	L	2615.00	401.00	3672.00	3080.00	349.00	359.00	376.00	1268.00	889.00	3502.00	3551.00	5663.00	432.00	2676.00
9th - Floor	L	2768.00	425.00	3888.00	3262.00	369.00	380.00	398.00	1343.00	941.00	3708.00	3760.00	5996.00	457.00	2833.00
10th - Floor	L	2922.00	448.00	4104.00	3443.00	390.00	401.00	420.00	1417.00	994.00	3914.00	3969.00	6329.00	483.00	2991.00
11th - Floor	L	3076.00	472.00	4320.00	3624.00	410.00	422.00	442.00	1492.00	1046.00	4120.00	4178.00	6662.00	508.00	3148.00
12th - Floor	L	3230.00	496.00	4536.00	3805.00	431.00	443.00	464.00	1567.00	1098.00	4326.00	4387.00	6995.00	533.00	3305.00
13th - Floor	L	3384.00	519.00	4752.00	3986.00	451.00	464.00	486.00	1641.00	1151.00	4532.00	4596.00	7328.00	559.00	3463.00
14th - Floor	L	3537.00	543.00	4968.00	4168.00	472.00	485.00	508.00	1716.00	1203.00	4738.00	4805.00	7661.00	584.00	3620.00
15th - Floor	L	3691.00	566.00	5184.00	4349.00	492.00	506.00	530.00	1790.00	1255.00	4944.00	5014.00	7994.00	610.00	3778.00

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

CENTERING & SCAFFOLDING CHARGES- FLOOR WISE RATES for Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates, Steel Centring Plates etc., for unsupported height 3.66 M														
FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5 M Span	ARCH BEAMS - above 1.5 M Span	DOME SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	790.00	156.00	238.00	1395.00	158.00	163.00	170.00	575.00	403.00	1586.00	1609.00	2566.00	196.00
Labour Charges for 1st Floor	L	1191.00	183.00	1673.00	1403.00	159.00	164.00	171.00	578.00	405.00	1595.00	1617.00	2579.00	197.00
Total Hire Charges (H+L)	T	1981.00	339.00	1911.00	2798.00	317.00	327.00	341.00	1153.00	808.00	3181.00	3226.00	5145.00	393.00
1st - Floor	L	1191.00	183.00	1673.00	1403.00	159.00	164.00	171.00	578.00	405.00	1595.00	1617.00	2579.00	197.00
2nd - Floor	L	1310.00	201.00	1840.00	1543.00	175.00	180.00	188.00	636.00	446.00	1755.00	1779.00	2837.00	217.00
3rd - Floor	L	1429.00	220.00	2008.00	1684.00	191.00	197.00	205.00	694.00	486.00	1914.00	1940.00	3095.00	236.00
4th - Floor	L	1548.00	238.00	2175.00	1824.00	207.00	213.00	222.00	751.00	527.00	2074.00	2102.00	3353.00	256.00
5th - Floor	L	1667.00	256.00	2342.00	1964.00	223.00	230.00	239.00	809.00	567.00	2233.00	2264.00	3611.00	276.00
6th - Floor	L	1787.00	275.00	2510.00	2105.00	239.00	246.00	257.00	867.00	608.00	2393.00	2426.00	3869.00	296.00
7th - Floor	L	1906.00	293.00	2677.00	2245.00	254.00	262.00	274.00	925.00	648.00	2552.00	2587.00	4126.00	315.00
8th - Floor	L	2025.00	311.00	2844.00	2385.00	270.00	279.00	291.00	983.00	689.00	2712.00	2749.00	4384.00	335.00
9th - Floor	L	2144.00	329.00	3011.00	2525.00	286.00	295.00	308.00	1040.00	729.00	2871.00	2911.00	4642.00	355.00
10th - Floor	L	2263.00	348.00	3179.00	2666.00	302.00	312.00	325.00	1098.00	770.00	3031.00	3072.00	4900.00	374.00
11th - Floor	L	2382.00	366.00	3346.00	2806.00	318.00	328.00	342.00	1156.00	810.00	3190.00	3234.00	5158.00	394.00
12th - Floor	L	2501.00	384.00	3513.00	2946.00	334.00	344.00	359.00	1214.00	851.00	3350.00	3396.00	5416.00	414.00
13th - Floor	L	2620.00	403.00	3681.00	3087.00	350.00	361.00	376.00	1272.00	891.00	3509.00	3557.00	5674.00	433.00
14th - Floor	L	2739.00	421.00	3848.00	3227.00	366.00	377.00	393.00	1329.00	932.00	3669.00	3719.00	5932.00	453.00
15th - Floor	L	2858.00	439.00	4015.00	3367.00	382.00	394.00	410.00	1387.00	972.00	3828.00	3881.00	6190.00	473.00

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 Aerated Blocks
<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>
I	SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES - Somany, H & R Johnson, Naveen Ceramics, Kajaria, Nitco, Sphinx, Orient Bell, AGL, Hindware, Cera, Varmora
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, Ricasil Cermaics Exxaro, Cera, Varmora
III	SUB-SECTION	CERAMIC WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, AGL, Hindware, Ricasil Cermaics Exxaro, Cera, Varmora
IV	SUB-SECTION	PORCELAIN WALL TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware, Ricasil Cermaics Exxaro, Cera, Varmora
V	SUB-SECTION	GLASS MOSAIC TILES - Bisazza
VI	SUB-SECTION	WALL CLADDING TILES - Somany, H & R Johnson, Kajaria, Sphinx, Orient Bell, Hindware, Cera
VII	SUB-SECTION	TERRAZZO FLOOR TILES (PLAIN & CHEQUERED) - Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx, Cemtech
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, Cemtech
X	SUB-SECTION	VINYL FLOORING - Marblex, Amstrong
		TILE ADHESIVE - MYK LATICRETE, JK Super Grip
<b>F</b>	<b>SECTION</b>	<b>GLASS MATERIALS</b> - Modifloat, Asahi, Saintgobain, Binani, HNG,
<b>G</b>	<b>SECTION</b>	<b>PAINTS &amp; POLISHES</b> - Asian, Berger, Nerolac, British Paints, JK Cements, Nexon paints, Indocem, ESSAR, Sheenlac, Suryacem, Neon, Wallz, Walrus - SYNTHETIC PLASTER - NCL-Cement Primer, NCL-Alltek, NCL-Skimcoat, Allteck Spray Plaster, NCL Gaiety, NCL-Delight, NCL-Harmony, Allteck Deco Orient, MYK LATICRETE, Multichem, Essar, J.K. White Cement, J.K.Wall Putty (White cement based), JK Primaxx(White Cement Based Primer), Smoothtek, Shalimar, Snowcem
<b>H</b>	<b>SECTION</b>	<b>PARTICLE BOARDS</b> - NCL Bison, Ramco-Hilux, Ramco-Hicem, Everest-board, Visaka-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, Mayur, Amul Boards
<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, Rock Srength, Aerolite, USG Boral
<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, Rehau, Arpitha, Nandi
<b>M</b>	<b>SECTION</b>	<b>WINDOWS</b> - NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, NCL-Wintech, Fenesta, LG, Ahlada, Rehau, Arpitha, Win-Eshtas-Viswajeet Industries, Aparna, ecoVUE
<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, Rehau, Arpitha
<b>P</b>	<b>SECTION</b>	<b>FIXTURES FOR DOORS &amp; WINDOWS</b> - Jyoti, Classic, Hardwyn, AKS for SS
<b>Q</b>	<b>SECTION</b>	<b>CONSTRUCTION CHEMICALS &amp; ADMIXTURES</b>
		<b>MAKE, APPLICATION METHOD, AREA AND DOSAGE</b>

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
I	SUB-SECTION	<b>PLASTICIZERS</b>
	TBSC-Q.I-01	* Consplast 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**MYK SAVEMIX SERIES M/S by MYK Schomburg,Hyderabad.* "MYK SAVEMIX" dosage from 0.5% - 1.5% by weight of cement
	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, ** MYK Remecrete PC30 M/S by MYK Schomburg,Hyderabad.* Dosage 0.5 to 1 Ltr per 100kgs 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 * Power35 of EBT (Dosage : 300 ml to 500 ml Per Bag of 50 Kgs Cement) * MYK Savemix RP 333 M/S by MYK Schomburg,Hyderabad.* Dosage at a rate between 0.15 and 0.40 kgs /50 kg cement
	TBSC-Q.I-04	*Roofplast SP 45 of Armstrong Chemicals Pvt Ltd, Bengaluru*Consplast SP 430 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriplast SP 450 of Protect More Construction Chemicals (Dosage: 200ml to 500ml per bag of 50 Kgs Cement) for high early strength and high range water reducing admixture for M40+ grade concrete works like road projects / Canal linings / Dams / Reservoirs / Building's concrete works *Power45 of EBT (Dosage : 300 ml to 500 ml Per Bag of 50 Kgs Cement) * MYK Remecrete PC10 M/S by MYK Schomburg,Hyderabad.* Dosage range between 0.3 to 2.5 ltrs/100 kg of cementitious material
	TBSC-Q.I-05	*Roofplast SR 45 of Armstrong Chemicals Pvt Ltd, Bengaluru*Conplast RP264 of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoriplast SRT 5 of Protect More Construction Chemicals (Dosage : 300ml to 400ml per bag of 50 Kgs Cement).For delaying of initial setting time and M 40+ Grade concrete works * Power SR 45 of EBT (Dosage: 200 ml to 500 ml per bag of 50 Kgs Cement) * MYK Savemix RP 333 M/S by MYK Schomburg,Hyderabad.* Dosage at a rate between 0.15 and 0.40 kgs /50 kg cement
	TBSC-Q.I-06	*Roofplast SCA of Armstrong Chemicals Pvt Ltd, Bengaluru*Conplast NC of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoriset of Protect More Construction Chemicals (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required).For shotcrete / Guniting / Emergency concrete works * Power-200 of EBT or Equivalent (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required )
	TBSC-Q.I-07	ALSTRONG CA 353 of M/s. Armstrong Chemicals Pvt Ltd , Bengaluru / ZORIBOND CRA 35 of M/s. Protect More Construction Chemicals ( PMCC). POWER n STRENGTH of M/s. EBT Construction Chemicals / FOSROC ( 500ml Per Bag of 50 Kgs Cement)
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) *MYK PROOF WP10 M/S by MYK SCHOMBURG,Hyderabad. Dosage - 150-200Gms per bag of cement * E160 of Ardex Endura : (200 ml per 50 Kgs Bag)

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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.*Masre Seal 550 Grey of Base. (12-14 m2 in two coats to achieve 1mm thickness ). Terrace, Water Tanks, Walls Waterproof Coatings : of Two Part System: *EBT - Power RFX *MYK BETOCRETE C-35 M/S by MYK Schomburg,Hyderabad Dosage - 0.8 - 1.5% by weight of cement * WPM 004 of Ardex Endura : (12-14 m2 in two coats to achieve 1mm thickness)
	TBSC-Q.II-03	* Roofcoat of Armstrong Chemicals Pvt Ltd, Bengaluru * Brushbond of Fosroc Chemicals India Pvt Ltd, Bengaluru * Zoricoat of Protect More Construction Chemicals Terrace, Water Tanks, Walls, Reservoirs Waterproofing Coatings : Surface treatments* Asian Paints *MYK AQUAFIN ADMIX M/S by MYK Schomburg,Hyderabad-Dosage Rate: w/c ratio < 0.45: 2 % of cement content w/c ratio > 0.45: 3 % of cement content * WPM 004 OF Ardex Endura
	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 : **MYK Coat WPU-1K(E) M/S by MYK Schomburg,Hyderabad - Coverage at minimum of 1.8kg per m2 for thickness of 1.1 mm * WPM 004 OF Ardex Endura
	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: *MYK AQUAFIN TG M/S by MYK Schomburg,Hyderabad Dosage Rate: at 1.5-2.5 kg/m <sup>2</sup> . * A4/5 WPM 401 of Ardex Endura
	TBSC-Q.II-06	*Rainseal Flexi Coat B30 of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru. *Zoricoat BL of Protect More Construction Chemicals. : wherever highly flexible, crack bridging, Sewage treatment plants, pipe lines, Reservoirs and waterproofing required. *MYK Schomburg * WPM 004 of Ardex Endura
	TBSC-Q.II-07	ROOFBOND FRC of M/s. Armstrong Chemicals Pvt Ltd, Bengaluru / ZORICOAT FRC of M/s. Protect More Construction Chemicals ( PMCC). POWER n BOND FRX 2 of M/s. EBT Construction Chemicals / FOSROC ( Coverage : 30 to 40 SFT / Ltr / Two coats )
	TBSC-Q.II-08	RAINSEAL CFR of M/s. Armstrong Chemicals Pvt Ltd, Bengaluru / ZORICOAT EFC of M/s. Protect More Construction Chemicals ( PMCC). POWER n COAT EFC of M/s. EBT Construction Chemicals / FOSROC
	TBSC-Q.II-09	ALSTRONG CC 153 of M/s. Armstrong Chemicals Pvt Ltd, Bengaluru / ZORIBOND CTC 15 of M/s. Protect More Construction Chemicals ( PMCC) ( Coverage : 1 Ltr 20 SFT / 2 Coats ). POWER n STRENGTH PEN of M/s. EBT Construction Chemicals / FOSROC
	TBSC-Q.II-10	ROOFCARE PU of M/s. Armstrong Chemicals Pvt Ltd, Bengaluru / ZORICOAT PU of M/s. Protect More Construction Chemicals ( PMCC) , POWER n COAT BPU of M/s. EBT Construction Chemicals / FOSROC.
	TBSC-Q.II-11	ROOFCARE WR of M/s. Armstrong Chemicals Pvt Ltd, Bengaluru / ZORICOAT WR of M/s. Protect More Construction Chemicals ( PMCC), POWER n REPEL WR of M/s. EBT Construction Chemicals / FOSROC
III	SUB-SECTION	<b>BONDING AGENTS/ ADHESIVES</b>

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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 : *MYK bond AR 43 M/S by MYKSchomburg,Hyderabad* Coverage: as a bonding agent: approximate 4 - 5 m2 / kg depending on substrate porosity* E135 of Ardex Endura (2.5 Lit for 50 Kgs of cement)
	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 *MYK bond SBR 45 M/S by MYKSchomburg,Hyderabad* Dosage :For patching and repair mortars and plaster for masonry 10 Ltr of MYK Bond SBR per 50 Kgs- cement* E135 of Ardex Endura (2.5 Lit for 50 Kgs of cement)
	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 : *MYK Bond EB A M/S by MYKSchomburg,Hyderabad* Coverage Approx. 2.6 Sq Mtrs per 1 kgs * EP 300 of Ardex Endura (10 sqm per 5 Lit per coat of 50 microns)
	TBSC-Q.III-04	Admix AD1 of Ardex Endura
		Silver/Diamond & Platinum stars of Ardex Endura
		ALSTRONG CA 353 of M/s. Armstrong Chemicals Pvt Ltd , Bengaluru / ZORIBOND CRA 35 of M/s. Protect More Construction Chemicals ( PMCC). POWER n STRENGTH of M/s. EBT Construction Chemicals / FOSROC ( 500ml Per Bag of 50 Kgs Cement)
		ALSTRONG CB 253 of M/s. Armstrong Chemicals Pvt Ltd , Bengaluru / ZORIBOND CB 25 of M/s. Protect More Construction Chemicals ( PMCC). POWER n BOND RGB of M/s. EBT Construction Chemicals / FOSROC ( Coverage : 1 Ltr / 40 SFT / Coat )
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 ) * Concare-XL (200 ml to 250 ml per Bag of Cement To protect the exposed reinforcement / steel structures against corrosion : *MYK RUST Remover M/S by MYK Schomburg,Hyderabad*
	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 : *MYK RUST CONVERTOR M/S by MYKSchomburg,Hyderabad*
	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) *MYK Savemix CN 100 M/S by MYK Schomburg,Hyderabad - Recommended 0.90 chloride to nitrite ratio 30% CaNO2 Sol * EP 410 of Ardex Endura (Coverage : 10 Sq.Mtr. /5 Ltr / Coat of 250 Microns)
	TBSC-Q.IV-04	Supply of anti-corrosion admixture inhibitor liquid as per Central Electro Chemical Research Institute developed specification and licensee of Concare or Concare Plus or Equivalent (300 ml to 500 ml per Bag of 50 Kgs Cement) *MYK Schomburg
V	SUB-SECTION	<b>GROUTS</b>



Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	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 :*EBT Power Anchor grout . (Yield 0.5 Ltrs / 1 Kg Pack) *MYK GROUT M 65 Yield: 13.0 Lts at flow able consistency for 25 Kgs of HDPE bags
	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 : *EBT Power GP2 Grout (Yield 13.5 Ltrs Per 25 Kgs Bag). *MYK Schomburg MYK Grout Inject E-200 Approx 1.06 kg for filling up of 1000 cc
	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 : *EBT Power EPL Grout *MYK Schomburg MYK Grout EP750 (Yield: Approx. 9.5 Litre volume per 19 kg pack)
	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 *EBT Power EP Grout *MYK Schomburg MYK INDUGROUT-EP10 approx. 1.60 kg/liters or 16.0 k g/10 mm thick gap/m2.
	TBSC-Q.V-05	RAPIDSTRONG GROUT PU of M/s. Armstrong Chemicals Pvt Ltd , Bengaluru / ZORIGROUT PU of M/s. Protect More Construction Chemicals (PMCC). M/s. POWER n GROUT RPU of M/s. EBT Construction Chemicals / FOSROC
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 ) *MYK Schomburg
	TBSC-Q.VI-02	*Rapidstrong FM of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd. Bengaluru. *Zorifloor NH of Protect More Construction Chemicals. :( Coverage : May be applied at rate 3.5 Kgs /m2 over green concrete for normal traffic & 6-12 Kg / M2 for heavy traffic. Higher application rates yield better abrasion resistance)* EBT PowerHard M-100 *MYK Schomburg
	TBSC-Q.VI-03	* Rapidstrong NH of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoflor Hardtop/Hard Standard of Fosroc Chemicals India Pvt Ltd, Bengaluru. * Zorifloor DH of Protect More Construction Chemicals* Mastertof 100 Grey of BASF :( Coverage : May be applied at rate 3.5 Kgs /m2 over green concrete for normal traffic & 6-12 Kg / M2 for heavy traffic. Higher application rates yield better abrasion resistance) *EBT 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) *MYK Schomburg MYK TOP 150 Application rate Kg/M2 Intended traffic use AvgWear (IS1237-1980) 7 kgs Heavy <2mm 5 Kgs Medium >2<3.5mm 3 kgs Light >3.5<4mm
	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. *MYK Schomburg MYK Top 200 Coverage : Light traffic 2.5 to 3.5 edium traffic 4 to 5 kg/m <sup>2</sup> Heavy traffic 6 to 7 kg/m <sup>2</sup>

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
	TBSC-Q.VI-05	*Roofcrete AR of Armstrong Chemicals Pvt Ltd, Bengaluru *Cemtop 400 SD of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoricrete CMG of Protect More Construction Chemicals. To achieve High Strength Concreting / Structural rehabilitation / concrete repairs : *MYK Schomburg MYK SOLOPLAN -30 For layers of less than 20 mm recommend 5.0 - 5.4 L of water to 25 kg of SOLOPLAN-30. For layers of 20 mm and higher, we recommend 4.7 - 5.1 L of water to 25 kg of SOLOPLAN-30.
	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: *MYK Schomburg MYK Crete CMS 4500 M/S by MYKSchomburg,Hyderabad* applied up to 50mm thickness at 2kg per m2 at 1mm thickness.
	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., : *MYK Schomburg
	TBSC-Q.VI-08	*Roofseal PU of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoseal PU 280 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriseal PU of Protect More Construction Chemicals. For Expansion Joints / Terrace Cracks / Wall & Beam junction cracks ; Runway Joints etc., : *MYK Schomburg
	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 : *MYK Schomburg
	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 *MYK Schomburg
	TBSC-Q.VI-11	*Wonderseal Plug of Armstrong Chemicals Pvt Ltd, Bengaluru *Renderroc Plug of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriseal Plug of Protect More Construction Chemicals.
	TBSC-Q.VI-12	*Roofcoat PU400 of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitocote UR 512 of Fosroc Chemicals India Pvt Ltd, Bengaluru*Zoricoat PU of Protect More Construction Chemicals. for floorings / Walls.
	TBSC-Q.VI-13	*Roofguard CTE of Armstrong Chemicals Pvt Ltd, Bengaluru*Nitocote ET 550 of Fosroc Chemicals India Pvt Ltd, Bengaluru/ *Zoriguard CTE of Protect More Construction Chemical. : tar based epoxy coating for sewage treatment plants, pipe lines protective coating for steel reinforcement.
	TBSC-Q.VI-14	*Roofexure WB of Armstrong Chemicals Pvt Ltd, Bengaluru *Concure WB of Fosroc Chemicals Pvt Ltd, Bengaluru *Zoricure WB of Protect More Construction Chemicals. (Coverage : 4 Sq. Mtrs / Ltr / Coat )
	TBSC-Q.VI-15	*Rainseal BS of Armstrong Chemicals Pvt Ltd, Bengaluru *Fosroc Chemicals India Pvt Ltd, Bengaluru. *Zoriseal BS Grade 'A' of Protect More Construction Chemicals. for construction joints of roads / bridges.
	TBSC-Q.VI-16	*Rainseal BT Primer of Armstrong Chemicals Pvt Ltd, Bengaluru *Nitoproof 100 of Fosroc Chemicals India Pvt Ltd, Bengaluru *Zoriprime BT of Protect More Construction Chemicals.
	TBSC-Q.VI-17	*Roofplast AEA of Armstrong Chemicals Pvt Ltd Bengaluru*Conplast AEA of Fosroc Chemicals India Pvt Ltd, Bengaluru (Dosage : 200ml Per 50 Kgs Cement)*Zoriplast AEA of Protect More Construction Chemicals. (Dosage : 15ml to 20ml per bag of 50 Kgs Cement) For entrainment of air, recommended for canal lining works, mass concreting etc : *EBT Power AEA Plasticizer (Dosage : 15ml per Bag of 50 Kgs Cement)

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
		Multifilament Polypropylene fibers of Belmix belgian fibers ISO 9001 Certified 6/12/18 mm length for Plastering, Screeds, All Precasting items 90 gms per each cement bag. * Multifilament Polypropylene fibers of Belmix belgian fibers ISO 9001 Certified 6/12/18 mm length for CC Roads, Car Parkings, Pavements each 900 gms per each Cubic Meter Concrete.
		Macro Synthetic Fibers of Propex ASTM C1116/ 1116M -45mm length for CC Roads, Ground Supported Slabs, Pavements, Sprayed Concrete,Tunnel linings, Mining etc., 4 to7 kg per 1 CuM
		Steel Fibers of Propex Novocon HE05535 EN 14889-1:2006 -35mm length for CC Roads, Ground Supported Slabs, Pavements, Sprayed Concrete,Tunnel linings, Mining etc., 15 to 22 kg per 1 CuM
		ALSTRONG CM 666 of M/s. Armstrong Chemicals Pvt Ltd , Bengaluru / ZORICOAT CM of M/s. Protect More Construction Chemicals ( PMCC). M/s. POWER n GUARD ADM of EBT Construction Chemicals / FOSROC ( Coverage : 1 Ltr / 40 SFT / Coat )
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/ Asian
	TBSC-Q.VII-4	ROOFBOND RFX of Armstrong /BRUSHBOND RFX of Fosroc / ZORIBOND RFX of PMCC. * MYK Schomburg MYK AQUAFIN TG M/S by MYK Schomburg,Hyderabad.* MYK AQUAFIN TG is a two component cementations, polymer dispersion based flexible protective coating and waterproof barrier. This product is two-component and resistant to water, moisture and abrasion. Dosage Rate: MYK AQUAFIN TG to be applied typically at 1.5-2.5 kg/m <sup>2</sup> .
	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. * MYK Schomburg MYK Coat WPU-1K(e) M/S by MYK Schomburg,Hyderabad.* Recommended coverage at minimum of 1.8kg per m <sup>2</sup> for thickness of 1.1 mm
	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)* MYK Schomburg Seal PS
	TBSC-Q.VII-09	Ador Granite Series of MYK Schomburg Coverage: Primer Approx. 0.350 kg/m <sup>2</sup> - final Texture Coat Approx. 0.70 to 0.80 kg/m <sup>2</sup>
	TBSC-Q.VII-10	MYK Schomburg Parking System - Coverage: Primer Approx. 0.350 kg/m <sup>2</sup> - final Coat Approx. 0.70 to 0.80 kg/m <sup>2</sup>

<b>Sl. No</b>	<b>SECTION</b>	<b>NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER</b>
	TBSC-Q.VII-11	MYK Schomburg Conductive Flooring System - Coverage: Primer Approx. 0.350 kg/m <sup>2</sup> - final Coat Approx. 0.70 to 0.80 kg/m <sup>2</sup>
	TBSC-Q.VII-12	MYK Schomburg - Coverage: Approximately 0.450 kg/m <sup>2</sup> in two coat for a DFT of Approx 200 micron. Primer (10 % dilution with water) is approx 0.150 to 0.200 kg/m <sup>2</sup> Note: Higher consumption is expected on rough surfaces.
VIII	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) Aluminium Sections - Hindalco, Nalco, Jindal (e) ACP Sheets - Alucopanel, alucobonel, Reynobond, Lennox Durabuid, Alstrong legame, Alpolic, Alcomat, Alshine, Viva

# PLUMBING ITEMS

<b>INDEX FOR PLUMBING ITEMS OF TELANGANA BUILDINGS SoR: 2017-18</b>
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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>		
			<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		
II	SUB-SECTION	TBSP-A.II-01-59	S.W.G. FITTINGS		
III	SUB-SECTION	TBSP-A.III-01-05	LABOUR CHARGES FOR SWG WORKS		
<b>B</b>	<b>SECTION</b>		<b>MANHOLES &amp; INSPECTION CHAMBERS</b>		
I	SUB-SECTION	TBSP-B.I-01-04	MANHOLES		
II	SUB-SECTION	TBSP-B.II-01-13	INSPECTION CHAMBERS		
III	SUB-SECTION	TBSP-B.III-01-01	LABOUR CHARGES FOR IC WORKS		
<b>C</b>	<b>SECTION</b>		<b>CENTRIFUGAL CI PIPES &amp; FITTINGS - IS : 1729</b>		
I	SUB-SECTION	TBSP-C.I-01-06	SUPPLY & LAYING OF CAST IRON PIPES		
II	SUB-SECTION	TBSP-C.II-01-33	SUPPLYING & LAYING OF C.I. FITTINGS		
III	SUB-SECTION	TBSP-C.III-01-08	LABOUR CHARGES FOR CI PIPE WORKS		
<b>D</b>	<b>SECTION</b>		<b>CENTRIFUGAL CI PIPES &amp; FITTINGS - IS : 3989</b>		
I	SUB-SECTION	TBSP-D.I-01-13	SUPPLY OF CENTRIFUGAL CI PIPES		
II	SUB-SECTION	TBSP-D.II-01-95	SUPPLY OF C.I. SPUN FITTINGS		
<b>E</b>	<b>SECTION</b>		<b>VITREOUS CHINAWARE - SANITARY APPLIANCES</b>		
I	SUB-SECTION	TBSP-E.I-01-07	INDIAN WATER CLOSETS		
II	SUB-SECTION	TBSP-E.II-01-06	FLOOR MOUNTED EWC		
III	SUB-SECTION	TBSP-E.III-01-03	WALL MOUNTED EWC		
IV	SUB-SECTION	TBSP-E.IV-01-03	CISTERNS FOR WATER CLOSETS		
V	SUB-SECTION	TBSP-E.V-01-02	PLASTIC SEATS FOR WATER CLOSETS		
VI	SUB-SECTION	TBSP-E.VI-01-16	WASH HAND BASINS		
VII	SUB-SECTION	TBSP-E.VII-01-04	URINALS		
VIII	SUB-SECTION	TBSP-E.VIII-01-12	LABOUR CHARGES FOR SANITARY WARE		
<b>F</b>	<b>SECTION</b>		<b>CP FITTINGS - TAPS, FAUCETS &amp; ACCESSORIES</b>		
I	SUB-SECTION	TBSP-F.I-01-08	TAPS & FAUCETS - BIB TAPS		
II	SUB-SECTION	TBSP-F.II-01-09	TAPS & FAUCETS - PILLAR TAPS		
III	SUB-SECTION	TBSP-F.III-01-07	TAPS & FAUCETS - OTHER TAPS & SPOUTS		
IV	SUB-SECTION	TBSP-F.IV-01-07	STOP & ANGLE VALVES		
V	SUB-SECTION	TBSP-F.V-01-09	COMBINATION FAUCETS		
VI	SUB-SECTION	TBSP-F.VI-01-08	SHOWER ROSES & FITTINGS		
VII	SUB-SECTION	TBSP-F.VII-01-41	MISCELLANEOUS CP FITTINGS		
VIII	SUB-SECTION	TBSP-F.VIII-01-05	LABOUR CHARGES		
<b>G</b>	<b>SECTION</b>		<b>G.I. PIPES &amp; FITTINGS</b>		
I	SUB-SECTION	TBSP-G.I-01-13	G.I. PIPES		
II	SUB-SECTION	TBSP-G.II-01-24	G.I. FITTINGS		

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

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>516.00</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>444.00</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>743.00</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>661.00</b>
5	TBSP-A.I-05	Providing 152.4 mm CC bed 1:2:4 Prop: using 19.05mm gauge graded granite metal chips and cradling 101.6 mm SWG pipe line all round to have 75 mm nominal size thick cover over the sockets.	1 RM	<b>145.00</b>
6	TBSP-A.I-06	Providing 152.4 mm CC bed 1:2:4 Prop: using 19.05mm gauge graded granite metal chips and cradling 152.4 mm SWG pipe line all round to have 75 mm nominal size thick cover over the sockets.	1 RM	<b>249.00</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>100.00</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>187.00</b>
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>650.00</b>



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
<b>II</b>	SUB-SECTION	<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>188.00</b>
11	TBSP-A.II-02	Supply of SWG SP-1 pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	<b>326.00</b>
12	TBSP-A.II-03	Supply of SWG SP-1 pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	<b>504.00</b>
13	TBSP-A.II-04	Supply of SWG SP-1 pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	<b>922.00</b>
14	TBSP-A.II-05	Supply of SWG SP-1 pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	<b>1,329.00</b>
15	TBSP-A.II-06	Supply of SWG SP-1 pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	<b>1,809.00</b>
16	TBSP-A.II-07	Supply of SWG SP-2 pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	<b>232.00</b>
17	TBSP-A.II-08	Supply of SWG SP-2 pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	<b>345.00</b>
18	TBSP-A.II-09	Supply of SWG SP-2 pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	<b>622.00</b>
19	TBSP-A.II-10	Supply of SWG SP-2 pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	<b>977.00</b>
20	TBSP-A.II-11	Supply of SWG SP-2 pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	<b>1,502.00</b>
21	TBSP-A.II-12	Supply of SWG SP-2 pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	<b>1,947.00</b>
22	TBSP-A.II-13	Supply of SWG SP-2 pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	<b>2,242.00</b>
23	TBSP-A.II-14	Supply of SWG SP-2 pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	<b>2,862.00</b>
24	TBSP-A.II-15	Supply of SWG SP-3 pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	<b>296.00</b>
25	TBSP-A.II-16	Supply of SWG SP-3 pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	<b>431.00</b>
26	TBSP-A.II-17	Supply of SWG SP-3 pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	<b>762.00</b>
27	TBSP-A.II-18	Supply of SWG SP-3 pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	<b>1,158.00</b>
28	TBSP-A.II-19	Supply of SWG SP-3 pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	<b>1,618.00</b>
29	TBSP-A.II-20	Supply of SWG SP-3 pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	<b>2,055.00</b>
30	TBSP-A.II-21	Supply of SWG SP-2 pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	<b>2,365.00</b>
31	TBSP-A.II-22	Supply of SWG SP-3 pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	<b>3,218.00</b>
32	TBSP-A.II-23	Supply of SWG Bends conforming to IS standards - 100 mm dia	Each	<b>95.00</b>
33	TBSP-A.II-24	Supply of SWG Bends conforming to IS standards - 150 mm dia	Each	<b>175.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
34	TBSP-A.II-25	Supply of SWG Bends conforming to IS standards - 200 mm dia	Each	330.00
35	TBSP-A.II-26	Supply of SWG Bends conforming to IS standards - 250 mm dia	Each	668.00
36	TBSP-A.II-27	Supply of SWG Bends conforming to IS standards - 300 mm dia	Each	848.00
37	TBSP-A.II-28	Supply of SWG Bends conforming to IS standards - 350 mm dia	Each	1,059.00
38	TBSP-A.II-29	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 100 x 100	Each	182.00
39	TBSP-A.II-30	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 150 x 100	Each	268.00
40	TBSP-A.II-31	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 150 x 150	Each	292.00
41	TBSP-A.II-32	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 200 x 100	Each	416.00
42	TBSP-A.II-33	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 200 x 150	Each	486.00
43	TBSP-A.II-34	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 200 x 200	Each	558.00
44	TBSP-A.II-35	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 250 x 100	Each	656.00
45	TBSP-A.II-36	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 250 x 150	Each	865.00
46	TBSP-A.II-37	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 250 x 200	Each	1,071.00
47	TBSP-A.II-38	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 250 x 250	Each	1,282.00
48	TBSP-A.II-39	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 300 x 100	Each	935.00
49	TBSP-A.II-40	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 300 x 150	Each	1,197.00
50	TBSP-A.II-41	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 300 x 200	Each	1,459.00
51	TBSP-A.II-42	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 300 x 250	Each	1,723.00
52	TBSP-A.II-43	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 300 x 300	Each	1,984.00
53	TBSP-A.II-44	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 100	Each	1,166.00
54	TBSP-A.II-45	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 150	Each	1,495.00
55	TBSP-A.II-46	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 200	Each	1,823.00
56	TBSP-A.II-47	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 250	Each	2,149.00
57	TBSP-A.II-48	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 300	Each	2,479.00
58	TBSP-A.II-49	Supply of SWG Junctions (T's & Y's)conforming to IS standards with length of barrel 60 cm for - 350 x 350	Each	2,805.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
59	TBSP-A.II-50	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	35.00
60	TBSP-A.II-51	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	66.00
61	TBSP-A.II-52	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	125.00
62	TBSP-A.II-53	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	216.00
63	TBSP-A.II-54	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	342.00
64	TBSP-A.II-55	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	429.00
65	TBSP-A.II-56	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	264.00
66	TBSP-A.II-57	Supply of SWG Saddles conforming to IS standards 150 x 100 mm	Each	192.00
67	TBSP-A.II-58	Supply of SWG Saddles conforming to IS standards 200 x 100 mm	Each	330.00
68	TBSP-A.II-59	Supply of SWG Saddles conforming to IS standards 250 x 100 mm	Each	533.00
<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	252.00
70	TBSP-A.III-02	Labour charges only for laying, jointing and testing SWG pipes of any dia with airtight cement joints including excavation of trenches and socket pits in any soil up to 1524 mm (5'-0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	313.00
71	TBSP-A.III-03	Labour charges only for laying 101.6 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	40.00
72	TBSP-A.III-04	Labour charges only for laying 152.4 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	54.00
73	TBSP-A.III-05	Labour charges only for fixing and laying the SWG Junctions/ Plugs/ Bends of any dia with airtight cement joints as per standard practice	Each	33.00
<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>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	7,338.00
75	TBSP-B.I-02	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	11,694.00
76	TBSP-B.I-03	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for	Each	7,321.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		finished item of work as per Standard specification.		
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>11,649.00</b>
II	SUB-SECTION	<b>INSPECTION CHAMBERS &amp; COVERS</b>		
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>6,324.00</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>3,813.00</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 mm size CI frame and hinged cover.	Each	<b>473.00</b>
81	TBSP-B.II-04	Constructing Brick masonry support for G.I pipe with C.M 304.8 x 228.6 x 228.6 mm size 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>732.00</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>2,013.00</b>
87	TBSP-B.II-10	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	<b>2,998.00</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 50.8cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber (20 Kgs - Light weight)	Each	<b>1,295.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
90	TBSP-B.II-13	Supplying & fixing 50.8cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber(Medium weight) as per IS:1726 - 40 Kgs	Each	<b>2,674.00</b>
III	SUB-SECTION	<b>LABOUR CHARGES FOR IC WORKS</b>		
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>137.00</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	<b>SUPPLYING &amp; LAYING OF C.I. PIPES</b>		
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>789.00</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>1,037.00</b>
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>1,659.00</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>863.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>1,152.00</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>1,912.00</b>
II	SUB-SECTION	<b>SUPPLYING &amp; LAYING OF C.I. FITTINGS</b>		
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>308.00</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>391.00</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>648.00</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>381.00</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>473.00</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>1,032.00</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>480.00</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>751.00</b>

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2017-18</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>1,780.00</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>403.00</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>552.00</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>1,325.00</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>731.00</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>888.00</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>2,076.00</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>632.00</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>830.00</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>1,944.00</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>310.00</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>433.00</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>944.00</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>369.00</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>491.00</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>967.00</b>



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
122	TBSP-C.II-25	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing for 76.20 mm (3") C.I. Pipe	Each	<b>426.00</b>
123	TBSP-C.II-26	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing for 101.6 mm (4") C.I. Pipe	Each	<b>552.00</b>
124	TBSP-C.II-27	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixing for 152.4 mm (6") C.I. Pipe	Each	<b>1,124.00</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>560.00</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>686.00</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>342.00</b>
128	TBSP-C.II-31	Supplying & fixing CI Collars (double socket) 1st 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>188.00</b>
129	TBSP-C.II-32	Supplying & fixing CI Collars (double socket) 1st 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>236.00</b>
130	TBSP-C.II-33	Supplying & fixing CI Collars (double socket) 1st 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>677.00</b>
III	SUB-SECTION	<b>LABOUR CHARGES FOR CI PIPE WORKS</b>		
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>246.00</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>78.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	98.00
134	TBSP-C.III-04	Labour charges only fixing CI soil Double junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	106.00
135	TBSP-C.III-05	Labour charges only fixing CI soil Collars, Bends, Offsets etc., with cement caulked joints and fixing as per site requirements with standard practice	Each	49.00
136	TBSP-C.III-06	Labour charges only for fixing CI Nahany/ Floor traps with C.P. Grating fixing with white cement as per site requirements with standard practice	Each	64.00
137	TBSP-C.III-07	Boxing of Nahany traps in RCC floors	Each	207.00
138	TBSP-C.III-08	Boxing of W.C Traps in R.C.C floors	Each	415.00
<b>D</b>	<b>SECTION</b>	<b>CENTRIFUGAL CAST IRON PIPES &amp; FITTINGS AS PER IS: 3989 - 1984</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>SUPPLY OF CENTRIFUGAL CI PIPES</b>		
139	TBSP-D.I-01	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1,558.00
140	TBSP-D.I-02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	2,074.00
141	TBSP-D.I-03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	3,801.00
142	TBSP-D.I-04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1,729.00
143	TBSP-D.I-05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	2,333.00
144	TBSP-D.I-06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1,401.00
145	TBSP-D.I-07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1,871.00
146	TBSP-D.I-08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1,254.00
147	TBSP-D.I-09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1,666.00
148	TBSP-D.I-10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1,020.00
149	TBSP-D.I-11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1,330.00
150	TBSP-D.I-12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1,072.00
151	TBSP-D.I-13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1,330.00
<b>II</b>	<b>SUB-SECTION</b>	<b>SUPPLY OF C.I. SPUN FITTINGS</b>		
152	TBSP-D.II-01	75 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	372.00
153	TBSP-D.II-02	100 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	427.00
154	TBSP-D.II-03	75 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	533.00
155	TBSP-D.II-04	100 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	612.00
156	TBSP-D.II-05	150 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	1,168.00
157	TBSP-D.II-06	75 mm dia Cut pipes (pieces ) 2 feet (609.6 mm) CI (Spun) fittings	Each	734.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
158	TBSP-D.II-07	100 mm dia Cut pipes (pieces ) 2 feet (609.6 mm) CI (Spun) fittings	Each	811.00
159	TBSP-D.II-08	150 mm dia Cut pipes (pieces ) 2 feet (609.6 mm) CI (Spun) fittings	Each	1,463.00
160	TBSP-D.II-09	75 mm dia Cut pipes (pieces ) 3 feet (914.4 mm) CI (Spun) fittings	Each	1,126.00
161	TBSP-D.II-10	100 mm dia Cut pipes (pieces ) 3 feet (914.4 mm) CI (Spun) fittings	Each	1,519.00
162	TBSP-D.II-11	75 mm dia Cut pipes (pieces ) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1,239.00
163	TBSP-D.II-12	100 mm dia Cut pipes (pieces ) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1,854.00
164	TBSP-D.II-13	75 mm dia Plain Bend - CI (Spun) fittings	Each	383.00
165	TBSP-D.II-14	100 mm dia Plain Bend - CI (Spun) fittings	Each	450.00
166	TBSP-D.II-15	150 mm dia Plain Bend - CI (Spun) fittings	Each	1,073.00
167	TBSP-D.II-16	75 mm dia Door Bend - CI (Spun) fittings	Each	396.00
168	TBSP-D.II-17	100 mm dia Door Bend - CI (Spun) fittings	Each	513.00
169	TBSP-D.II-18	150 mm dia Door Bend - CI (Spun) fittings	Each	1,174.00
170	TBSP-D.II-19	75 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	383.00
171	TBSP-D.II-20	100 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	450.00
172	TBSP-D.II-21	150 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	1,073.00
173	TBSP-D.II-22	75 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	396.00
174	TBSP-D.II-23	100 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	513.00
175	TBSP-D.II-24	150 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	1,174.00
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	779.00
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	909.00
178	TBSP-D.II-27	75 mm dia Heel Rest Bend - CI (Spun) fittings	Each	407.00
179	TBSP-D.II-28	100 mm dia Heel Rest Bend - CI (Spun) fittings	Each	521.00
180	TBSP-D.II-29	150 mm dia Heel Rest Bend - CI (Spun) fittings	Each	1,106.00
181	TBSP-D.II-30	75 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	513.00
182	TBSP-D.II-31	100 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	692.00
183	TBSP-D.II-32	150 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	1,428.00
184	TBSP-D.II-33	75 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	605.00
185	TBSP-D.II-34	100 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	803.00
186	TBSP-D.II-35	150 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	1,508.00
187	TBSP-D.II-36	75 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	605.00
188	TBSP-D.II-37	100 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	803.00
189	TBSP-D.II-38	150 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	1,769.00
190	TBSP-D.II-39	75 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	663.00
191	TBSP-D.II-40	100 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	886.00
192	TBSP-D.II-41	150 mm dia Single Branch Door "Y" - CI (Spun)	Each	1,907.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		fittings		
193	TBSP-D.II-42	75 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	701.00
194	TBSP-D.II-43	100 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	943.00
195	TBSP-D.II-44	75 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	781.00
196	TBSP-D.II-45	100 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	984.00
197	TBSP-D.II-46	75 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	781.00
198	TBSP-D.II-47	100 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	984.00
199	TBSP-D.II-48	75 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	824.00
200	TBSP-D.II-49	100 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	1,068.00
201	TBSP-D.II-50	75 mm dia Shoe Bend - CI (Spun) fittings	Each	483.00
202	TBSP-D.II-51	100 mm dia Shoe Bend - CI (Spun) fittings	Each	565.00
203	TBSP-D.II-52	150 mm dia Shoe Bend - CI (Spun) fittings	Each	1,148.00
204	TBSP-D.II-53	75 mm dia Collar - CI (Spun) fittings	Each	331.00
205	TBSP-D.II-54	100 mm dia Collar - CI (Spun) fittings	Each	401.00
206	TBSP-D.II-55	150 mm dia Collar - CI (Spun) fittings	Each	824.00
207	TBSP-D.II-56	75 mm dia Cowl - CI (Spun) fittings	Each	292.00
208	TBSP-D.II-57	100 mm dia Cowl - CI (Spun) fittings	Each	331.00
209	TBSP-D.II-58	150 mm dia Cowl - CI (Spun) fittings	Each	742.00
210	TBSP-D.II-59	75 mm dia Offset 3" (75 mm nominal size ) projection - CI (Spun) fittings	Each	423.00
211	TBSP-D.II-60	100 mm dia Offset 3" (75 mm nominal size ) projection - CI (Spun) fittings	Each	513.00
212	TBSP-D.II-61	150 mm dia Offset 3" (75 mm nominal size ) projection - CI (Spun) fittings	Each	1,036.00
213	TBSP-D.II-62	75 mm dia Offset 6" (152.4mm ) projection - CI (Spun) fittings	Each	462.00
214	TBSP-D.II-63	100 mm dia Offset 6" (152.4mm ) projection - CI (Spun) fittings	Each	605.00
215	TBSP-D.II-64	150 mm dia Offset 6" (152.4mm ) projection - CI (Spun) fittings	Each	1,206.00
216	TBSP-D.II-65	75 mm dia Long Door Bend - CI (Spun) fittings	Each	972.00
217	TBSP-D.II-66	100 mm dia Long Door Bend - CI (Spun) fittings	Each	1,046.00
218	TBSP-D.II-67	75 mm dia Hand Hole pipe ( Inspection pipe)	Each	559.00
219	TBSP-D.II-68	100 mm dia Hand Hole pipe ( Inspection pipe)	Each	760.00
220	TBSP-D.II-69	150 mm dia Hand Hole pipe ( Inspection pipe)	Each	1,013.00
221	TBSP-D.II-70	75 mm dia P Traps - CI (Spun) fittings	Each	605.00
222	TBSP-D.II-71	100 mm dia P Traps - CI (Spun) fittings	Each	829.00
223	TBSP-D.II-72	4" x 3" (101.6 mm x 76.2mm ) P. Traps 100 mm dia - CI (Spun) fittings	Each	950.00
224	TBSP-D.II-73	4" x 3" (101.6 mm x 76.2mm ) Vent Traps 100 mm dia - CI (Spun) fittings	Each	950.00
225	TBSP-D.II-74	4" x 3" (101.6 mm x 76.2mm ) Reducer 75 mm dia - CI (Spun) fittings	Each	590.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
226	TBSP-D.II-75	6" x 4" (152.4 mm x101.6 mm ) Reducer 75 mm dia - CI (Spun) fittings	Each	808.00
227	TBSP-D.II-76	3" x 2" ( 75 mm nominal size x 50 mm nominal size ) plain T 75 mm dia - CI (Spun) fittings	Each	505.00
228	TBSP-D.II-77	3" x 2" ( 75 mm nominal size x 50 mm nominal size ) Door T 75 mm dia - CI (Spun) fittings	Each	787.00
229	TBSP-D.II-78	3" x 2" ( 75 mm nominal size x 50 mm nominal size ) Plain Y 75 mm dia - CI (Spun) fittings	Each	787.00
230	TBSP-D.II-79	3" x 2" ( 75 mm nominal size x 50 mm nominal size ) Door Y 75 mm dia - CI (Spun) fittings	Each	787.00
231	TBSP-D.II-80	4" x 3" (101.6 mm x 76.2mm ) Plain T75 mm dia - CI (Spun) fittings	Each	787.00
232	TBSP-D.II-81	4" x 3" (101.6 mm x 76.2mm ) Door T75 mm dia - CI (Spun) fittings	Each	834.00
233	TBSP-D.II-82	4" x 3" (101.6 mm x 76.2mm ) Plain Y75 mm dia - CI (Spun) fittings	Each	834.00
234	TBSP-D.II-83	4" x 3" (101.6 mm x 76.2mm ) DoorY75 mm dia - CI (Spun) fittings	Each	890.00
235	TBSP-D.II-84	6" x 4" (152.4 mm x101.6 mm ) Plain T 75 mm dia - CI (Spun) fittings	Each	1,165.00
236	TBSP-D.II-85	6" x 4" (152.4 mm x101.6 mm )Door T 75 mm dia - CI (Spun) fittings	Each	1,263.00
237	TBSP-D.II-86	6" x 4" (152.4 mm x101.6 mm ) Plain Y 75 mm dia - CI (Spun) fittings	Each	1,336.00
238	TBSP-D.II-87	6" x 4" (152.4 mm x101.6 mm )Door Y 75 mm dia - CI (Spun) fittings	Each	1,632.00
239	TBSP-D.II-88	75 mm dia Plain " T" 27 " (685.8 mm ) Special Types of Long Fittings	Each	1,692.00
240	TBSP-D.II-89	100 mm dia - Plain " T" 27 " (685.8 mm ) Special Types of Long CI (Spun) fittings	Each	2,376.00
241	TBSP-D.II-90	75 mm dia Door "T" 27" (685.8 mm )Special Types of Long CI (Spun) fittings	Each	1,889.00
242	TBSP-D.II-91	100mm dia Door "T" 27" (685.8 mm )Special Types of Long CI (Spun) fittings	Each	2,610.00
243	TBSP-D.II-92	75 mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1,889.00
244	TBSP-D.II-93	100mm dia Plain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2,610.00
245	TBSP-D.II-94	75 mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2,106.00
246	TBSP-D.II-95	100mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2,866.00
<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	990.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>990.00</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>1,495.00</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>1,572.00</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>240.00</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>310.00</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>93.00</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>1,756.00</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>1,854.00</b>
256	TBSP-E.II-03	Supply, Installation and commissioning approved make floor mounted Anglo Indian wash down EWC conforming to IS:2556 (Part 8)-2004 suit with 'P' or 'S' trap with dual flush porcelain cistern fixed on wash down EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap & 15 mm angle stop cock & 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: White Colour	Each	<b>6,229.00</b>
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>9,144.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>13,364.00</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>17,021.00</b>
III	SUB-SECTION	<b>WALL MOUNTED EWC</b>		
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>9,707.00</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>12,998.00</b>
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>15,334.00</b>
IV	SUB-SECTION	<b>CISTERN FOR WATER CLOSETS</b>		
263	TBSP-E.IV-01	Supplying & Fixing low down porcelain flushing tank with lid 10 Lit Capacity with internal components	Each	<b>2,392.00</b>
264	TBSP-E.IV-02	Supplying & Fixing internal cistern fittings for dual flush cisterns	Each	<b>1,651.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>3,717.00</b>
V	SUB-SECTION	<b>PLASTIC SEATS FOR WATER CLOSETS</b>		
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>841.00</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>1,672.00</b>
VI	SUB-SECTION	<b>WASH HAND BASINS</b>		
268	TBSP-E.VI-01	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 660 x 460 mm - Single C.P. Pillar cock	Each	<b>2,561.00</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 Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Single C.P. Pillar cock	Each	<b>2,268.00</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 Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Double C.P. Pillar cock	Each	<b>2,780.00</b>



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
271	TBSP-E.VI-04	Supplying & Fixing Indian make Flat Back Wash Hand Basin1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Single C.P. Pillar cock	Each	<b>1,682.00</b>
272	TBSP-E.VI-05	Supplying & Fixing Indian make Flat Back Wash Hand Basin1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Double C.P. Pillar cock	Each	<b>2,048.00</b>
273	TBSP-E.VI-06	Supplying & Fixing Indian make Flat Back Wash Hand Basin1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock	Each	<b>1,463.00</b>
274	TBSP-E.VI-07	Supplying & Fixing Indian make Flat Back Wash Hand Basin1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Double C.P. Pillar cock	Each	<b>1,902.00</b>
275	TBSP-E.VI-08	Supplying & Fixing Indian make below counter Wash Hand Basin1st quality with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block with single CP pillar cock	Each	<b>3,997.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
276	TBSP-E.VI-09	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 600 x 400 x 250	Each	4,680.00
277	TBSP-E.VI-10	Supplying & Fixing Indian make white glazed vitreous china porcelain sink conforming to IS:2556-Part-5-1994 on cantilever brackets with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 750 x 450 x 250	Each	5,266.00
278	TBSP-E.VI-11	Supplying & fixing oval shape basin white (520x410mm)parry or equivalent	Each	2,576.00
279	TBSP-E.VI-12	Supplying and Fixing Pedestal for Wash Hand Basin	Each	1,186.00
280	TBSP-E.VI-13	Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	7,127.00
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	5,619.00
282	TBSP-E.VI-15	Supplying & fixing stainless steel sink size 20" x18" x 8 "(508x457.2x203.2mm) 1 mm thick with accessories	Each	5,093.00
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	747.00
VII	SUB-SECTION	<b>URINALS</b>		
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	878.00
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	2,633.00
286	TBSP-E.VII-03	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader fixed with screws complete Indian make : 590 x 375 x 390 mm	Each	2,926.00
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	514.00
VIII	SUB-SECTION	<b>LABOUR CHARGES FOR SANITARY WARE</b>		
288	TBSP-E.VIII-01	Labour charges only for fixing Indian pattern W.C with "P" or "S" trap	Each	328.00
289	TBSP-E.VIII-02	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	409.00
290	TBSP-E.VIII-03	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	75.00
291	TBSP-E.VIII-04	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	572.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
292	TBSP-E.VIII-05	Labour charges only for fixing internal cistern fittings of any flushing tank	Each	285.00
293	TBSP-E.VIII-06	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	287.00
294	TBSP-E.VIII-07	Labour charges only for fixing plastic seat and lid for European water closet	Each	83.00
295	TBSP-E.VIII-08	Labour charges only for fixing Indian make Flat Back Wash Hand Basin with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting Pillar Taps complete with standard CI brackets including wooden block	Each	409.00
296	TBSP-E.VIII-09	Labour charges only for fixing pedestal for wash hand basin	Each	148.00
297	TBSP-E.VIII-10	Labour charges only for fixing bottle trap to the wash hand basin	Each	57.00
298	TBSP-E.VIII-11	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	163.00
299	TBSP-E.VIII-12	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	409.00
<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	255.00
301	TBSP-F.I-02	S&F of 15 mm brass body CP finish bib tap of not less than 300 grams weight with quarter turn spindle with either internal or external threaded connection conforming to IS 8931	Each	622.00
302	TBSP-F.I-03	S&F of 15 mm brass body premium variety Chromium Plated finish bib tap with wall flange of not less than 500 grams weight with quarter turn spindle with either internal or external threaded connection conforming to IS 8931 and with 10 years warranty	Each	883.00
303	TBSP-F.I-04	S&F of 15 mm brass body premium variety Chromium Plated finish bib tap angular shape with wall flange of not less than 500 grams weight with quarter turn spindle with either internal or external threaded connection conforming to IS 8931 and with 10 years warranty	Each	1,246.00
304	TBSP-F.I-05	S&F of 15 mm brass body CP finish two way bib tap of not less than 400 grams weight with quarter turn spindle internal/ external threaded connection conforming to IS 8931	Each	888.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
305	TBSP-F.I-06	S&F of 15 mm brass body premium variety Chromium Plated finish two way bib tap with flange of not less than 500 grams weight with quarter turn spindle internal/ external threaded connection conforming to IS 8931 and with 10 years warranty	Each	1,142.00
306	TBSP-F.I-07	S&F of Chromium plated finish brass body quarter turn Bibcock cum Health Faucet with 1m long tube and wall hook with 10 years warranty	Each	3,336.00
307	TBSP-F.I-08	S&F of 15 mm brass body CP finish long body bib tap of not less than 400 grams weight with quarter turn spindle internal / external threaded connection conforming to IS 8931	Each	795.00
II	SUB-SECTION	<b>TAPS &amp; FAUCETS - PILLAR TAPS</b>		
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	650.00
309	TBSP-F.II-02	S&F of 15 mm brass body CP finish pillar tap of not less than 500 grams weight quarter turn spindle conforming to IS 8931	Each	841.00
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 10 years	Each	857.00
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 10 years	Each	1,142.00
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 10 years	Each	1,246.00
313	TBSP-F.II-06	S&F premium make Sensotronic sensor faucet for wash basin, and with 10 years warranty	Each	15,087.00
314	TBSP-F.II-07	S&F premium make Sensotronic concealed type flushing valve for urinal complete set with installation box with control cock, and with 10 years warranty	Each	15,087.00
315	TBSP-F.II-08	S&F premium make Auto closing system pillar cock for wash basin, and with 10 years warranty	Each	2,500.00
316	TBSP-F.II-09	S&F premium make Auto Closing system Bibcock, and with 10 years warranty	Each	2,623.00
III	SUB-SECTION	<b>TAPS &amp; FAUCETS - OTHER TAPS &amp; SPOUTS</b>		
317	TBSP-F.III-01	S&F of 15 mm brass body CP finish self closing tap push type conforming to IS 1711	Each	282.00
318	TBSP-F.III-02	S&F of 15 mm brass body CP finish self closing tap lift type conforming to IS 1711	Each	247.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	1,662.00
320	TBSP-F.III-04	S&F of 15 mm brass body CP finish wall mounted sink spout with connecting legs & wall flanges swinging nozzle conforming to IS 8931 and with a warranty of 10 years	Each	2,388.00
321	TBSP-F.III-05	S&F of 15 mm brass body CP finish wall mounted sink spout with connecting legs & wall flanges fixed nozzle conforming to IS 8931 and with a warranty of 10 years	Each	1,454.00
322	TBSP-F.III-06	S&F of 15 mm bath tub spout minimum 180 mm projection with divertor system	Each	1,355.00
323	TBSP-F.III-07	S&F of 15 mm bath tub spout with tip ton minimum 180 mm projection with divertor system	Each	1,822.00
IV	SUB-SECTION	<b>STOP &amp; ANGLE VALVES</b>		
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	240.00
325	TBSP-F.IV-02	S & F 15 mm nominal size brass concealed stop valve screw type with internal /external threaded conforming to IS 8931	Each	257.00
326	TBSP-F.IV-03	S & F 15 mm nominal size CP finish brass angled stop valve screw type with internal /external threaded conforming to IS 8931	Each	246.00
327	TBSP-F.IV-04	S&F of 15 mm CP finish brass stop valve of not less than 400 grams weight quarter turn spindle with internal threaded conforming to IS 8931	Each	813.00
328	TBSP-F.IV-05	S&F of 15 mm CP finish brass concealed stop valve of not less than 400 grams weight quarter turn spindle conforming to IS 8931	Each	631.00
329	TBSP-F.IV-06	S&F of 15 mm CP finish brass concealed stop valve of not less than 400 grams weight with adjustable wall flange and quarter turn spindle conforming to IS 8931 and with 10 years warranty	Each	987.00
330	TBSP-F.IV-07	S&F of 15 mm brass angle stop valve of quarter turn spindle type of not less than 400 grams weight with internal threaded conforming to IS 8931	Each	631.00
V	SUB-SECTION	<b>COMBINATION FAUCETS</b>		
330	TBSP-F.V-01	S&F of 15 mm CP finish brass body wall mixer with hand shower with centre distance 150 mm conforming to IS 8931	Each	2,893.00
331	TBSP-F.V-02	S&F of 15 mm CP finish brass body wall mixer conforming to IS 8931 with centre distance 150 mm conforming to IS 8931	Each	2,229.00
332	TBSP-F.V-03	S&F of 15 mm premium variety Chromium plated finish brass body wall mixer with hand shower with a provision for over head shower with 115 mm long bend pipe on upper side, connecting legs & wall	Each	3,790.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
		flanges conforming to IS 8931 with 10 years warranty		
333	TBSP-F.V-04	S&F of 15 mm brass forged body concealed diverter with regular flow	Each	<b>3,509.00</b>
334	TBSP-F.V-05	S&F of 15 mm brass forged body concealed diverter with high flow	Each	<b>4,551.00</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>4,364.00</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 10 years warranty	Each	<b>2,846.00</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 10 years warranty	Each	<b>3,323.00</b>
338	TBSP-F.V-09	S&F of 15 mm central hole Chromium plated finish brass body sink mixer with swinging cascade round shape spout(wall/ table mounted model) with connecting legs & wall flanges conforming to IS 8931 and with 10 years warranty	Each	<b>2,907.00</b>
VI	SUB-SECTION	<b>SHOWER ROSES &amp; FITTINGS</b>		
339	TBSP-F.VI-01	S&F 15 mm nominal size 152.0 mm CP finish iron body shower rose	Each	<b>194.00</b>
340	TBSP-F.VI-02	S&F 15 mm nominal size 137.0 mm CP finish iron body shower rose	Each	<b>186.00</b>
341	TBSP-F.VI-03	S&F 15 mm nominal size 101.6 mm CP finish iron body shower rose	Each	<b>177.00</b>
342	TBSP-F.VI-04	S&F 15 mm nominal size CP finish shower rose 200 mm dia with CP finish flexible pipe	Each	<b>598.00</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>1,281.00</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 10 years warranty	Each	<b>1,558.00</b>
345	TBSP-F.VI-07	S&F 15 mm nominal size over head 5 flow round massage shower rose	Each	<b>907.00</b>
346	TBSP-F.VI-08	S&F 15 mm nominal size 5 flow handshower with rabbit cleaning system and 1.5 m long flexible hose and wall hook.	Each	<b>1,869.00</b>
VII	SUB-SECTION	<b>MISCELLANEOUS CP FITTINGS</b>		
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>266.00</b>
348	TBSP-F.VII-02	S&F of 15 mm CP finish brass body health faucet gun	Each	<b>219.00</b>
349	TBSP-F.VII-03	S&F CP finish brass bottle trap 250 mm long with wall connection pipe & wall Flange	Each	<b>987.00</b>
350	TBSP-F.VII-04	S&F CP finish brass bottle trap 190mm long with wall connection pipe & wall Flange	Each	<b>991.00</b>
351	TBSP-F.VII-05	S&F PVC bottle trap with wall connection pipe	Each	<b>148.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	243.00
353	TBSP-F.VII-07	S&F CP finish brass body 32 mm dia nominal size waste coupling with half/ full thread & brass body check nut and chain & plug conforming to IS 2963: 1979	Each	265.00
354	TBSP-F.VII-08	S&F CP finish brass body 32 mm dia nominal size waste coupling doom type with half/ full thread & brass body check nut conforming to IS 2963: 1979	Each	314.00
355	TBSP-F.VII-09	S&F brass body CP spreader for urinals	Each	162.00
356	TBSP-F.VII-10	S&F CP finish steel towel rod of 600 mm long and 20 mm dia with brackets	Each	412.00
357	TBSP-F.VII-11	S&F CP finish brass towel rod 600 mm long and 20 mm dia with brackets	Each	1,112.00
358	TBSP-F.VII-12	S&F of Towel rod 24 " premium make powder coated stainless steel body with 10 years warranty	Each	3,364.00
359	TBSP-F.VII-13	S&F CP finish brass wall mounted towel ring	Each	641.00
360	TBSP-F.VII-14	S&F of Chromium plated finish stainless steel body Towel Ring with 10 years warranty	Each	1,043.00
361	TBSP-F.VII-15	S&F of powder coated brass body finish Towel ring premium make with 10 years warranty	Each	2,153.00
362	TBSP-F.VII-16	S&F of Chromium plated finish stainless steel body towel rail 24"with 10 years warranty	Each	1,683.00
363	TBSP-F.VII-17	S&F powder coated stainless steel body wall mounted towel rack 600 mm long	Each	3,532.00
364	TBSP-F.VII-18	S&F CP finish brass metal body single coat hook	Each	421.00
365	TBSP-F.VII-19	S&F CP finish brass robe hook	Each	328.00
366	TBSP-F.VII-20	Supply & Fixing Double coat hook with 10 years warranty	Each	779.00
367	TBSP-F.VII-21	S&F CP finish brass soap dish	Each	589.00
368	TBSP-F.VII-22	S&F Stainless steel liquid soap container wall mounted and bottle type	Each	468.00
369	TBSP-F.VII-23	S&F premium make wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange and with 10 years warranty	Each	5,720.00
370	TBSP-F.VII-24	S&F premium make wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange powder coated with 10 years warranty	Each	8,997.00
371	TBSP-F.VII-25	S&F of Chromium plated finish stainless steel body Toilet paper holder with 10 years warranty	Each	907.00
372	TBSP-F.VII-26	S&F Stainless steel4" dia round Grating with frame for nahany or floor trap cover with or without hole	Each	66.00
373	TBSP-F.VII-27	S&F Stainless steel5" square Grating with frame for nahany or floor trap cover with or without hole	Each	79.00
374	TBSP-F.VII-28	S&F Stainless steel4" dia round Grating for nahany or floor trap cover with cockroach trap with or without hole	Each	172.00
375	TBSP-F.VII-29	S&F Stainless steel5" square Grating for nahany or floor trap cover with cockroach trap with or without hole	Each	179.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
376	TBSP-F.VII-30	S&F brass body plumber union of size 31.75 mm dia with check nut	Each	72.00
377	TBSP-F.VII-31	S&F brass body plumber union of size 38.1 mm dia with check nut	Each	78.00
378	TBSP-F.VII-32	S&F 4" dia CP thimble pipe: 150 mm long	Each	429.00
379	TBSP-F.VII-33	S&F 4" dia CP thimble pipe:220 mm long	Each	641.00
380	TBSP-F.VII-34	S&F 4" dia CP thimble pipe: 300 mm long	Each	856.00
381	TBSP-F.VII-35	S&F CP long bend	Each	363.00
382	TBSP-F.VII-36	S&F CP short bend	Each	182.00
383	TBSP-F.VII-37	Supply & fixing of LLC handle set 1stquality	Each	83.00
384	TBSP-F.VII-38	S&F premium make copper pipe 450 mm long with nuts & washers with 10 years warranty	Each	435.00
385	TBSP-F.VII-39	S&F premium make copper pipe 450 mm long with nuts & washers power colour coated and with 10 years warranty	Each	842.00
386	TBSP-F.VII-40	S&F of Chromium plated finish stainless steel body Tumbler holder with 10 years warranty	Each	1,135.00
387	TBSP-F.VII-41	S&F of Chromium plated finish stainless steel body Glass shelf 22"with 10 years warranty	Each	2,231.00
VIII	SUB-SECTION	<b>LABOUR CHARGES</b>		
388	TBSP-F.VIII-01	Labour charges for fixing all types of CP Taps & faucets	Each	51.00
389	TBSP-F.VIII-02	Labour charges for fixing all types of CP Stop & Angle Valves	Each	99.00
390	TBSP-F.VIII-03	Labour charges for fixing all types of wall combination taps, mixers & diverters	Each	175.00
391	TBSP-F.VIII-04	Labour charges for fixing all types of miscellaneous CP fittings	Each	99.00
392	TBSP-F.VIII-05	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000	29.00
<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	<b>G.I. PIPES</b>		
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	174.00
394	TBSP-G.I-02	S& F 20 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	200.00
395	TBSP-G.I-03	S& F 25 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	262.00
396	TBSP-G.I-04	S& F 32 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	364.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>412.00</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>449.00</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>193.00</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>214.00</b>
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>281.00</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>394.00</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>441.00</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>475.00</b>
405	TBSP-G.I-13	S & F 65 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239 with GI fittings such as elbows tees couplings, nipples, plugs including excavation for trenches and refilling the trenches complete except for GI bends union and GI connectors with checkout and socket Tata or Zenith make or equivalent.	1 RM	<b>842.00</b>
II	SUB-SECTION	<b>G.I. FITTINGS</b>		
406	TBSP-G.II-01	S& F GI union 15 mm nominal size 1st Quality	Each	<b>43.00</b>
407	TBSP-G.II-02	S& F GI union 20 mm nominal size 1st Quality	Each	<b>51.00</b>
408	TBSP-G.II-03	S& F GI union 25 mm nominal size 1st Quality	Each	<b>78.00</b>
409	TBSP-G.II-04	S& F GI union 30 mm nominal size 1st Quality	Each	<b>97.00</b>
410	TBSP-G.II-05	S& F GI union 40 mm nominal size 1st Quality	Each	<b>116.00</b>
411	TBSP-G.II-06	S& F GI union 50 mm nominal size 1st Quality	Each	<b>143.00</b>
412	TBSP-G.II-07	S& F GI connector 25 mm nominal size dia	Each	<b>86.00</b>
413	TBSP-G.II-08	S& F 15 mm nominal size GI 'T' A class 1st quality	Each	<b>52.00</b>
414	TBSP-G.II-09	S& F 30 mm nominal size dia GI bend 1st quality	Each	<b>78.00</b>
415	TBSP-G.II-10	S & F 30 mm nominal size dia GI 'T' 1st Quality	Each	<b>77.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
416	TBSP-G.II-11	S & F 25 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	443.00
417	TBSP-G.II-12	S & F 20 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	363.00
418	TBSP-G.II-13	S & F 15 mm nominal size copper body float valve with PVC ball Indian make ISI mark	Each	235.00
419	TBSP-G.II-14	Supplying & fixing leather washers for 15 mm nominal size bib tap and stop cock	Each	2.00
420	TBSP-G.II-15	Supplying & fixing leather washers for 20 mm nominal size bib tap and stop cock	Each	4.00
421	TBSP-G.II-16	Supplying & Fixing 15 mm nominal size fibre washers	Each	4.00
422	TBSP-G.II-17	Supplying & Fixing 20 mm nominal size fibre washers	Each	4.00
423	TBSP-G.II-18	S & F 15 mm nominal size holder bat clamps	Each	13.00
424	TBSP-G.II-19	S & F 20 mm nominal size holder bat clamps	Each	20.00
425	TBSP-G.II-20	S & F 25 mm nominal size holder bat clamps	Each	26.00
426	TBSP-G.II-21	S & F 40 mm nominal size holder bat clamps	Each	31.00
427	TBSP-G.II-22	Supplying & fixing 15 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	45.00
428	TBSP-G.II-23	Supplying & fixing 20 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	65.00
429	TBSP-G.II-24	Supplying & fixing 25 mm nominal size GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	77.00
III	SUB-SECTION	<b>BRONZE (COPPER ALLOY) VALVES</b>		
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	661.00
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	891.00
432	TBSP-G.III-03	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 25 mm NB Size	Each	1,281.00
433	TBSP-G.III-04	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 32 mm NB Size	Each	1,947.00
434	TBSP-G.III-05	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 40 mm NB Size	Each	2,630.00
435	TBSP-G.III-06	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 50 mm NB Size	Each	3,853.00
436	TBSP-G.III-07	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 65 mm NB Size	Each	5,949.00
437	TBSP-G.III-08	S & F Bronze Gate/ Globe valve as per IS - 778 Class - I, Indian make heavy type - 80 mm NB Size	Each	8,819.00
438	TBSP-G.III-09	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	488.00
439	TBSP-G.III-10	Supplying & fixing Bronze Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	713.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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>1,114.00</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>1,635.00</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>2,268.00</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>460.00</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>598.00</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>904.00</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>1,246.00</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>1,506.00</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>2,388.00</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>215.00</b>
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	<b>313.00</b>
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	<b>440.00</b>
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	<b>780.00</b>
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	<b>1,073.00</b>
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	<b>1,612.00</b>
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	<b>1,400.00</b>
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	<b>1,782.00</b>
IV	SUB-SECTION	<b>LABOUR CHARGES FOR G.I PLUMBING</b>		

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	<b>168.00</b>
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	<b>96.00</b>
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	<b>62.00</b>
<b>H</b>	<b>SECTION</b>	<b>PVC PIPES &amp; FITTINGS(Materials shall be procured from the list of approved Brands/Manufacturers/ Suppliers)</b>		
<b>I</b>	<b>SUB-SECTION</b>	<b>PVC PIPES</b>		
460	TBSP-H.I-01	75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>265.00</b>
461	TBSP-H.I-02	90 mm dia 3 M single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>421.00</b>
462	TBSP-H.I-03	110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>503.00</b>
463	TBSP-H.I-04	75 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>299.00</b>
464	TBSP-H.I-05	90 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>477.00</b>
465	TBSP-H.I-06	110 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>584.00</b>
466	TBSP-H.I-07	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>186.00</b>
467	TBSP-H.I-08	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>288.00</b>
468	TBSP-H.I-09	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>358.00</b>
469	TBSP-H.I-10	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>199.00</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>306.00</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>370.00</b>
472	TBSP-H.I-13	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>138.00</b>
473	TBSP-H.I-14	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>210.00</b>
474	TBSP-H.I-15	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>253.00</b>
475	TBSP-H.I-16	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>116.00</b>
476	TBSP-H.I-17	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>170.00</b>
477	TBSP-H.I-18	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>219.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
478	TBSP-H.I-19	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>70.00</b>
479	TBSP-H.I-20	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>117.00</b>
480	TBSP-H.I-21	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>146.00</b>
481	TBSP-H.I-22	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	<b>1,197.00</b>
482	TBSP-H.I-23	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>449.00</b>
483	TBSP-H.I-24	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>723.00</b>
484	TBSP-H.I-25	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>860.00</b>
485	TBSP-H.I-26	75 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>492.00</b>
486	TBSP-H.I-27	90 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>779.00</b>
487	TBSP-H.I-28	110 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>949.00</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>295.00</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>458.00</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>546.00</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>315.00</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>477.00</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>589.00</b>
494	TBSP-H.I-35	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>213.00</b>
495	TBSP-H.I-36	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>331.00</b>
496	TBSP-H.I-37	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>402.00</b>
497	TBSP-H.I-38	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>184.00</b>
498	TBSP-H.I-39	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>270.00</b>
499	TBSP-H.I-40	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>326.00</b>
500	TBSP-H.I-41	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>119.00</b>
501	TBSP-H.I-42	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>185.00</b>
502	TBSP-H.I-43	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>236.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
503	TBSP-H.I-44	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	<b>1,957.00</b>
II	SUB-SECTION	<b>PVC FITTINGS</b>		
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>7.00</b>
505	TBSP-H.II-02	Supply of Plastic storage tank lid with hinges	Each	<b>79.00</b>
506	TBSP-H.II-03	Supply & Fixing 75 mm nominal size dia PVC elbow 1st quality	Each	<b>49.00</b>
507	TBSP-H.II-04	Supply & fixing 30 mm nominal size dia PVC flexible waste pipe of 914.4 mm length of 1st quality	Each	<b>27.00</b>
508	TBSP-H.II-05	Supply & Fixing 40 mm nominal size dia PVC solid waste pipe outlet	Each	<b>93.00</b>
509	TBSP-H.II-06	Supply & fixing Fancy PVC shelf including all fittings	Each	<b>221.00</b>
510	TBSP-H.II-07	Supply & fixing of PVC low level system with internal components & short bend:10 Litres capacity Single Flush	Each	<b>1,511.00</b>
511	TBSP-H.II-08	Supply & fixing of PVC low level system with internal components & short bend:10 litres capacity Dual Flush	Each	<b>1,774.00</b>
512	TBSP-H.II-09	Supply & fixing of PVC low level system with internal components & short bend:8 Litres capacity single Flush	Each	<b>855.00</b>
513	TBSP-H.II-10	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>52.00</b>
514	TBSP-H.II-11	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>73.00</b>
515	TBSP-H.II-12	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>87.00</b>
516	TBSP-H.II-13	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>70.00</b>
517	TBSP-H.II-14	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>99.00</b>
518	TBSP-H.II-15	110 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	<b>112.00</b>
519	TBSP-H.II-16	75 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	<b>41.00</b>
520	TBSP-H.II-17	90 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	<b>57.00</b>
521	TBSP-H.II-18	110 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	<b>73.00</b>
522	TBSP-H.II-19	75 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	<b>70.00</b>
523	TBSP-H.II-20	90 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	<b>102.00</b>
524	TBSP-H.II-21	110 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	<b>123.00</b>
525	TBSP-H.II-22	75 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	<b>62.00</b>
526	TBSP-H.II-23	90 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	<b>93.00</b>
527	TBSP-H.II-24	110 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	<b>113.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
528	TBSP-H.II-25	75 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	76.00
529	TBSP-H.II-26	90 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	113.00
530	TBSP-H.II-27	110 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	135.00
531	TBSP-H.II-28	75 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	130.00
532	TBSP-H.II-29	90 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	190.00
533	TBSP-H.II-30	110 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	270.00
534	TBSP-H.II-31	75 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	208.00
535	TBSP-H.II-32	90 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	297.00
536	TBSP-H.II-33	110 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	307.00
537	TBSP-H.II-34	75 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	77.00
538	TBSP-H.II-35	90 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	123.00
539	TBSP-H.II-36	110 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	142.00
540	TBSP-H.II-37	75 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	99.00
541	TBSP-H.II-38	90 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	155.00
542	TBSP-H.II-39	110 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	178.00
543	TBSP-H.II-40	75 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	106.00
544	TBSP-H.II-41	90 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	165.00
545	TBSP-H.II-42	110 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	186.00
546	TBSP-H.II-43	75 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	138.00
547	TBSP-H.II-44	90 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	214.00
548	TBSP-H.II-45	110 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	240.00
549	TBSP-H.II-46	75 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	37.00
550	TBSP-H.II-47	90 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	53.00
551	TBSP-H.II-48	110 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	60.00
552	TBSP-H.II-49	90 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	62.00
553	TBSP-H.II-50	110 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	60.00
554	TBSP-H.II-51	90 x 110mm dia - Reducer - UPVC/SWR Pipe fittings	Each	83.00
555	TBSP-H.II-52	63 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	10.00
556	TBSP-H.II-53	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	15.00
557	TBSP-H.II-54	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	18.00
558	TBSP-H.II-55	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	20.00
559	TBSP-H.II-56	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	12.00
560	TBSP-H.II-57	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	15.00
561	TBSP-H.II-58	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	15.00
562	TBSP-H.II-59	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	16.00
563	TBSP-H.II-60	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	18.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
564	TBSP-H.II-61	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	19.00
565	TBSP-H.II-62	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	37.00
566	TBSP-H.II-63	P' Trap ( Small without Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	196.00
567	TBSP-H.II-64	P' Trap ( Small with Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	216.00
568	TBSP-H.II-65	P' Trap ( Big with Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	248.00
569	TBSP-H.II-66	P' Trap ( Big without Air vent ) 110 mm - UPVC/SWR Pipe fittings	Each	228.00
570	TBSP-H.II-67	Floor Trap ( Bell Mouth ) 110 mm - UPVC/SWR Pipe fittings	Each	236.00
571	TBSP-H.II-68	Bell Mouth Trap 7 " ( 177.8 mm ) - UPVC/SWR Pipe fittings	Each	343.00
572	TBSP-H.II-69	4" ( 101.6 mm ) Nahany Trap ( Without Jali with inlet)UPVC/SWR Pipe fittings	Each	117.00
573	TBSP-H.II-70	3" ( 75 mm nominal size ) Nahany Trap ( without Jali without inlet)UPVC/SWR Pipe fittings	Each	91.00
574	TBSP-H.II-71	4" ( 101.6 mm ) Nahany Trap ( without inlet without Jali)UPVC/SWR Pipe fittings	Each	113.00
575	TBSP-H.II-72	Mini Trap - UPVC/SWR Pipe fittings	Each	56.00
576	TBSP-H.II-73	3" ( 75 mm nominal size ) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	106.00
577	TBSP-H.II-74	4" ( 101.6 mm ) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	150.00
578	TBSP-H.II-75	4" ( 101.6 mm ) multi floor trap without Jalli- UPVC/SWR Pipe fittings	Each	117.00
579	TBSP-H.II-76	Round Jali - UPVC/SWR Pipe fittings	Each	25.00
580	TBSP-H.II-77	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	41.00
581	TBSP-H.II-78	Pipe connector( with LIP ring ) - UPVC/SWR Pipe fittings	Each	157.00
582	TBSP-H.II-79	Pipe connector( without LIP ring ) - UPVC/SWR Pipe fittings	Each	122.00
583	TBSP-H.II-80	4" ( 101.6 mm ) Floor Trap - UPVC/SWR Pipe fittings	Each	144.00
584	TBSP-H.II-81	5" ( 127.mm ) floor Trap - UPVC/SWR Pipe fittings	Each	152.00
585	TBSP-H.II-82	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	60.00
586	TBSP-H.II-83	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	67.00
587	TBSP-H.II-84	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	77.00
588	TBSP-H.II-85	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	56.00
589	TBSP-H.II-86	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	64.00
590	TBSP-H.II-87	110 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	67.00
591	TBSP-H.II-88	75 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	9.00
592	TBSP-H.II-89	90 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	10.00
593	TBSP-H.II-90	110 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	12.00
594	TBSP-H.II-91	75 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	10.00
595	TBSP-H.II-92	90 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	12.00



Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
596	TBSP-H.II-93	110 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	15.00
597	TBSP-H.II-94	LIP ring 110 mm - UPVC/SWR Pipe fittings	Each	72.00
598	TBSP-H.II-95	110mm x 90 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	94.00
599	TBSP-H.II-96	160 mm x 110 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	233.00
III	SUB-SECTION	<b>PVC PLUMBING ACCESSORIES</b>		
600	TBSP-H.III-01	Rubber Lubricant - 100 Grams	Each	31.00
601	TBSP-H.III-02	Rubber Lubricant- 250Grams	Each	68.00
602	TBSP-H.III-03	Rubber Lubricant - 500 Grams	Each	123.00
603	TBSP-H.III-04	Rubber Lubricant - 1000 Grams	Each	228.00
604	TBSP-H.III-05	P' Trap with lip UPVC/SWR Pipe fittings	Each	310.00
605	TBSP-H.III-06	50 ml - Solvent Cement	Each	16.00
606	TBSP-H.III-07	100 ml - Solvent Cement	Each	26.00
607	TBSP-H.III-08	250 ml - Solvent Cement	Each	62.00
608	TBSP-H.III-09	500 ml - Solvent Cement	Each	121.00
609	TBSP-H.III-10	1000 ml - Solvent Cement	Each	236.00
IV	SUB-SECTION	<b>LABOUR CHARGES FOR PVC PLUMBING</b>		
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	76.00
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	34.00
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	57.00
J	SECTION	<b>MISCELLANEOUS ITEMS</b>		
I	SUB-SECTION	<b>MISCELLANEOUS PLUMBING WORK ITEMS</b>		
613	TBSP-J.I-01	Supplying & Fixing solder joints up to 50 mm nominal size dia	Each	64.00
614	TBSP-J.I-02	Supplying & Fixing solution joints up to 50.8 dia 1st quality.	Each	13.00
615	TBSP-J.I-03	Chiselling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	30.00
616	TBSP-J.I-04	Chiselling the stone masonry wall and repairs as directed by the department.	1 Rm	142.00
617	TBSP-J.I-05	Chiselling the brick masonry wall and repairs as directed by the department.	1 Rm	30.00
618	TBSP-J.I-06	Painting the flushing tank with white enamel paint	Each	110.00
619	TBSP-J.I-07	S & F internal cistern fittings for PVC flush tank	Each	852.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
620	TBSP-J.I-08	Repairing and over hauling flushing tank	Each	93.00
621	TBSP-J.I-09	Removing and refixing W.C s	Each	243.00
622	TBSP-J.I-10	Removing and refixing wash hand basins of any size with fittings complete	Each	219.00
623	TBSP-J.I-11	Removing 15 mm nominal size GI pipe and refixing the same	Mr.	67.00
624	TBSP-J.I-12	Removing 20 mm nominal size GI pipe and refixing the same	Mr.	75.00
625	TBSP-J.I-13	Removing 25 mm nominal size GI pipe and refixing the same	Mr.	111.00
626	TBSP-J.I-14	Removing 40 mm nominal size GI pipe and refixing the same	Rm	141.00
627	TBSP-J.I-15	Removing 50 mm nominal size GI pipe and refixing the same	Rm	164.00
628	TBSP-J.I-16	Cleaning the W.C with acid and Vim powder	Each	46.00
629	TBSP-J.I-17	Cleaning the Urinal with acid and Vim power	Each	46.00
630	TBSP-J.I-18	Cleaning the wash basin with acid and Vim powder	Each	46.00
631	TBSP-J.I-19	Cleaning the E.W.C with acid and Vim power	Each	46.00
632	TBSP-J.I-20	Cutting holes in C.C; basement & repairs Labour charges only	Each	107.00
633	TBSP-J.I-21	Cutting holes in stone masonry& basement and repairs Labour charges only	Each	72.00
634	TBSP-J.I-22	Cutting holes in Brick masonry& repairs Labour charges only	Each	47.00
635	TBSP-J.I-23	Cutting holes in RCC slab floor & repairs Labour charges only	Each	72.00
636	TBSP-J.I-24	Supplying & Fixing NP chain rubber and plug for basin	Each	44.00
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	171.00
638	TBSP-J.I-26	S & F 19.04 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	148.00
639	TBSP-J.I-27	S & F 609.6 mm long 127 mm wide plate glass shelf with superior quality aluminium railing complete with aluminium screws	Each	217.00
640	TBSP-J.I-28	S & F 609.6 mm long 127 mm wide plate glass shelf only	Each	72.00
641	TBSP-J.I-29	Supplying & fixing 88.9 mm A.C cowls	Each	74.00
642	TBSP-J.I-30	Supplying & fixing A.C Cowl 63.5 mm dia	Each	50.00
643	TBSP-J.I-31	S & F 76.2 x 101.6 mm teak wood block complete	Each	27.00
644	TBSP-J.I-32	Supplying & Fixing 15 mm nominal size PVC connection with brass union nut C.P coated	Each	106.00
645	TBSP-J.I-33	Removing of 101.6 m or 75 mm nominal size CI pipe	1 RM	38.00
646	TBSP-J.I-34	Supplying & fixing 75 mm nominal size W.I clamps	Each	26.00
647	TBSP-J.I-35	Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457.2 mm	Each	533.00
648	TBSP-J.I-36	Supplying & fixing GI pipe plug of size 15 mm nominal size dia	Each	11.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
649	TBSP-J.I-37	Supplying & fixing 20 mm dia GI plug	Each	15.00
650	TBSP-J.I-38	Supplying and fixing 40 mm nominal size dia of GI plug	Each	75.00
651	TBSP-J.I-39	Supplying & fixing 50 mm nominal size dia of GI PLUG	Each	115.00
652	TBSP-J.I-40	Supplying & fixing 75 mm nominal size dia of GI PLUG	Each	208.00
II	SUB-SECTION	<b>POLYETHYLENE-ALUMINIUM-POLYETHYLENE COMPOSITE PIPES</b>		
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	163.00
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	203.00
655	TBSP-J.II-03	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc: 25mm OD pipe	1 RM	254.00
656	TBSP-J.II-04	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc: 32 mm OD pipe	1 RM	341.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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	448.00
658	TBSP-J.II-06	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 50 mm OD pipe	1 RM	569.00
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 etc16 mm OD pipe	1 RM	236.00
660	TBSP-J.II-08	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc20 mm OD pipe	1 RM	283.00
661	TBSP-J.II-09	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc25mm OD pipe	1 RM	349.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
662	TBSP-J.II-10	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc32 mm OD pipe	1 RM	<b>460.00</b>
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 etc40 mm OD pipe	1 RM	<b>597.00</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 etc50 mm OD pipe	1 RM	<b>754.00</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 etc16 mm OD pipe	1 RM	<b>193.00</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 etc20 mm OD pipe	1 RM	<b>229.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
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 etc25mm OD pipe	1 RM	<b>278.00</b>
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 etc32 mm OD pipe	1 RM	<b>359.00</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 etc40 mm OD pipe	1 RM	<b>459.00</b>
III	SUB-SECTION	<b>OTHER VARIETIES OF PIPES</b>		
670	TBSP-J.III-01	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 13.5	1 RM	<b>147.00</b>
671	TBSP-J.III-02	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 13.5	1 RM	<b>167.00</b>
672	TBSP-J.III-03	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 13.5	1 RM	<b>221.00</b>
673	TBSP-J.III-04	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 13.5	1 RM	<b>301.00</b>
674	TBSP-J.III-05	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 13.5	1 RM	<b>374.00</b>
675	TBSP-J.III-06	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 13.5	1 RM	<b>546.00</b>
676	TBSP-J.III-07	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 11	1 RM	<b>162.00</b>
677	TBSP-J.III-08	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 11	1 RM	<b>197.00</b>
678	TBSP-J.III-09	S&F premium make CPVC Pipes of 28.60mm OD Pipe - SDR 11	1 RM	<b>236.00</b>
679	TBSP-J.III-10	S&F premium make CPVC Pipes of 34.90mm OD Pipe - SDR 11	1 RM	<b>322.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
680	TBSP-J.III-11	S&F premium make CPVC Pipes of 41.30mm OD Pipe - SDR 11	1 RM	398.00
681	TBSP-J.III-12	S&F premium make CPVC Pipes of 54.00mm OD Pipe - SDR 11	1 RM	582.00
682	TBSP-J.III-13	Supply of 20mm x 1.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	50.00
683	TBSP-J.III-14	Supply of 25mm x 2.3mm PN 10/PPR pipe conforming to DIN Standards 8077/8078	1 RM	76.00
684	TBSP-J.III-15	Supply of 32mm x 2.9mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	120.00
685	TBSP-J.III-16	Supply of 40mm x 3.7mm PN 10/PPR pipe conforming to DIN Standards 8077/8079	1 RM	187.00
686	TBSP-J.III-17	Supply of 50mm x 4.6mm PN 10/PPR pipe conforming to DIN Standards 8077/8080	1 RM	334.00
687	TBSP-J.III-18	Supply of 63mm x 5.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8081	1 RM	524.00
688	TBSP-J.III-19	Supply of 75mm x 6.8mm PN 10/PPR pipe conforming to DIN Standards 8077/8082	1 RM	729.00
689	TBSP-J.III-20	Supply of 90mm x 8.2mm PN 10/PPR pipe conforming to DIN Standards 8077/8083	1 RM	1,000.00
690	TBSP-J.III-21	Supply of 110mm x 10mm PN 10/PPR pipe conforming to DIN Standards 8077/8084	1 RM	1,482.00
691	TBSP-J.III-22	Supply of 20mm x 2.8mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	69.00
692	TBSP-J.III-23	Supply of 25mm x 3.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8078	1 RM	106.00
693	TBSP-J.III-24	Supply of 32mm x 4.4mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	170.00
694	TBSP-J.III-25	Supply of 40mm x 5.5mm PN 16/PPR pipe conforming to DIN Standards 8077/8079	1 RM	261.00
695	TBSP-J.III-26	Supply of 50mm x 6.9mm PN 16/PPR pipe conforming to DIN Standards 8077/8080	1 RM	467.00
696	TBSP-J.III-27	Supply of 63mm x 8.6mm PN 16/PPR pipe conforming to DIN Standards 8077/8081	1 RM	734.00
697	TBSP-J.III-28	Supply of 75mm x 10.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8082	1 RM	1,038.00
698	TBSP-J.III-29	Supply of 90mm x 12.3mm PN 16/PPR pipe conforming to DIN Standards 8077/8083	1 RM	1,480.00
699	TBSP-J.III-30	Supply of 110mm x 15.1mm PN 16/PPR pipe conforming to DIN Standards 8077/8084	1 RM	2,216.00
700	TBSP-J.III-31	Supply of 20mm x 3.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	80.00
701	TBSP-J.III-32	Supply of 25mm x 4.2mm PN 20/PPR pipe conforming to DIN Standards 8077/8078	1 RM	123.00
702	TBSP-J.III-33	Supply of 32mm x 5.4mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	198.00
703	TBSP-J.III-34	Supply of 40mm x 6.7mm PN 20/PPR pipe conforming to DIN Standards 8077/8079	1 RM	304.00
704	TBSP-J.III-35	Supply of 50mm x 8.3mm PN 20/PPR pipe conforming to DIN Standards 8077/8080	1 RM	539.00

<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2017-18</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>851.00</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>1,207.00</b>
707	TBSP-J.III-38	Supply of 90mm x 15mm PN 20/PPR pipe conforming to DIN Standards 8077/8083	1 RM	<b>1,640.00</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>2,582.00</b>
709	TBSP-J.III-40	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	Each	<b>12.00</b>
710	TBSP-J.III-41	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	Each	<b>16.00</b>
711	TBSP-J.III-42	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	Each	<b>22.00</b>
712	TBSP-J.III-43	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	Each	<b>38.00</b>
713	TBSP-J.III-44	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	Each	<b>73.00</b>
714	TBSP-J.III-45	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	Each	<b>140.00</b>
715	TBSP-J.III-46	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	Each	<b>212.00</b>
716	TBSP-J.III-47	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	Each	<b>406.00</b>
717	TBSP-J.III-48	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	Each	<b>723.00</b>
718	TBSP-J.III-49	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	<b>44.00</b>
719	TBSP-J.III-50	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	<b>70.00</b>
720	TBSP-J.III-51	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	<b>91.00</b>
721	TBSP-J.III-52	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	<b>144.00</b>
722	TBSP-J.III-53	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	<b>168.00</b>
723	TBSP-J.III-54	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	<b>427.00</b>
724	TBSP-J.III-55	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	<b>552.00</b>
725	TBSP-J.III-56	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	<b>19.00</b>
726	TBSP-J.III-57	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	<b>23.00</b>
727	TBSP-J.III-58	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	<b>45.00</b>
728	TBSP-J.III-59	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	<b>78.00</b>
729	TBSP-J.III-60	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	<b>146.00</b>



<b>Sl. No</b>	<b>ITEM CODE</b>	<b>DESCRIPTION OF THE ITEM</b>	<b>UNIT</b>	<b>SS RATE FOR 2017-18</b>
730	TBSP-J.III-61	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	<b>285.00</b>
731	TBSP-J.III-62	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	<b>460.00</b>
732	TBSP-J.III-63	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	<b>856.00</b>
733	TBSP-J.III-64	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	<b>1,589.00</b>
734	TBSP-J.III-65	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	<b>17.00</b>
735	TBSP-J.III-66	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	<b>30.00</b>
736	TBSP-J.III-67	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	<b>53.00</b>
737	TBSP-J.III-68	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	<b>94.00</b>
738	TBSP-J.III-69	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	<b>167.00</b>
739	TBSP-J.III-70	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	<b>338.00</b>
740	TBSP-J.III-71	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	<b>661.00</b>
741	TBSP-J.III-72	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	<b>958.00</b>
742	TBSP-J.III-73	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	<b>1,659.00</b>
743	TBSP-J.III-74	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	<b>8.00</b>
744	TBSP-J.III-75	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	<b>12.00</b>
745	TBSP-J.III-76	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	<b>22.00</b>
746	TBSP-J.III-77	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	<b>38.00</b>
747	TBSP-J.III-78	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	<b>66.00</b>
748	TBSP-J.III-79	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	<b>140.00</b>
749	TBSP-J.III-80	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	<b>234.00</b>
750	TBSP-J.III-81	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	<b>372.00</b>
751	TBSP-J.III-82	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	<b>736.00</b>
752	TBSP-J.III-83	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>14.00</b>
753	TBSP-J.III-84	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>23.00</b>
754	TBSP-J.III-85	Supply of 32mm x 20mm 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 2017-18</b>
755	TBSP-J.III-86	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>39.00</b>
756	TBSP-J.III-87	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>38.00</b>
757	TBSP-J.III-88	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>37.00</b>
758	TBSP-J.III-89	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>57.00</b>
759	TBSP-J.III-90	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>58.00</b>
760	TBSP-J.III-91	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>59.00</b>
761	TBSP-J.III-92	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>60.00</b>
762	TBSP-J.III-93	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>129.00</b>
763	TBSP-J.III-94	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>129.00</b>
764	TBSP-J.III-95	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>130.00</b>
765	TBSP-J.III-96	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>131.00</b>
766	TBSP-J.III-97	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>132.00</b>
767	TBSP-J.III-98	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>192.00</b>
768	TBSP-J.III-99	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>193.00</b>
769	TBSP-J.III-100	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>244.00</b>
770	TBSP-J.III-101	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>467.00</b>
771	TBSP-J.III-102	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>495.00</b>
772	TBSP-J.III-103	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>623.00</b>
773	TBSP-J.III-104	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>725.00</b>
774	TBSP-J.III-105	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	<b>782.00</b>
775	TBSP-J.III-106	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>37.00</b>
776	TBSP-J.III-107	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>64.00</b>
777	TBSP-J.III-108	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>65.00</b>
778	TBSP-J.III-109	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>105.00</b>
779	TBSP-J.III-110	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	<b>107.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
780	TBSP-J.III-111	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	110.00
781	TBSP-J.III-112	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	152.00
782	TBSP-J.III-113	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	154.00
783	TBSP-J.III-114	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	158.00
784	TBSP-J.III-115	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	159.00
785	TBSP-J.III-116	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	440.00
786	TBSP-J.III-117	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	442.00
787	TBSP-J.III-118	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	448.00
788	TBSP-J.III-119	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	455.00
789	TBSP-J.III-120	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	462.00
790	TBSP-J.III-121	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	621.00
791	TBSP-J.III-122	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	631.00
792	TBSP-J.III-123	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	836.00
793	TBSP-J.III-124	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	888.00
794	TBSP-J.III-125	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1,515.00
795	TBSP-J.III-126	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1,575.00
796	TBSP-J.III-127	Supply of 20mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	117.00
797	TBSP-J.III-128	Supply of 25mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	120.00
798	TBSP-J.III-129	Supply of 25mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	209.00
799	TBSP-J.III-130	Supply of 32mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	213.00
800	TBSP-J.III-131	Supply of 32mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	221.00
801	TBSP-J.III-132	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	340.00
802	TBSP-J.III-133	Supply of 40mm x 1¼" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	503.00
803	TBSP-J.III-134	Supply of 50mm x 1½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	702.00
804	TBSP-J.III-135	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	934.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
805	TBSP-J.III-136	Supply of 75mm x 2½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>1,800.00</b>
806	TBSP-J.III-137	Supply of 20mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>181.00</b>
807	TBSP-J.III-138	Supply of 25mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>187.00</b>
808	TBSP-J.III-139	Supply of 25mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>272.00</b>
809	TBSP-J.III-140	Supply of 32mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>285.00</b>
810	TBSP-J.III-141	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>529.00</b>
811	TBSP-J.III-142	Supply of 40mm x 1¼" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>620.00</b>
812	TBSP-J.III-143	Supply of 50mm x 1½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>866.00</b>
813	TBSP-J.III-144	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>1,332.00</b>
814	TBSP-J.III-145	Supply of 75mm x 2½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	<b>2,131.00</b>
815	TBSP-J.III-146	Supply of 20mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>125.00</b>
816	TBSP-J.III-147	Supply of 25mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>130.00</b>
817	TBSP-J.III-148	Supply of 25mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>201.00</b>
818	TBSP-J.III-149	Supply of 32mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>193.00</b>
819	TBSP-J.III-150	Supply of 32mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>225.00</b>
820	TBSP-J.III-151	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>376.00</b>
821	TBSP-J.III-152	Supply of 20mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>187.00</b>
822	TBSP-J.III-153	Supply of 25mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>205.00</b>
823	TBSP-J.III-154	Supply of 25mm x ¾" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>271.00</b>
824	TBSP-J.III-155	Supply of 32mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>261.00</b>
825	TBSP-J.III-156	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	<b>562.00</b>
826	TBSP-J.III-157	Supply of 20mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>121.00</b>
827	TBSP-J.III-158	Supply of 25mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>132.00</b>
828	TBSP-J.III-159	Supply of 25mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>221.00</b>
829	TBSP-J.III-160	Supply of 32mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	<b>232.00</b>

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
830	TBSP-J.III-161	Supply of 32mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	261.00
831	TBSP-J.III-162	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	366.00
832	TBSP-J.III-163	Supply of 20mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	188.00
833	TBSP-J.III-164	Supply of 25mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	201.00
834	TBSP-J.III-165	Supply of 25mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	288.00
835	TBSP-J.III-166	Supply of 32mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	294.00
836	TBSP-J.III-167	Supply of 32mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	311.00
837	TBSP-J.III-168	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	574.00
838	TBSP-J.III-169	Supply of 20mm x ½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	484.00
839	TBSP-J.III-170	Supply of 25mm x ¾" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	725.00
840	TBSP-J.III-171	Supply of 32mm x 1" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	968.00
841	TBSP-J.III-172	Supply of 40mm x 1¼" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1,356.00
842	TBSP-J.III-173	Supply of 50mm x 1½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	2,180.00
843	TBSP-J.III-174	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	3,462.00
844	TBSP-J.III-175	Supply of 20mm x ½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	555.00
845	TBSP-J.III-176	Supply of 25mm x ¾" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	738.00
846	TBSP-J.III-177	Supply of 32mm x 1" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	968.00
847	TBSP-J.III-178	Supply of 40mm x 1¼" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	1,210.00
848	TBSP-J.III-179	Supply of 50mm x 1½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	2,300.00
849	TBSP-J.III-180	Supply of 63mm x 2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	3,875.00
850	TBSP-J.III-181	Supply of 20mm PPR Union conforming to DIN Standards 8077/8092	Each	106.00
851	TBSP-J.III-182	Supply of 25mm PPR Union conforming to DIN Standards 8077/8092	Each	124.00
852	TBSP-J.III-183	Supply of 32mm PPR Union conforming to DIN Standards 8077/8092	Each	204.00
853	TBSP-J.III-184	Supply of 20mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	194.00
854	TBSP-J.III-185	Supply of 25mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	255.00

Sl. No	ITEM CODE	DESCRIPTION OF THE ITEM	UNIT	SS RATE FOR 2017-18
855	TBSP-J.III-186	Supply of 32mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	267.00
856	TBSP-J.III-187	Supply of 40mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	547.00
857	TBSP-J.III-188	Supply of 50mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	637.00
858	TBSP-J.III-189	Supply of 63mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1,030.00
859	TBSP-J.III-190	Supply of 75mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1,696.00
860	TBSP-J.III-191	Supply of 90mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	2,422.00
861	TBSP-J.III-192	Supply of 20mm PPR Clamp conforming to DIN Standards 8077/8092	Each	12.00
862	TBSP-J.III-193	Supply of 25mm PPR Clamp conforming to DIN Standards 8077/8092	Each	15.00
863	TBSP-J.III-194	Supply of 32mm PPR Clamp conforming to DIN Standards 8077/8092	Each	17.00
864	TBSP-J.III-195	Supply of 40mm PPR Clamp conforming to DIN Standards 8077/8092	Each	19.00
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.			
4	LABOUR charges are increased based on proposals and market rates			
5	Coloured porcelain items: 50% extra may be allowed on basic cost of white porcelain items excluding fittings			
6	SSR Rates for Sanitary & water supply items are purely for guidance for the officers for 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			

Sl. No	SECTION	NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER
<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/ Jayaswal Neco
II	SUB-SECTION	SUPPLYING & LAYING OF C.I. FITTINGS - BIC/ NECO/ Jayaswal 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/ Jayaswal Neco
II	SUB-SECTION	SUPPLY OF C.I. SPUN FITTINGS - BIC/ NECO/ Jayaswal Neco
<b>E</b>	<b>SECTION</b>	<b>VITREOUS CHINAWARE - SANITARY APPLIANCES</b>
I	SUB-SECTION	INDIAN WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
II	SUB-SECTION	FLOOR MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
III	SUB-SECTION	WALL MOUNTED EWC - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
IV	SUB-SECTION	CISTERNS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
V	SUB-SECTION	PLASTIC SEATS FOR WATER CLOSETS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
VI	SUB-SECTION	WASH HAND BASINS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
VII	SUB-SECTION	URINALS - Hindustan Sanitary ware/ Parryware/ Neycer/ CERA /Jaquar / Somany
<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, Karla / Essco / Somany
II	SUB-SECTION	TAPS&FAUCETS - PILLAR TAPS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
III	SUB-SECTION	TAPS&FAUCETS - OTHER TAPS & SPOUTS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
IV	SUB-SECTION	STOP & ANGLE VALVES - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
V	SUB-SECTION	COMBINATION FAUCETS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
VI	SUB-SECTION	SHOWERS & FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
VII	SUB-SECTION	MISCELLANEOUS CP FITTINGS - Seiko/ Senior/ Nice/ Senior/ Nice/ CERA/ Hindware - PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson, Karla / Essco / Somany
<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
<b>H</b>	<b>SECTION</b>	<b>PVC PIPES &amp; FITTINGS</b>
I	SUB-SECTION	PVC PIPES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad
II	SUB-SECTION	PVC FITTINGS- Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad
III	SUB-SECTION	PVC PLUMBING ACCESSORIES - Prince/Sudhakar/Kisan/Supreme/ Astral/ Finolex/ Ajay/ Ashirvad

<b>Sl. No</b>	<b>SECTION</b>	<b>NAMES OF THE APPROVED BRAND/ MANUFACTURER/ SUPPLIER</b>
		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/ Uniflex
II	SUB-SECTION	CPVC PIPES - Supreme/ Ashirvad/ Astral/ Prince / Kisan / Ajay
III	SUB-SECTION	PPR PIPES - Supreme/ Ashirvad/ Astral/ Prince/ Kisan / SFMC / KPT



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- 10.2 ADDRESSABLE - FIRE ALARAM SYSTEM
- 10.3 CONVENTIONAL - FIRE ALARAM SYSTEM
- 10.4 POWDER BASED FIRE EXTINGUISHERS
- 10.5 CLEAN AGENT FIRE EXTINGUISHERS

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OLD MATERIAL RATES

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**SECTION - 1****1.1 M.S. CONDUIT PIPES**

1	ELEC-1.1.1	Supply of ISI, 20mm dia, 16 guage thickness MS conduit pipe. Makes : NAI / Bharath / GB / AKG.	1 Mtr	99.00
2	ELEC-1.1.2	Supply of ISI, 25mm dia, 16 guage thickness MS conduit pipe. Makes : NAI / Bharath / GB / AKG.	1 Mtr	127.00
3	ELEC-1.1.3	Supply of ISI, 32mm dia, 16 guage thickness MS conduit pipe. Makes : NAI / Bharath / GB / AKG.	1 Mtr	179.00
4	ELEC-1.1.4	Supply of ISI, 38mm dia, 16 guage thickness MS conduit pipe. Makes : NAI / Bharath / GB / AKG.	1 Mtr	308.00
5	ELEC-1.1.5	Supply of ISI, 50mm dia,16 guage thickness MS conduit pipe. Makes : NAI / Bharath / GB / AKG.	1 Mtr	386.00
6	ELEC-1.1.6	Supply of 19 / 20 mm MS Junction box normal range big size long neck.	1 No	27.00
7	ELEC-1.1.7	Supply of 25 mm MS Junction box normal range big size long neck.	1 No	29.00
8	ELEC-1.1.8	Supply of 32 mm MS Junction box normal range big size long neck.	1 No	80.00
9	ELEC-1.1.9	Supply of 40 / 38 mm MS Junction box normal range big size long neck.	1 No	114.00
10	ELEC-1.1.10	Supply of 50 mm MS Junction box normal range big size long neck.	1 No	222.00
11	ELEC-1.1.11	Supply of 25/20mm.MS Junction deep box.	1 No	71.00
12	ELEC-1.1.12	Supply of 32mm.MS Junction deep box.	1 No	124.00
13	ELEC-1.1.13	Supply of 40mm.MS Junction deep box.	1 No	153.00
14	ELEC-1.1.14	Supply of 19/20mm MS Inspection Bends.	1 No	24.00
15	ELEC-1.1.15	Supply of 25mm MS Inspection Bends.	1 No	26.00
16	ELEC-1.1.16	Supply of 32mm MS Inspection Bends.	1 No	58.00
17	ELEC-1.1.17	Supply of 40/38mm MS Inspection Bends.	1 No	90.00
18	ELEC-1.1.18	Supply of 50mm MS Inspection Bends.	1 No	190.00
19	ELEC-1.1.19	Supply of 19/20mm MS Inspection Tee.	1 No	26.00
20	ELEC-1.1.20	Supply of 25mm MS Inspection Tee.	1 No	28.00
21	ELEC-1.1.21	Supply of 32mm MS Inspection Tee.	1 No	79.00
22	ELEC-1.1.22	Supply of 40/38mm MS Inspection Tee.	1 No	95.00
23	ELEC-1.1.23	Supply of 50mm MS Inspection Tee.	1 No	195.00
24	ELEC-1.1.24	Supply of 19/20mm MS Inspection Elbow.	1 No	21.00
25	ELEC-1.1.25	Supply of 25mm MS Inspection Elbow.	1 No	22.00
26	ELEC-1.1.26	Supply of 32mm MS Inspection Elbow.	1 No	61.00
27	ELEC-1.1.27	Supply of 40/38mm MS Inspection Elbow.	1 No	79.00
28	ELEC-1.1.28	Supply of 50mm MS Inspection Elbow.	1 No	176.00
29	ELEC-1.1.29	Supply of MS Inspection 10 Guage G.I. checknut size 19/20mm.	100 Nos	218.00
30	ELEC-1.1.30	Supply of MS Inspection 10 Guage G.I. checknut size 25mm.	100 Nos	277.00
31	ELEC-1.1.31	Supply of MS Inspection 10 Guage G.I. checknut size 32mm.	100 Nos	562.00
32	ELEC-1.1.32	Supply of MS Inspection 10 Guage G.I. checknut size 40/38mm.	100 Nos	844.00
33	ELEC-1.1.33	Supply of MS Inspection 10 Guage G.I. checknut size 50mm.	100 Nos	1334.00

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1	2	3	4	7
34	ELEC-1.1.34	Supply of 19/20mm Saddles with Base.	100 Nos	211.00
35	ELEC-1.1.35	Supply of 25mm Saddles with Base.	100 Nos	220.00
36	ELEC-1.1.36	Supply of 32mm Saddles with Base.	100 Nos	410.00
37	ELEC-1.1.37	Supply of 40/38mm Saddles with Base.	100 Nos	705.00
38	ELEC-1.1.38	Supply of 50mm Saddles with Base.	100 Nos	893.00
39	ELEC-1.1.39	Supply of 19/20mm 20 guage Saddles.	100 Nos	116.00
40	ELEC-1.1.40	Supply of 25mm 20 guage Saddles.	100 Nos	149.00
41	ELEC-1.1.41	Supply of 32mm 20 guage Saddles.	100 Nos	244.00
42	ELEC-1.1.42	Supply of 40/38mm 20 guage Saddles.	100 Nos	326.00
43	ELEC-1.1.43	Supply of 50mm 20 guage Saddles.	100 Nos	420.00
44	ELEC-1.1.44	Supply of 19/20mm 16 Guage socket coupler.	12 Nos	60.00
45	ELEC-1.1.45	Supply of 25mm 16 Guage socket coupler.	12 Nos	72.00
46	ELEC-1.1.46	Supply of 32mm 16 Guage socket coupler.	12 Nos	165.00
47	ELEC-1.1.47	Supply of 38mm 16 Guage socket coupler.	12 Nos	300.00
48	ELEC-1.1.48	Supply of 40mm 16 Guage socket coupler.	12 Nos	172.00
49	ELEC-1.1.49	Supply of 50mm 16 Guage socket coupler.	12 Nos	489.00
50	ELEC-1.1.50	Supply of 19mm Ball Socket.	12 Nos	254.00
51	ELEC-1.1.51	Supply of 25mm Ball Socket.	12 Nos	379.00
	<b>1.2</b>	<b>PVC CONDUIT PIPES</b>		
52	ELEC-1.2.1	Supply of ISI 20mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	19.10
53	ELEC-1.2.2	Supply of ISI 20mm outer dia heavy grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	24.20
54	ELEC-1.2.3	Supply of ISI 25mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	25.40
55	ELEC-1.2.4	Supply of ISI 25mm outer dia heavy grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	31.80
56	ELEC-1.2.5	Supply of ISI 32mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	42.50
57	ELEC-1.2.6	Supply of ISI 40mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	58.40
58	ELEC-1.2.7	Supply of ISI 50mm outer dia medium grade, FRLS with IS:9537 part 3 regid PVC pipe. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 Mtr	81.40
59	ELEC-1.2.8	Supply of FRLS Non - ISI 19mm 1.80mm thick regid PVC pipe. Makes : Million Plast / Sudhakar / Durga / Nandi / Sunlight / Besto Plast.	1 Mtr	18.50
60	ELEC-1.2.9	Supply of FRLS Non - ISI 25mm 1.80mm thick regid PVC pipe. Makes : Million Plast / Sudhakar / Durga / Nandi / Sunlight / Besto Plast.	1 Mtr	24.30

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1	2	3	4	7
61	ELEC-1.2.10	Supply of 19/20mm width and 12.5mm height Casing and Caping. Makes : Modi with ISI	1 Mtr	25.40
62	ELEC-1.2.11	Supply of 25mm width and 12.5mm height Casing and Caping. Makes : Modi with ISI	1 Mtr	31.80
63	ELEC-1.2.12	Supply of 32mm width and 12.5mm height Casing and Caping. Makes : Modi with ISI	1 Mtr	36.90
64	ELEC-1.2.13	Supply of 38/40mm width and 12.5mm height Casing and Caping. Makes : Modi with ISI	1 Mtr	63.50
65	ELEC-1.2.14	Supply of Non-ISI 19/20mm width and 12.5mm height Casing and Caping. Makes : Diamond / Durga make.	1 Mtr	17.30
66	ELEC-1.2.15	Supply of Non-ISI 25mm width and 12.5mm height Casing and Caping. Makes : Diamond / Durga make.	1 Mtr	18.50
67	ELEC-1.2.16	Supply of 20mm PVC Flexible Pipe. Make: Precision	1 Mtr	3.70
68	ELEC-1.2.17	Supply of 25mm PVC Flexible Pipe. Make: Precision	1 Mtr	4.90
69	ELEC-1.2.18	Supply of 32mm PVC Flexible Pipe. Make: Precision	1 Mtr	6.10
70	ELEC-1.2.19	Supply of 40mm PVC Flexible Pipe. Make: Precision	1 Mtr	12.20
71	ELEC-1.2.20	Supply of 50mm PVC Flexible Pipe. Make: Precision	1 Mtr	19.40
72	ELEC-1.2.21	Supply of 19/20mm PVC Flexible Couplings.	1 No	11.00
73	ELEC-1.2.22	Supply of 25mm PVC Flexible Couplings.	1 No	14.00
74	ELEC-1.2.23	Supply of 32mm PVC Flexible Couplings.	1 No	28.00
75	ELEC-1.2.24	Supply of 40/38mm PVC Flexible Couplings.	1 No	30.00
76	ELEC-1.2.25	Supply of 50mm PVC Flexible Couplings.	1 No	61.00
77	ELEC-1.2.26	Supply of 19/20mm PVC Junction Boxes Normal.	1 No	17.00
78	ELEC-1.2.27	Supply of 25mm PVC Junction Boxes Normal.	1 No	19.00
79	ELEC-1.2.28	Supply of 32mm PVC Junction Boxes Normal.	1 No	34.00
80	ELEC-1.2.29	Supply of 40mm PVC Junction Boxes Normal.	1 No	37.00
81	ELEC-1.2.30	Supply of 50mm PVC Junction Boxes Normal.	1 No	51.00
82	ELEC-1.2.31	Supply of PVC Junction Boxes Deep size 19/20mm.	1 No	22.00
83	ELEC-1.2.32	Supply of PVC Junction Boxes Deep size 25mm.	1 No	25.00
84	ELEC-1.2.33	Supply of PVC Junction Boxes Deep size 32mm.	1 No	40.00
85	ELEC-1.2.34	Supply of PVC Junction Boxes Deep size 40/38mm.	1 No	43.00
86	ELEC-1.2.35	Supply of PVC Junction Boxes Deep size 50mm.	1 No	64.00
87	ELEC-1.2.36	Supply of 19/20mm dia 1.5mm thick PVC Bends. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 No	4.00
88	ELEC-1.2.37	Supply of 25mm dia 1.5mm thick PVC Bends. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 No	6.00
89	ELEC-1.2.38	Supply of 32mm dia 2.0mm thick PVC Bends. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 No	16.00
90	ELEC-1.2.39	Supply of 40mm dia 2.0mm thick PVC Bends. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 No	19.00
91	ELEC-1.2.40	Supply of 50mm dia 2.0mm thick PVC Bends.		



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1	2	3	4	7
		Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / Million Plast / Precision	1 No	28.00
92	ELEC-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	ELEC-1.3.1	Supply of 1 or 2 Module box	1 No	57.00
94	ELEC-1.3.2	Supply of 3 Module box	1 No	80.00
95	ELEC-1.3.3	Supply of 4 Module box	1 No	96.00
96	ELEC-1.3.4	Supply of 6 Module box	1 No	130.00
97	ELEC-1.3.5	Supply of 8 or 9 Module box Horizontal/Vertical.	1 No	170.00
98	ELEC-1.3.6	Supply of 12 Module box	1 No	209.00
		<b>METALLIC BOXES (MS)</b>		
99	ELEC-1.3.7	Supply of 4" x 4" Metal Box	1 No	53.00
100	ELEC-1.3.8	Supply of 4" x 7" Metal Box	1 No	63.00
101	ELEC-1.3.9	Supply of 6" x 6" Metal Box	1 No	79.00
102	ELEC-1.3.10	Supply of 6" x 8" Metal Box	1 No	105.00
103	ELEC-1.3.11	Supply of 10" x 8" Metal Box	1 No	184.00
104	ELEC-1.3.12	Supply of 10" x 12" Metal Box	1 No	236.00
	<b>1.4</b>	<b>T.W. BOARDS</b>		
105	ELEC-1.4.1	Supply of T.W.Deep Box of Size 4" x 4"	1 No	10.00
106	ELEC-1.4.2	Supply of T.W.Deep Box of Size 4" x 7"	1 No	18.00
107	ELEC-1.4.3	Supply of T.W.Deep Box of Size 6" x 6"	1 No	22.00
108	ELEC-1.4.4	Supply of T.W.Deep Box of Size 6" x 8"	1 No	30.00
109	ELEC-1.4.5	Supply of T.W.Deep Box of Size 8" x 10"	1 No	48.00
110	ELEC-1.4.6	Supply of T.W.Deep Box of Size 10" x 12"	1 No	73.00
111	ELEC-1.4.7	Supply of T.W.Deep Box of Size 12" x 15"	1 No	109.00
112	ELEC-1.4.8	Supply of Decolam Board of Size 4" x 4"	1 No	14.00
113	ELEC-1.4.9	Supply of Decolam Board of Size 4" x 7"	1 No	25.00
114	ELEC-1.4.10	Supply of Decolam Board of Size 6" x 6"	1 No	33.00
115	ELEC-1.4.11	Supply of Decolam Board of Size 6" x 8"	1 No	44.00
116	ELEC-1.4.12	Supply of Decolam Board of Size 8" x 10"	1 No	73.00
117	ELEC-1.4.13	Supply of Decolam Board of Size 10" x 12"	1 No	109.00
118	ELEC-1.4.14	Supply of Decolam Board of Size 12" x 15"	1 No	164.00
119	ELEC-1.4.15	Supply of Peeta Board of Size 9" x 14"	1 No	53.00
120	ELEC-1.4.16	Supply of Peeta Board of Size 12" x 10"	1 No	51.00
121	ELEC-1.4.17	Supply of Peeta Board of Size 15" x 20"	1 No	182.00
122	ELEC-1.4.18	Supply of Peeta Board of Size 18" x 24"	1 No	262.00
123	ELEC-1.4.19	Supply of Peeta Board of Size 18" x 30"	1 No	327.00
124	ELEC-1.4.20	Supply of No.8 Screws of 12mm.	100 Nos	59.00
125	ELEC-1.4.21	Supply of No.8 Screws of 25mm.	100 Nos	72.00
126	ELEC-1.4.22	Supply of No.8 Screws of 30mm.	100 Nos	89.00
127	ELEC-1.4.23	Supply of No.8 Screws of 35/38mm.	100 Nos	96.00
128	ELEC-1.4.24	Supply of No.8 Screws of 50mm.	100 Nos	108.00
129	ELEC-1.4.25	Supply of No.8 Screws of 63/75mm.	100 Nos	131.00
	<b>1.5</b>	<b>COPPER FLEXIBLE CABLES (AS PER IS:694)</b>		
130	ELEC-1.5.1	Supply of 14/0.3mm (1.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable.		
		Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&T / V-Guard.	100 Mtrs	1073.00
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.	100 Mtrs	943.00
		Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo	100 Mtrs	813.00

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131	ELEC-1.5.2	Supply of 22/0.3mm (1.5 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable. <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	1587.00
		<b>Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.</b>	100 Mtrs	1386.00
		<b>Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo</b>	100 Mtrs	1173.00
132	ELEC-1.5.3	Supply of 36/0.3mm (2.5 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable. <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	2561.00
		<b>Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.</b>	100 Mtrs	2239.00
		<b>Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo</b>	100 Mtrs	1894.00
133	ELEC-1.5.4	Supply of 56/0.3mm (4.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable. <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	3910.00
		<b>Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.</b>	100 Mtrs	3428.00
		<b>Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo</b>	100 Mtrs	2839.00
134	ELEC-1.5.5	Supply of 84/0.3mm (6.0 Sqmm) FRLS / HFFR PVC insulated 1100V grade as per IS:694/1990 specification for Copper cable. <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	5945.00
		<b>Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.</b>	100 Mtrs	5355.00
		<b>Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo</b>	100 Mtrs	4392.00
135	ELEC-1.5.6	Supply of 140/0.3mm (10.0 Sqmm) PVC FRLS / HFFR insulated flexible Copper cable. <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	9211.00
		<b>Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.</b>	100 Mtrs	8140.00
		<b>Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo</b>	100 Mtrs	6962.00
136	ELEC-1.5.7	Supply of 126/0.4mm (16.0 Sqmm) PVC FRLS / HFFR insulated flexible Copper cable <b>Makes : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&amp;T / V-Guard.</b>	100 Mtrs	14566.00

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1	2	3	4	7
		Makes : Polycab / HPL / RPG / Kundancab / Nakoda / Anchor / GM / Million / Gold Medal / Power Flex / Fine Cab / Sun Cab / Fortune Art / Bonton / Gloster / Gemini / Uniflex / Great White / Sudhakar.	100 Mtrs	13495.00
		Makes : Nandicab / Benlo / Khanthi / Vimal / Stanjo	100 Mtrs	10710.00
137	1.5.8	<b>SHEATHED FLEXIBLE COPPER CABLES</b> Supply of ..... PVC Insulated and FRLS Round Sheathed Multi Core Bright Annealed Bare Copper Conductor Heavy Duty Industrial Cables for Voltage Grade upto 1100 Volts as per IS: 694:1990 including all transportation charges etc complete.		
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI / Nakoda / Sun cab / Sudhakar / Powerflex		
	a	25 Sqmm Single Core	1 RM	187.00
	b	35 Sqmm Single Core	1 RM	264.00
	c	50 Sqmm Single Core	1 RM	374.00
	d	70 Sqmm Single Core	1 RM	517.00
	e	1.5 Sqmm (22/0.3mm)2 core	1 RM	47.00
	f	2.5 Sqmm (36/0.3mm) 2 Core	1 RM	74.00
	g	4.0 Sqmm (56/0.3) 2 Core	1 RM	99.00
	h	6.0 Sqmm (84/0.3) 2 Core	1 RM	154.00
	i	4.0 Sqmm (56/0.3) 2 Core	1 RM	110.00
	j	6.0 Sqmm (84/0.3) 2Core	1 RM	171.00
	k	10.0 Sqmm (80/0.4) 2 Core	1 RM	220.00
	l	16.0 Sqmm(126/0.4) 2 Core	1 RM	275.00
	m	1.5 Sqmm (22/0.3mm) 3 core	1 RM	63.00
	n	2.5 Sqmm (36/0.3mm)3 Core	1 RM	107.00
	o	4.0 Sqmm (56/0.3) 3 Core	1 RM	141.00
	p	6.0 Sqmm (84/0.3) 3 Core	1 RM	187.00
	q	10.0 Sqmm (80/0.4) 3 Core	1 RM	241.00
	r	16.0 Sqmm(126/0.4) 3 Core	1 RM	381.00
	s	1.5 Sqmm (22/0.3mm)4 Core	1 RM	82.00
	t	2.5 Sqmm (36/0.3mm) 4 Core	1 RM	124.00
	u	4.0 Sqmm (56/0.3) 4 Core	1 RM	187.00
	v	6.0 Sqmm (84/0.3) 4 Core	1 RM	297.00
	w	10.0 Sqmm (80/0.4) 4 Core	1 RM	440.00
	x	16.0 Sqmm(126/0.4) 4 Core	1 RM	572.00
	y	25.0 Sqmm(196/0.4) 4 Core	1 RM	935.00
	z	35.0 Sqmm(276.04) 4 Core	1 RM	1402.00
	aa	50.0 Sqmm(396/0.4) 4 Core	1 RM	1857.00
	ab	70.0 Sqmm(354/0.5) 4 Core	1 RM	2618.00
138	1.5.9	Supply of ..... PVC Insulated, Flexible Armouring Flexible Copper cable -----,, Cores including all transportation charges etc complete.		
		Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI / Nakoda.		
	a	4.0 Sqmm (56/0.3) 2 Core	1 RM	134.00
	b	6.0 Sqmm (84/0.3) 2 Core	1 RM	187.00
	c	10.0 Sqmm (80/0.4) 2 Core	1 RM	264.00
	d	16.0 Sqmm(126/0.4) 2 Core	1 RM	366.00
	e	4.0 Sqmm (56/0.3) 3 Core	1 RM	156.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	f	6.0 Sqmm (84/0.3) 3 Core	1 RM	223.00
	g	10.0 Sqmm (80/0.4) 3 Core	1 RM	275.00
	h	16.0 Sqmm(126/0.4) 3 Core	1 RM	390.00
	i	2.5 Sqmm (50/0.25) 4 Core	1 RM	154.00
	j	4.0 Sqmm (56/0.3) 4 Core	1 RM	227.00
	k	6.0 Sqmm (84/0.3) 4 Core	1 RM	322.00
	l	10.0 Sqmm (80/0.4) 4 Core	1 RM	495.00
	m	16.0 Sqmm(126/0.4) 4 Core	1 RM	838.00
	n	25.0 Sqmm(196/0.4) 4 Core	1 RM	1294.00
	o	35.0 Sqmm(276.04) 4 Core	1 RM	1773.00
	p	50.0 Sqmm(396/0.4) 4 Core	1 RM	2517.00
	q	70.0 Sqmm(354/0.5) 4 Core	1 RM	3871.00
	<b>1.6</b>	<b>SERVICE MAINS AND FLAT CABLE OF ISI FOR SUBMERSIBLE MOTORS.</b>		
139	ELEC-1.6.1	Supply of 2.5 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab	100 Mtrs	737.00
140	ELEC-1.6.2	Supply of 6 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab	100 Mtrs	1497.00
141	ELEC-1.6.3	Supply of 10 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab	100 Mtrs	1611.00
142	ELEC-1.6.4	Supply of 16 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab	100 Mtrs	2693.00
143	ELEC-1.6.5	Supply of 6 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab / Stanjo	100 Mtrs	3017.00
144	ELEC-1.6.6	Supply of 10 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab / Stanjo	100 Mtrs	3629.00
145	ELEC-1.6.7	Supply of 16 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab / Stanjo	100 Mtrs	6804.00
146	ELEC-1.6.8	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire. Makes : Finolex / RR Kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Nakoda / Payal / Finecab / Gemini / Vimal / Suncab	100 Mtrs	1040.00
147	ELEC-1.6.9	Supply of 3 Core 1.5 Sqmm Flat Copper cable of ISI for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda / KEI / L&T	100 Mtrs	6289.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal / Suncab.	100 Mtrs	5973.00
148	ELEC-1.6.10	Supply of 3 Core 2.5 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda / KEI / L&T.	100 Mtrs	9656.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal / Suncab.	100 Mtrs	9174.00
149	ELEC-1.6.11	Supply of 3 Core 4.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda / KEI / L&T.	100 Mtrs	14484.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal / Suncab.	100 Mtrs	13761.00
150	ELEC-1.6.12	Supply of 3 Core 6.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda / KEI / L&T.	100 Mtrs	21345.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal / Suncab.	100 Mtrs	20273.00
151	ELEC-1.6.13	Supply of 3 Core 10.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda / KEI / L&T.	100 Mtrs	34686.00
		Makes : Polycab / GM / Million / V-Guard / Gold Medal / Kundancab / HPL / RPG / Nandicab / Payal / Finecab / Gemini / Vimal / Suncab.	100 Mtrs	32956.00
	<b>1.7</b>	<b>FLUSH TYPE SWITCHES AND ACCESSORIES</b>		
152	ELEC-1.7.1	Supply of 6A 1 Way flush type Switch. Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	18.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	15.00
153	ELEC-1.7.2	Supply of 6A 2 Way flush type Switch. Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	19.00
154	ELEC-1.7.3	Supply of 6A 2 pin flush type Socket.		

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1	2	3	4	7
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	20.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	15.00
155	ELEC-1.7.4	Supply of 6A 3/2 pin flush type Socket with shutter.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	27.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	20.00
156	ELEC-1.7.5	Supply of 6A flush type Neon Indicator.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	20.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	18.00
157	ELEC-1.7.6	Supply of 6A Triangle Plug Top .		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	35.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	28.00
158	ELEC-1.7.7	Supply of 6A 1 Way flush type Bed Swich / Bell Push.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	18.00
159	ELEC-1.7.8	Supply of 16A flush type Switch.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	65.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	55.00
160	ELEC-1.7.9	Supply of 16A flush type Socket with shutter.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	65.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	55.00
161	ELEC-1.7.10	Supply of 16A flush type Switch Socket combined (2 in one).		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	102.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	85.00
162	ELEC-1.7.11	Supply of 16A Triangle Plug Top.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	50.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	44.00
163	ELEC-1.7.12	Supply of stepped type Electronic Regulator.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	220.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	180.00
164	ELEC-1.7.13	Supply of 3 Plate Jumbo Ceiling Rose.		
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1 No	21.00
		Makes : Vimal / Maru Mantero / Starex Smile / CPL.	1 No	16.00
165	ELEC-1.7.14	Supply of BH / SBH.		
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1 No	20.00
166	ELEC-1.7.15	Supply of Pendent Holder / Adopter.		
		Makes : Anchor / Gold Medal Olive / Million Zoom.	1 No	17.00
167	ELEC-1.7.16	Supply of Telephone Jack with Connector		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	48.00
168	ELEC-1.7.17	Supply of TV Antenna Outlet.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	26.00
169	ELEC-1.7.18	Supply of 15A/10A Flush type Fuse.		
		Makes : GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega / HPL	1 No	32.00

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1	2	3	4	7
170	ELEC-1.7.19	Supply of 32A DP Flush type Makes : GM / Million / Gold Medal / Maru Mantero / Anchor Penta Cherry / Great white. Makes : GM / Gold Medal / Anchor / Great White/ Milltec / Vimal / Maru / Star.	1 No	106.00
			1 No	85.00
171	ELEC-1.7.20	Supply of Calling Bell Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	50.00
172	ELEC-1.7.21	Supply of Buzzer. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	45.00
173	ELEC-1.7.22	Supply of Ding Dong Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	102.00
174	ELEC-1.7.23	Supply of Electronic Musical Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	240.00
175	ELEC-1.7.24	Supply of Remote Bell. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	450.00
176	ELEC-1.7.25	Supply of MC Holder. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	21.00
177	ELEC-1.7.26	Supply of Spike Guard with 1 No Switch and 4 Nos Sockets. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	310.00
178	ELEC-1.7.27	Supply of Spike Guard with 4 No Switches and 4 Nos Sockets. Makes : GM / Million / Gold Medal / Anchor / Great white.	1 No	410.00
	<b>1.8</b>	<b>MINI MODULAR SWITCHES AND ACCESSORIES</b>		
179	ELEC-1.8.1	Supply of 6A 1 Way Mini Modular Switch with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	23.00
180	ELEC-1.8.2	Supply of 6A 2 Way Mini Modular Switch with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	26.00
181	ELEC-1.8.3	Supply of 6A 2 Pin Mini Modular Socket with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	24.00
182	ELEC-1.8.4	Supply of 6A 3/2 Pin Mini Modular Socket with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	35.00
183	ELEC-1.8.5	Supply of 6A Mini Modular Neon Indicator with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	28.00
184	ELEC-1.8.6	Supply of 6A Mini Modular Bed Switch / Bell Push with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	26.00



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1	2	3	4	7
185	ELEC-1.8.7	Supply of 6A 1 Way Mini Modular Switch with Neon Indicator with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	28.00
186	ELEC-1.8.8	Supply of 6A Mini Modular Bell Push with Neon Indicator with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	39.00
187	ELEC-1.8.9	Supply of 16A Mini Modular Switch with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	80.00
188	ELEC-1.8.10	Supply of 16A (2 in one) Mini Modular Switch & Socket combined with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	110.00
189	ELEC-1.8.11	Supply of 16A Triangle Top with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	49.00
190	ELEC-1.8.12	Supply of Mini Modular Stepped type Electronic Regulator with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	240.00
191	ELEC-1.8.13	Supply of Mini Modular Telephone Jack with Connector with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	54.00
192	ELEC-1.8.14	Supply of Mini Modular TV Antenna Outlet with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	35.00
193	ELEC-1.8.15	Supply of 16A/10A Mini Modular Flush Fuse with Cover Frame. Makes : GM / Anchor / Million / Vimal / Gold Medal / Maru / CPL / Great White / Uniflex.	1 No	40.00
	<b>1.9</b>	<b>MODULAR SWITCHES AND ACCESSORIES</b>		
194	ELEC-1.9.1	Supply of 6A / 10A 1 Way 1 Module Modular Switch Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	92.00
			1 No	63.00
195	ELEC-1.9.2	Supply of 6A / 10A 2 Way 1 Module Modular Switch. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	101.00
			1 No	75.00
196	ELEC-1.9.3	Supply of 6A / 10A 2 Pin 2 Module Modular Socket. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	93.00



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1	2	3	4	7
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	64.00
197	ELEC-1.9.4	Supply of 6A / 10A 3/2 Pin 2 Module Modular Socket with shutter. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	141.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	93.00
198	ELEC-1.9.5	Supply of 6A / 10A 1 Module Modular Switch with Neon Indicator. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	117.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	75.00
199	ELEC-1.9.6	Supply of 6A / 10A Modular Bell Push with Neon Indicator. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	137.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	90.00
200	ELEC-1.9.7	Supply of 16A / 10A Modular Flush Fuse with Neon Indicator. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	126.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	83.00
201	ELEC-1.9.8	Supply of 16A / 20A 1 Way 1 Module Modular Switch. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	126.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	83.00
202	ELEC-1.9.9	Supply of 16A / 20A 2 Way 1 Module Modular Switch. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	138.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	95.00
203	ELEC-1.9.10	Supply of 20A 1 Way 1 Module Modular Switch with Indicator. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	138.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	91.00
204	ELEC-1.9.11	Supply of 20A 2 Module Modular Socket with shutter. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	188.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	133.00
205	ELEC-1.9.12	Supply of 16A/6A 1 way 2 Module Combi Socket Modular Socket with shutter. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	196.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	135.00
206	ELEC-1.9.13	Supply of 16A Triangle Top. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	158.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	65.00
207	ELEC-1.9.14	Supply of 1 Module Modular type Electronic step type Fan Regulator. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	473.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	375.00
208	ELEC-1.9.15	Supply of Modular socket type Telephone jack with Connector. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	100.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	65.00
209	ELEC-1.9.16	Supply of Modular co-Axial socket type TV Antenna outlet. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	98.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	64.00
		<b>MODULAR COVER FRAMES</b>		
210	ELEC-1.9.17	Supply of 1 or 2 Modular Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	65.00

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1	2	3	4	7
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	56.00
211	ELEC-1.9.18	Supply of 3 Modular Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	77.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	69.00
212	ELEC-1.9.19	Supply of 4 Modular Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	89.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	81.00
213	ELEC-1.9.20	Supply of 6 Modular Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	130.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	108.00
214	ELEC-1.9.21	Supply of 8 Modular Horizontal / Vertical Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	172.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	137.00
215	ELEC-1.9.22	Supply of 12 Modular Vertical Cover Frame. Makes : Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus. Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	210.00
		Makes : Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / Great White / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanjo	1 No	167.00
		<b>SECTION - 2</b>		
	<b>2.1</b>	<b>PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS</b>		
		<b>( SDFU ) AS PER IS: 13947</b>		
216	ELEC-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	1419.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	1186.00
217	ELEC-2.1.2	Supply of 63A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	2446.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	1777.00
218	ELEC-2.1.3	Supply of 125A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	5857.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	4019.00

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1	2	3	4	7
219	ELEC-2.1.4	Supply of 200A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	7644.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	6073.00
220	ELEC-2.1.5	Supply of 250A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	9177.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	6848.00
221	ELEC-2.1.6	Supply of 400A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	14128.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	10458.00
222	ELEC-2.1.7	Supply of 630A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes : L&T / G E / C&S / ABB / SIEMENS	1 No	23897.00
		Makes : Havells / HPL / Indo Asian / Standard / Vimal.	1 No	17365.00
	<b>2.2</b>	<b>ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION) AS PER IS:13947</b>		
223	ELEC-2.2.1	Supply of 63A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	4342.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	3937.00
224	ELEC-2.2.2	Supply of 125A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	8220.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	7648.00
225	ELEC-2.2.3	Supply of 200A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	10998.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	10121.00
226	ELEC-2.2.4	Supply of 250A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	15629.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	14395.00
227	ELEC-2.2.5	Supply of 400A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	23848.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	22379.00
228	ELEC-2.2.6	Supply of 630A 4 Pole Change Over Switch on Load with open Execution. Makes : Socomec / L & T	1 No	28363.00
		Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	26877.00
229	ELEC-2.2.7	Supply of 32A 4 Pole Change Over Switch on Load with open Execution. Makes : ABB / GE / Siemens / Havells / Indo Asian / HPL / Standard / C&S / Benlo.	1 No	1510.00
	<b>2.3</b>	<b>OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE AS PER IS:13947</b>		

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1	2	3	4	7
230	ELEC-2.3.1	Supply of 32A 240V DP Off load Changeover Switch in sheet steel enclosure. Makes : HPL / Havells / Indo Asian Makes : Million / Benlo / Gold Medal / Star/ Standard / C&S.	1 No 1 No	1384.00 798.00
231	ELEC-2.3.2	Supply of 63A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes : HPL / Havells / Indo Asian Makes : Million / Benlo / Gold Medal / Star/ Standard / C&S.	1 No 1 No	4824.00 2804.00
232	ELEC-2.3.3	Supply of 100A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes : HPL / Havells / Indo Asian Makes : Million / Benlo / Gold Medal / Star/ Standard / C&S.	1 No 1 No	7357.00 5270.00
	<b>2.4</b>	<b>REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE AS PER IS:13947</b>		
233	ELEC-2.4.1	Supply of 32A 240V SPN Rewirable Fuse Switch in SS enclosure. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	936.00 620.00
234	ELEC-2.4.2	Supply of 32A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	1446.00 1033.00
235	ELEC-2.4.3	Supply of 63A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	3302.00 2350.00
236	ELEC-2.4.4	Supply of 100A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	6148.00 4579.00
237	ELEC-2.4.5	Supply of 100A 415V TPN Double Break Switch in SS enclosure without fuses. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	6190.00 4730.00
238	ELEC-2.4.6	Supply of 200A 415V TPN Double Break Switch in SS enclosure without fuses. Makes : HPL / Havells / Indo Asian Makes : GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star.	1 No 1 No	9025.00 7747.00
	<b>2.5</b>	<b>HRC FUSE LINKS (BOLTED TYPE)</b>		
239	ELEC-2.5.1	Supply of up to 32A HRC Fuse Links. Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	50.00
240	ELEC-2.5.2	Supply of 32A to 63A HRC Fuse Links. Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	77.00
241	ELEC-2.5.3	Supply of 125A to 200A HRC Fuse Links.		

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1	2	3	4	7
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	248.00
242	ELEC-2.5.4	Supply of 250A to 350A HRC Fuse Links.		
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	363.00
243	ELEC-2.5.5	Supply of 400A HRC Fuse Links.		
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	704.00
244	ELEC-2.5.6	Supply of 630A HRC Fuse Links.		
		Makes : L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian.	1 No	1425.00
	<b>2.6</b>	<b>PORCELAIN REWIRABLE FUSE UNITS.</b>		
245	ELEC-2.6.1	Supply of 32A 240V Porcelain Rewirable Fuse Units.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	99.00
246	ELEC-2.6.2	Supply of 32A 415V Porcelain Rewirable Fuse Units.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	123.00
247	ELEC-2.6.3	Supply of 63A 415V Porcelain Rewirable Fuse Units.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	259.00
248	ELEC-2.6.4	Supply of 100A 415V Porcelain Rewirable Fuse Units.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	484.00
249	ELEC-2.6.5	Supply of 200A 415V Porcelain Rewirable Fuse Units with extension strip.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	891.00
250	ELEC-2.6.6	Supply of 300A 415V Porcelain Rewirable Fuse Units with extension strip.		
		Makes : GM / Sputnik / Kundancab / Million / Gold Medal / Vimal / Star / Benlo.	1 No	1182.00
	<b>2.7</b>	<b>VOLTAGE SURGE PROTECTORS</b>		
251	ELEC-2.7.1	Supply of 2 Pole 2 Module 40 KA 1.4 KV Voltage Surge Protector.		
		Make:Legrand / Siemens / Hager / G E / L&T.	1 No	8000.00
252	ELEC-2.7.2	Supply of 4 Pole 4 Module 40 KA 1.4 KV Voltage Surge Protector.		
		Make:Legrand / Siemens / Hager / G E / L&T.	1 No	15000.00
253	ELEC-2.7.3	Supply of 2 Pole 2 Module 15 KA 1.2 KV Voltage Surge Protector.		
		Make:Legrand / Siemens / Hager / G E / L&T.	1 No	6400.00
254	ELEC-2.7.4	Supply of 4 Pole 4 Module 15 KA 1.2 KV Voltage Surge Protector.		
		Make:Legrand / Siemens / Hager / G E / L&T.	1 No	12000.00
	<b>2.8</b>	<b>PANEL MOUNTING MCCBs/ ACBs (Thermal Magnetic Release)</b>		
255	ELEC-2.8.1	Supply of 63A / 60A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.		
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	6363.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	4441.00
256	ELEC-2.8.2	Supply of 63A / 60A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted.		
		Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	7154.00

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1	2	3	4	7
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	5952.00
257	ELEC-2.8.3	Supply of 125A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	7554.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	5807.00
258	ELEC-2.8.4	Supply of 125A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	9135.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	7634.00
259	ELEC-2.8.5	Supply of 250A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 36/35 KA with thermal magnetic release Panel Mounted. Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	16827.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	15565.00
260	ELEC-2.8.6	Supply of 250A 4 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 35/36 KA with thermal magnetic release Panel Mounted of makes L&T (DN2-250N) / Schneider / Siemens / Hager Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	21859.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	18911.00
261	ELEC-2.8.7	Supply of 400A 3 Pole MCCB, Adjustable, Confirms to IS/IEC 60947-2 having Breaking Capacity 36/35 KA with thermal magnetic release Panel Mounted. Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	22775.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	19950.00
262	ELEC-2.8.8	Supply of 400A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 50 KA with thermal magnetic release Panel Mounted. Makes : L&T / Schneider / Siemens / Legrand / Hager.	1 No	27519.00
		Makes : GE / ABB / Havells / HPL / Indo Asian / C&S / Standard.	1 No	24035.00
263	ELEC-2.8.9	<b>PANEL MOUNTING ACBs (Microprocessor Based)</b> 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	109667.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1 No	98700.00
264	ELEC-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	146783.00
		Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.	1 No	132104.00



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1	2	3	4	7
265	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b> <b>Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.</b>	1 No 1 No	136334.00 122700.00
266	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b> <b>Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.</b>	1 No 1 No	181805.00 163624.00
267	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b> <b>Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.</b>	1 No 1 No	154640.00 139176.00
268	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b> <b>Makes : ABB / Legrand / HPL / GE / Hager / Havells / Indo Asian.</b>	1 No 1 No	191882.00 172694.00
269	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b>	1 No	162519.00
270	ELEC-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. <b>Makes : Siemens / L&amp;T / Schneider</b>	1 No	204637.00
271	ELEC-2.8.17	Supply, instalation, testing and commisioning of 800 Amp, 50KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains system made of CRCA sheet steel encloser of thickness not less than 1.5 mm having degree of protection of IP 55 as per 2127. wall straps, fully PVC insulated four strip ALUMINIUM busbar in conivent sections including , end feed unit, end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc.,  <b>Makes : Legrand (Zucchini) / L&amp;T / Seimens / Schneider / GE</b>	1 Mtr	11996.00
272	ELEC-2.8.18	Supply and Fixing of Spring suspension hanger for rising Main for 400A / 800A Raising Mains. <b>Makes : Legrand (Zucchini) / L&amp;T / Seimens / Schneider / GE</b>	1 No	4605.00



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1	2	3	4	7
273	ELEC-2.8.19	Supply and Fixing of Suspension brackets for rising main for 400A / 800A Raising Mains. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	3989.00
274	ELEC-2.8.20	Supply and Fixing of 800 Amps Horizontal / Vertical bends. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	29754.00
275	ELEC-2.8.21	Supply and Fixing of Adopter box for 400A / 800A Raising Mains. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	12825.00
276	ELEC-2.8.22	Supply and Fixing of 800 Amps Copper Flexibles for three phases and neutral. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	39801.00
277	ELEC-2.8.23	Supply, instalation, testing and commisioning of 400 Amp, 50KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains system made of CRCA sheet steel encloser of thickness not less than 1.5 mm having degree of protection of IP 55 as per 2127. wall strapas, fully PVC insulated four strip ALUMINIUM busbar in convinent sections including required end feed unit, end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System, etc. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 Mtr	8903.00
278	ELEC-2.8.24	Supply and Fixing of 400 Amps Horizontal / Vertical bends. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	28002.00
279	ELEC-2.8.25	Supply and Fixing of 400 Amps Copper Flexibles for three phases and neutral. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	34928.00
280	ELEC-2.8.26	Supply and Fixing of 400 Amps Tap off box. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	38091.00
281	ELEC-2.8.27	Supply and Fixing of 250 Amps Tap off box. Makes : Legrand (Zucchini) / L&T / Seimens / Schneider / GE	1 No	35568.00
	<b>2.9</b>	<b>MCBs (AS PER IS:60898-1:2002)</b>		
282	ELEC-2.9.1	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.  Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	206.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	124.00
283	ELEC-2.9.2	Supply of 40-63A 10KA SP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.  Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	432.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	364.00

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1	2	3	4	7
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	226.00
284	ELEC-2.9.3	Supply of 6-32A 10KA DP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	607.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	523.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	342.00
285	ELEC-2.9.4	Supply of 40-63A 10KA DP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	982.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	716.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	512.00
286	ELEC-2.9.5	Supply of 6-32A 10KA TP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	975.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	835.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	625.00
287	ELEC-2.9.6	Supply of 40-63A 10KA TP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	1507.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1157.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	964.00
288	ELEC-2.9.7	Supply of 6-32A 10KA FP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	1307.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1084.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	803.00
289	ELEC-2.9.8	Supply of 40-63A FP MCB, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	1937.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1453.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	1135.00
290	<b>2.10</b> ELEC-2.10.1	<b>ISOLATORS CONFIRMS TO I E C 60947 PART-III</b> Supply of 32A DP Isolator. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	345.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	325.00

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1	2	3	4	7
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	220.00
291	ELEC-2.10.2	Supply of 40A DP Isolator. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	375.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	341.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	264.00
292	ELEC-2.10.3	Supply of 63A DP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	498.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	420.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	352.00
293	ELEC-2.10.4	Supply of 40A TP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	637.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	597.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	391.00
294	ELEC-2.10.5	Supply of 63A TP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	740.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	602.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	437.00
295	ELEC-2.10.6	Supply of 40A FP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	831.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	692.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	584.00
296	ELEC-2.10.7	Supply of 63A FP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	908.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	749.00
297	ELEC-2.10.8	Supply of 100A FP Isolator . Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	976.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	937.00
	<b>2.11</b>	<b>RCCBs CONFIRMS TO IEC:61008 AND IS:12640</b>		
298	ELEC-2.11.1	Supply of 40A 2 Pole RCCB 30mA.		

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1	2	3	4	7
		Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	2754.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2196.00
299	ELEC-2.11.2	Supply of 40A 2 Pole RCCB 100mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	2958.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2161.00
300	ELEC-2.11.3	Supply of 40A 4 Pole RCCB 30mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	3030.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2700.00
301	ELEC-2.11.4	Supply of 40A 4 Pole RCCB 100mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	3198.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2610.00
302	ELEC-2.11.5	Supply of 63A 2 Pole RCCB 30mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	3366.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2961.00
303	ELEC-2.11.6	Supply of 63A 2 Pole RCCB 100mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	3397.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	2836.00
304	ELEC-2.11.7	Supply of 63A 4 Pole RCCB 30mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	3586.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	3080.00
305	ELEC-2.11.8	Supply of 63A 4 Pole RCCB 100mA. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	4080.00
		Makes : GE / ABB / GM / Havells / HPL(Techno) / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	3006.00
306	ELEC-2.11.9	Supply of MCB type Change Over Switch 20A Double Pole 2 way 400V AC suitable to fix on Din Channel. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / L&T Exora.	1 No	1918.00
	<b>2.12</b>	<b>MCB DISTRIBUTION BOARDS (AS PER IS:13032) SPN DB</b>		
307	ELEC-2.12.1	Supply of 4 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete.		

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1	2	3	4	7
		Makes : Legrand / Schneider / Siemens / L&T	1 No	776.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	473.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	335.00
308	ELEC-2.12.2	Supply of 4 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete.		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	1010.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	816.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	563.00
309	ELEC-2.12.3	Supply of 8 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 8Nos S.P out goings and for 1 No Incommer etc complete.		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	898.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	619.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	455.00
310	ELEC-2.12.4	Supply of 8 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 8Nos S.P out goings and for 1 No Incommer etc complete.		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	1270.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1153.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	772.00
311	ELEC-2.12.5	Supply of 12 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 12Nos S.P out goings and for 1 No Incommer etc complete.		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	1066.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	709.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	558.00
312	ELEC-2.12.6	Supply of 12 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 12Nos S.P out goings and for 1 No Incommer etc complete.		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	1536.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1377.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	977.00
		<b>TPN DB</b>		
313	ELEC-2.12.7	Supply of 4 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 12 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete		
		Makes : Legrand / Schneider / Siemens / L&T	1 No	1530.00
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1423.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	1301.00

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1	2	3	4	7
314	ELEC-2.12.8	Supply of 4 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 12 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete of makes Legrand / Schneider / Siemens / L&T  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	2541.00 2244.00 1683.00
315	ELEC-2.12.9	Supply of 4 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for TP / SP out goings etc complete.  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	6166.00 5712.00 3305.00
316	ELEC-2.12.10	Supply of 4 Way VTPN DB suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and 4 Nos TP MCBs as outgoing and with IP 43 Protection.  Makes : Legrand / Schneider / Siemens / L&T	1 No	8000.00
317	ELEC-2.12.11	Supply of 8 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 24 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete .  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	3825.00 3570.00 2581.00
318	ELEC-2.12.12	Supply of 8 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for 8 Nos T.P. out goings etc complete.  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	7926.00 6962.00 5274.00
319	ELEC-2.12.13	Supply of 8 Way VTPN DB suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and 8 Nos TP MCBs as outgoing and with IP 43 Protection.  Makes : Legrand / Schneider / Siemens / L&T	1 No	10020.00
320	ELEC-2.12.14	Supply of 20A SP Plug and Socket with SS enclosure.  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	920.00 602.00 459.00
321	ELEC-2.12.15	Supply of 20A TP Plug and Socket with SS enclosure.  Makes : Legrand / Schneider / Siemens / L&T Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry. Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No 1 No 1 No	1734.00 1224.00 944.00
322	ELEC-2.12.16	Supply of 32A TP Plug and Socket with SS enclosure.  Makes : Legrand / Schneider / Siemens / L&T	1 No	2040.00

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1	2	3	4	7
		Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	1530.00
		Makes : Gold Medal / Kundancab / Milltec / Sputnik / Benlo.	1 No	1326.00
323	ELEC-2.12.17	Supply of SP Enclosure with IP 20 Protection. Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	255.00
324	ELEC-2.12.18	Supply of DP/TP/FP Metal Enclosure with IP 20 Protection. Makes : GE / ABB / GM / Havells / HPL / Hager / Indo Asian (Gold Plus) / C&S / Honeywell sentry.	1 No	374.00
<b>SECTION - 3</b>				
<b>3.1 STREET LIGHT LUMINAIRES</b>				
325	ELEC-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	1071.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	842.00
326	ELEC-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 / Halonix / HPL.	1 No	2776.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	2185.00
327	ELEC-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 / Halonix / HPL.	1 No	4072.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	3379.00
328	ELEC-3.1.4	Supply of 250W SV / MH Street light luminaire integral with pressure diecast aluminium housing having pot optics with IP66 protection with all standard accessories etc complete. Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix / HPL.	1 No	4675.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	3689.00
329	ELEC-3.1.5	Supply of 400W MH Flood light luminaire with Non - integral weather proof diecast aluminium housing with IP66 protection with Control Gear Box without lamp Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix.	1 No	6439.00
		Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	4901.00
330	ELEC-3.1.6	Supply of 2 x 400W MH Flood light luminaire with Non - integral weather proof diecast aluminium housing with IP66 protection with Control Gear Box without lamp Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya.	1 No	12555.00



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1	2	3	4	7
331	ELEC-3.1.7	Supply of 500W Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories. Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	456.00
332	ELEC-3.1.8	Supply of 1000W Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories Makes : Style Lamp / Mahita Electro / Capart / Akhil / RK / Venture / Pro-Lite.	1 No	911.00
333	ELEC-3.1.9	Supply of 1 x 26W CFL well glass, low bay luminaire with die cast alluminium housing epoxy gray powder coated built in Electronic ballast with gink plated wire guard and eye bolt. Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Havells.	1 No	1722.00
	<b>3.2</b>	<b>POST TOP LANTERN LUMINAIRES</b>		
334	ELEC-3.2.1	Supply of 1 x 18W CFL integral post top luminaire with conical shape, opal clear acrylic diffuser with cast alluminium pole mounting capsule complete with all accessories and ballast. Makes : Crompton / Bajaj / Surya / Havells / HPL.	1 No	1838.00
335	ELEC-3.2.2	Supply of 70W SV / MH integral HID lamp post top lantern BJDPTI 70SV / MH LPF or its equivalent with diamond / Mushroom / Spherical diffuser etc complete with all accessories. Makes : Wipro / Phillips / Bajaj / Crompton / Surya.	1 No	3822.00
	<b>3.3</b>	<b>ACCESSORIES FOR MV / SV / MH LUMINAIRES COPPER BALLASTS</b>		
336	ELEC-3.3.1	Supply of 80W MV copper ballast. Makes : G.E. / Phillips / Crompton / Bajaj / Surya / Havells.  Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	674.00  611.00
337	ELEC-3.3.2	Supply of 125W MV copper ballast. Makes : G.E. / Phillips / Crompton / Bajaj / Surya / Havells.  Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	737.00  620.00
338	ELEC-3.3.3	Supply of 70 W SV / MH copper ballast Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix / HPL. Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	611.00  585.00
339	ELEC-3.3.4	Supply of 150 W SV / MH copper ballast. Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix / HPL. Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	955.00  857.00
340	ELEC-3.3.5	Supply of 250 W SV / MH copper ballast Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix / HPL. Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	1357.00  1162.00
341	ELEC-3.3.6	Supply of 400 W SV / MH copper ballast. Makes : Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Halonix / HPL.	1 No	1985.00



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1	2	3	4	7
		Makes : RK / Style Lamp / Akhil / Capart / Mahitha Electro / Venture / Prolite.	1 No	1612.00
342	ELEC-3.3.7	Supply of Ignitor for SV / MH Lamp Makes : Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / HPL / Havells / Venture / Capart / Prolite / Halonix.	1 No	171.00
343	ELEC-3.3.8	Supply of 4 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	91.00
344	ELEC-3.3.9	Supply of 10 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	152.00
345	ELEC-3.3.10	Supply of 15 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	181.00
346	ELEC-3.3.11	Supply of 20 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	247.00
347	ELEC-3.3.12	Supply of 33 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	395.00
348	ELEC-3.3.13	Supply of 42 mfd HPF Capacitor. Makes : TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	437.00
		<b>ENERGY SAVING ELECTRONIC BALLAST FOR STREET LIGHT</b>		
349	ELEC-3.3.14	Supply of 70W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee Makes : Phillips / Whipro / Trinic / GE.	1 No	2205.00
350	ELEC-3.3.15	Supply of 150W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee. Makes : Phillips / Whipro / Trinic / GE.	1 No	3015.00
351	ELEC-3.3.16	Supply of 250W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee. Makes : Phillips / Whipro / Trinic / GE.	1 No	3780.00
	<b>3.4</b>	<b>LAMPS</b>		
352	ELEC-3.4.1	Supply of 500W Hallozen Lamp with ISI mark. Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	108.00
353	ELEC-3.4.2	Supply of 1000W Hallozen Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	60.00
354	ELEC-3.4.3	Supply of 70W SV Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	80.00
355	ELEC-3.4.4	Supply of 150W SV Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	495.00
356	ELEC-3.4.5	Supply of 250W SV Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	400.00
			1 No	710.00
			1 No	600.00

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1	2	3	4	7
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	770.00
357	ELEC-3.4.6	Supply of 400W SV Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	680.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	840.00
358	ELEC-3.4.7	Supply of 70W double end MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	780.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	605.00
359	ELEC-3.4.8	Supply of 150W double end MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	530.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	900.00
360	ELEC-3.4.9	Supply of 70W MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	800.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	890.00
361	ELEC-3.4.10	Supply of 150W MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	850.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	990.00
362	ELEC-3.4.11	Supply of 250W MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	900.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / HPL / Havells / Halonix.	1 No	1350.00
363	ELEC-3.4.12	Supply of 400W MH Lamp with ISI mark. Makes : Elton / Style Lamp / Mahita Electro / Capart	1 No	1100.00
		Makes : Phillips / Osram / Crompton / Bajaj / Surya / 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>		
364	ELEC-3.5.1	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 3 KW of single phase load with necessary clamping arrangements.		
		Makes : Swadep Nature Switch / Light Mate / L&T / Siemens / Bajaj	1 No	11000.00
365	ELEC-3.5.2	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, with suitable MCBs and contactor suitable to control the load of 5 KW of single phase load with necessary clamping arrangements.		
		Makes : Swadep Nature Switch / Light Mate / L&T / Siemens / Bajaj	1 No	11500.00
366	ELEC-3.5.3	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 8 KW of single phase load with necessary clamping arrangements.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
367	ELEC-3.5.4	<p>Makes : Swadep Nature Switch / Light Mate / L&amp;T / Siemens / Bajaj</p> <p>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.</p>	1 No	13100.00
368	ELEC-3.5.5	<p>Makes : Swadep Nature Switch / Light Mate / L&amp;T / Siemens / Bajaj</p> <p>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.</p>	1 No	14400.00
369	ELEC-3.5.6	<p>Makes : Swadep Nature Switch / Light Mate / L&amp;T / Siemens / Bajaj</p> <p>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.</p>	1 No	14900.00
370	ELEC-3.6.1	<p><b>3.6</b> <b>INTERNAL LUMINAIRES</b></p> <p>Supply of 1 x 11W Mirror light with all standard accessories diffuser</p> <p>Makes : G.E. / Phillips / Crompton / Bajaj.</p>	1 No	611.00
371	ELEC-3.6.2	<p>Makes : Surya / Havells / HPL / Fortune Art</p> <p>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.</p>	1 No	521.00
372	ELEC-3.6.3	<p>Makes : Wipro / G.E. / Phillips / Crompton / Bajaj .</p> <p>Makes : Surya / Havells / HPL / Fortune Art</p> <p>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.</p>	1 No	732.00
373	ELEC-3.6.4	<p>Makes : Wipro / G.E. / Phillips / Crompton / Bajaj .</p> <p>Makes : Surya / Havells / HPL / Fortune Art</p> <p>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.</p> <p>Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.</p>	1 No	1100.00
374	ELEC-3.6.5	<p>Supply of 2 x 36W CFL Paralite louvre (P5) Surface / Recessed low glare Mirror Optic luminaire comprising bright anodised alluminium reflector with Electronic Ballst.</p>	1 No	1056.00
			1 No	2070.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	3060.00
375	ELEC-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	3375.00
376	ELEC-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	675.00
377	ELEC-3.6.8	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	114.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	99.00
378	ELEC-3.6.9	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	108.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	99.00
379	ELEC-3.6.10	Supply of 20W / 40W Copper Wound Ballast. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	144.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	132.00
380	ELEC-3.6.11	Supply of 18/20W VPIT Ballast. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	144.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	131.00
381	ELEC-3.6.12	Supply of 36/40W VPIT Ballast of makes Phillips / Crompton / Bajaj / Surya. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	189.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	153.00
382	ELEC-3.6.13	Supply of 40W Starter of makes Phillips / Crompton / Bajaj / Surya. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	10.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	8.00
383	ELEC-3.6.14	Supply of Rotor holder(FTL). Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	19.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	16.00
384	ELEC-3.6.15	Supply of HID Lamp holder. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	48.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	38.00
385	ELEC-3.6.16	Supply of CFL holder of makes Phillips / Crompton / Bajaj / Surya.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	29.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	23.00
386	ELEC-3.6.17	Supply of FTL Starter holder. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	14.00
		Makes : Fortune Art / Style Lamp / Mahita Electro / Capart	1 No	11.00
387	ELEC-3.6.18	Supply of 36W Electronic Ballast with total harmonic distortion is less than 10% for FTL. Makes : Phillips / Crompton / Bajaj / Surya / HPL / Havells.	1 No	553.00
388	ELEC-3.6.19	Supply of 36W Electronic ballast with power factor greater than 0.9 to 0.95 suitable for FTL. Make : Crompton Model No.EBN 136D / Bajaj Model No.BJHF 136 / Havells LHBF 27904025 or its equivalent.	1 No	248.00
389	ELEC-3.6.20	Supply of 2 x 36/40W Industrial Box type tube light luminaire powder coated CRCA sheet steel housing with Reflector and Electronic ballast and all standard accessories. Makes : Crompton / Bajaj / Surya / HPL / Havells.	1 No	1454.00
390	ELEC-3.6.21	Supply of 4 x 14W TL 5 high efficiency recessed luminaire, epoxy powder coated CRCA sheet steel housing, low glare with electronic ballast including cost of lamps etc., complete. Makes: Phillips Model No.sereno-TBS 869 / Bajaj Model No.BTMRA 414 CAT II / Crompton Model No.CRTL414EB/S.	1 No	3870.00
391	ELEC-3.6.22	Supply of 1 x 28W surface pendent mounting T5 Luminaire Box type with CRCA housing with Electronic Ballast and all standard accessories Makes : Phillips / Crompton / Bajaj / Surya / Havells.	1 No	765.00
392	ELEC-3.6.23	Supply of 1 x 28W surface pendent mounting T5 Luminaire plastic housing with integrated reflector extruded aluminium luminaire with Electronic Ballast and all standard accessories. Makes : Phillips / Crompton / Bajaj / Surya / Havells.	1 No	486.00
393	ELEC-3.6.24	Supply of Bulk head fitting with cast aluminium enamel painted body with water tight, clear glass with wire guard hinged with lock and key arrangements etc., complete. Makes : Bajaj / Crompton / Surya.	1 No	315.00
394	ELEC-3.6.25	Supply of single fancy bracket with glass shade best Indian make	1 No	194.00
395	ELEC-3.6.26	Supply of double fancy bracket with glass shade best Indian make	1 No	347.00
	<b>3.7</b>	<b>FLOURSCENT TUBES / CFL LAMPS</b>		
396	ELEC-3.7.1	Supply of 40W-60W Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1 No	12.00
397	ELEC-3.7.2	Supply of Night Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Style Lamp / Mahita Electro / Capart.	1 No	11.00
398	ELEC-3.7.3	Supply of 18/20W fluorescent tube.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
399	ELEC-3.7.4	Makes : Phillips / Crompton / Bajaj / Surya. Supply of 36/40W fluorescent tube. Makes : Phillips / Crompton / Bajaj / Surya. Makes : Fortune Art / Style lamp / Mahita Electro / Capart	1 No 1 No 1 No	41.00 45.00 38.00
400	ELEC-3.7.5	Supply of 28W T5 fluorescent tube. Makes : Crompton / Bajaj / Phillips / Surya / Havells.	1 No	120.00
401	ELEC-3.7.6	Supply of 9W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	75.00
402	ELEC-3.7.7	Supply of 11W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	80.00
403	ELEC-3.7.8	Supply of 13W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	105.00
404	ELEC-3.7.9	Supply of 18W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	115.00
405	ELEC-3.7.10	Supply of 26W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	160.00
406	ELEC-3.7.11	Supply of 36W Pin type CFL Lamp. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	135.00
407	ELEC-3.7.12	Supply of up to 5W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	115.00
408	ELEC-3.7.13	Supply of up to 8W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	125.00
409	ELEC-3.7.14	Supply of up to 10/11W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	135.00
410	ELEC-3.7.15	Supply of up to 13/14W Retrofit tiny CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	110.00
411	ELEC-3.7.16	Supply of 15W Retrofit tiny CFL . Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	180.00
412	ELEC-3.7.17	Supply of up to 18/20W Retrofit CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	170.00
413	ELEC-3.7.18	Supply of 23W Retrofit CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	200.00
414	ELEC-3.7.19	Supply of up to 25/26W Retrofit CFL. Makes : Phillips / Crompton / Bajaj / Surya / Havells / HPL / Halonix.	1 No	200.00
	<b>3.8</b>	<b>ENERGY CONSERVING FIXTURES</b>		
415	ELEC-3.8.1	Supply of 1 x 28W Box type powder coated energy conserving tube light luminaire with Electronic ballast operating voltage range of 90 volts to 350 volts power factor > 0.98 current less than 130ma crest factor and total harmonic distortion shall be as per IS Specification with auto cut off at high voltage suitable for 36/40W tube with 5 years guarantee for luminaire.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
416	ELEC-3.8.2	Makes: Trinic or its equivalent. 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.	1 No	954.00
417	<b>3.9</b> ELEC-3.9.1	Makes: Trinic or its equivalent. <b>LED LUMINAIRES INDOOR</b> Supply and transportation of 5W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	720.00
418	ELEC-3.9.2	Supply and transportation of 5W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. . LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	510.00
419	ELEC-3.9.3	Supply and transportation of 5W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. . LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well/ Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	459.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
420	ELEC-3.9.4	Supply and transportation of 7W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1360.00
421	ELEC-3.9.5	Supply and transportation of 7W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty.  LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	850.00
422	ELEC-3.9.6	Supply and transportation of 7W LED Spot Light Recessed mounting with housing made of Powder coated Pressure die cast aluminium , IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty.  LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well / Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1105.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
423	ELEC-3.9.7	Supply and transportation of 12W LED Down Light Recessed / Surface mounting round/ square with housing made of Powder coated Pressure die cast aluminium housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1998.00
424	ELEC-3.9.8	Supply and transportation of 12W LED Down Light Recessed / Surface mounting round/ square with housing made of Powder coated Pressure die cast aluminium housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1666.00
425	ELEC-3.9.9	Supply and transportation of 12W LED Down Light Recessed / Surface mounting with housing made of Powder coated Pressure die cast aluminium housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well / Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1369.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
426	ELEC-3.9.10	Supply and transportation of 12W LED slimline panel light Housing made of Powder coated, round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1071.00
427	ELEC-3.9.11	Supply and transportation of 12W LED slimline panel Light Housing made of Powder coated, round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	995.00
428	ELEC-3.9.12	Supply and transportation of 12W LED slimline panel Light Housing made of Powder coated, round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well / Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	893.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
429	ELEC-3.9.13	Supply and transportation of 18W LED Down Light Recessed / Surface mounting round / Square Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	2457.00
430	ELEC-3.9.14	Supply and transportation of 18W LED Down Light Recessed / Surface mounting Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1879.00
431	ELEC-3.9.15	Supply and transportation of 18W LED Down Light Recessed / Surface mounting Housing made of Powder coated Pressure die cast aluminum housing with extended heat sink, with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well / Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1369.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
432	ELEC-3.9.16	Supply and transportation of 18W LED slim panel Light Housing made of Powder coated aluminum housing , Round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1590.00
433	ELEC-3.9.17	Supply and transportation of 18W LED slim panel Light, Housing made of Powder coated aluminum housing with extended heat sink, Round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: $\geq$ 2KV, System efficacy of >90 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Pharox / Muelux / Fortune Art / Capart / Green Lites / Kashyap BLU / GM / Million / Goldwyn / Goldmedal / Trinic / Stanjo. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1411.00
434	ELEC-3.9.18	Supply and transportation of 18W LED slim panel Light, Housing made of Powder coated aluminum housing with extended heat sink, Round / Square with Protruded high efficiency diffuser, IP20, with wide operating voltage range, Power factor > 0.9, Surge protection: > 2KV, System efficacy of >80 lumens/watt, CCT: 3000K - 6500K as desired by the department and as per IS, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Vimal / Sieger / Goldmedal / Ecova / Taiyolux / Link Well Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1292.00
435	ELEC-3.9.19	Supply and transportation of 20W, 2000 lumens, T8,1200mm length LED retro tube light,wide operating voltage with double side connection, PF $\geq$ 0.9, Surge protection: $\geq$ 2KV, THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department and as per IS specifications, minimum CRI $\geq$ 80,.etc complete with 5 years warranty. LUMINAIRE MAKE: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1093.00

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1	2	3	4	7
436	ELEC-3.9.20	Supply and transportation of 20W, 1900 lumens, T8,1200mm length LED retro tube light,wide operating voltage, double side connection, with PF≥0.9, Surge protection: ≥ 2KV, THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department and as per IS specifications, minimum CRI≥80,.etc.complete with 5 years warranty. LUMINAIRE MAKE: Pharox / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / GM / Million / Goldwyn / Stanjo / Trinic. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	850.00
437	ELEC-3.9.21	Supply and transportation of 20W, 1800 lumens, T8,1200mm length LED retro tube light,wide operating voltage, with double side connection, with PF≥0.9, Surge protection: ≥ 2KV, THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI≥70,.etc.,complete. LUMINAIRE MAKE : Avni / Stanjo / Cosmo / VRILISO / JSTC Solar/ ECOVA. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	765.00
438	ELEC-3.9.22	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 / T8 LED light housing made with aluminium anodised body, wide operating voltage with PF≥0.9, Surge protection: ≥ 2KV, THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department as per IS, minimum CRI≥80 etc., complete with 5 years warranty. LUMINAIRE MAKE: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	1265.00
439	ELEC-3.9.23	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 / T8 LED light housing made with aluminium anodised body, wide operating voltage with PF≥0.9, Surge protection:≥ 2KV, THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department as per IS, minimum CRI≥80 etc., complete with 5 years warranty. LUMINAIRE MAKE: Pharox / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / GM / Million / Goldwyn / Stanjo / Trinic. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	765.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
440	ELEC-3.9.24	Supply and transportation of 18W/20W, 1700 lumens, 1200mm length T5 / T8 LED light housing made with aluminium anodised body, wide operating voltage with PF $\geq$ 0.9, Surge protection: $\geq$ 2KV, THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department as per IS, minimum CRI $\geq$ 80, etc., complete with 5 years warranty. LUMINAIRE MAKE: Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Goldmedal / Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	680.00
441	ELEC-3.9.25	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) Recessed / Surface mounted LED luminaire made of CRCA sheet housing with powder coated with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV. System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4548.00
442	ELEC-3.9.26	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) slim panel LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE: Pharox / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / GM / Million / Goldwyn / Stanjo / Trinic. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4046.00

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1	2	3	4	7
443	ELEC-3.9.27	Supply and Transportation of 36W 2' x2' (600mm x 600mm) Slim panel LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Goldmedal/ Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	3757.00
444	ELEC-3.9.28	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) Recessed / Surface mounted LED luminaire made of CRCA sheet housing with powder coated with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4403.00
445	ELEC-3.9.29	Supply and Transportation of 36W, 2' x2' (600mm x 600mm) Recessed / Surface mounted LED luminaire made of CRCA sheet housing with powder coated with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV. System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE: Pharox / Muelux / Fortune Art / Capart / Green lites / Kashyap BLU / GM / Million / Goldwyn / Stanjo / Trinic. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	3757.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
446	ELEC-3.9.30	Supply and Transportation of 36W Recessed / Surface mounting 2' x 2' (600mm x 600mm) LED luminaire made of CRCA sheet housing with powder coated with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV. System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Avni / Kripa Lights / Cosmo / VRILISO / Pro-Lite / Scintilla / JSTC Solar / Goldmedal/ Ecova LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	3536.00
447	ELEC-3.9.31	Supply and Transportation of 45W , 2' x 2' (600mm x 600mm) slim LED luminaire Round / Square with System Lumens of $\geq$ 3000, Housing Made of Aluminum alloy with corrosion resistant powder coat, with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE : Phillips / OSRAM / GE / Crompton / Bajaj / Havells / Halonix / HPL / Syska / Surya. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4913.00
448	ELEC-3.9.32	Supply and Transportation of 45W, 2' x2' (600mm x 600mm) slim LED luminaire Round / Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection $\geq$ 2KV, System efficacy of >100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI >80, and THD is less than 15% etc., complete with 5 years warranty. LUMINAIRE MAKE: Pharox / Surya / Muelux / Fortune Art / Syska / Green lites. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	1 No	4548.00
449	ELEC-3.9.33	Supply and transportation of MS frame with powder coating suitable for 600mm x 600mm LED panel light.	1 No	475.00
450	ELEC-3.9.34	Supply & Fixing of LED box type batten frame made with CRCA sheet powder coated.	1 No	150.00
<b>3.10 LED INDOOR LAMPS</b>				
451	ELEC-3.10.1	Supply of 0.5W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 40 Lumens. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Greenlites.	1 No	60.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
452	ELEC-3.10.2	Supply of 3.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 210 Lumens of Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / Green lites. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1 No	149.00
453	ELEC-3.10.3	Supply of 5.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 350 Lumens of Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Halonix / Green lites. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1 No	213.00
454	ELEC-3.10.4	Supply of 7.0W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 490 Lumens. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1 No	255.00
455	ELEC-3.10.5	Supply of LED Candel Lamp for shandliers. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	1 No	213.00
	<b>3.11</b>	<b>LED STREET LIGHTS</b>		
456	ELEC-3.11.1	Supply and transportation of ..... LED Street light Body made of high grade pressure die – cast Aluminium alloy with corrosion resistant powder coat, having protective toughened glass cover, Less Glare, IP 66 (Silicon gasket ensures Optical & Electrical compartments are IP 66) protected, wide operating voltage range, P.F > 0.90, System having efficacy >100 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD<15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI>80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.		
	a	20 W	1 No	2400.00
	b	30 W	1 No	3760.00
	c	43 / 45 W	1 No	5600.00
	d	60 / 65 W	1 No	7120.00
	e	72 W	1 No	8280.00
	f	90W	1 No	11280.00
	g	120 W	1 No	13760.00
	h	150 W	1 No	16000.00
	i	180 W	1 No	18400.00
	j	210 W	1 No	22400.00

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457	ELEC-3.11.2	<p>Supply and transportation of ..... LED Street light Body made of high grade pressure die – cast Aluminium alloy with corrosion resistant powder coat, having protective toughened glass cover, Less Glare, IP 66 (Silicon gasket ensures Optical &amp; Electrical compartments are IP 66) protected, wide operating voltage range, P.F &gt; 0.90, System having efficacy &gt;90 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD&lt;15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI&gt;80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.</p> <p>LUMINAIRE MAKE : AVNI / GOLDWYN / MUELUX / KRIPA LIGHTS / FORTUNE ART / CAPART / GREENLITES / POLYCAB / INSTA POWER / GM / MILLION / JAQUAR / TRINIC / STANJO / PANASONIC. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>		
	a	20 W	1 No	2160.00
	b	30 W	1 No	3384.00
	c	43 / 45 W	1 No	5040.00
	d	60 / 65 W	1 No	6408.00
	e	72 W	1 No	7452.00
	f	90W	1 No	10152.00
	g	120 W	1 No	12384.00
	h	150 W	1 No	14400.00
	i	180 W	1 No	16560.00
	j	210 W	1 No	20000.00
458	ELEC-3.11.3	<p>Supply and transportation of ..... LED Street light Body made of high grade pressure die – cast Aluminium alloy with corrosion resistant powder coat, having protective toughened glass cover, Less Glare, IP 66 (Silicon gasket ensures Optical &amp; Electrical compartments are IP 66) protected, wide operating voltage range, P.F &gt; 0.90, System having efficacy &gt;80 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD&lt;15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI&gt;80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.</p> <p>LUMINAIRE MAKE : COSMO / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA / GOLDMEDAL / ECOVA / TAIYOLUX / LINK WELL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>		
	a	20 W	1 No	2040.00
	b	30 W	1 No	3196.00
	c	43 / 45 W	1 No	4760.00
	d	60 / 65 W	1 No	6052.00
	e	90W	1 No	9588.00
	f	120 W	1 No	11696.00
	g	150 W	1 No	13600.00
	h	180 W	1 No	15640.00
	i	210 W	1 No	19040.00

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459	ELEC-3.11.4	<p>Supply and transportation of ..... LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover, IP 66 (Silicon gasket ensures Optical &amp; Electrical compartments are IP 66 )protected, wide operating voltage range , P.F &gt; 0.90, System having efficacy &gt;100 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD&lt;15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI&gt;80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.</p> <p>LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SYSKA / SURYA.</p> <p>LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.C1088</p>		
	a	60 W	1 No	8496.00
	b	90 W	1 No	11896.00
	c	120 W	1 No	15976.00
	d	150 W	1 No	20480.00
460	ELEC-3.11.5	<p>Supply and transportation of ..... LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover, IP 66 (Silicon gasket ensures Optical &amp; Electrical compartments are IP 66 )protected, wide operating voltage range , P.F &gt; 0.90, System having efficacy &gt;90 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD&lt;15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI&gt;80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.</p> <p>LUMINAIRE MAKE : AVNI / GOLDWYN / MUELUX / KRIPA LIGHTS / FORTUNE ART / CAPART / GREENLITES / POLYCAB / INSTA POWER / GM / MILLION / JAQUAR / TRINIC / STANJO / PANASONIC.</p> <p>LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.</p>		
	a	60 W	1 No	7136.00
	b	90 W	1 No	10536.00
	c	120 W	1 No	13256.00
	d	150 W	1 No	15682.00

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461	ELEC-3.11.6	Supply and transportation of ..... LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover, IP 66 (Silicon gasket ensures Optical & Electrical compartments are IP 66 )protected, wide operating voltage range , P.F > 0.90, System having efficacy >80 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD<15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI>80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty. LUMINAIRE MAKE : COSMO / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA / GOLDMEDAL / ECOVA / TAIYOLUX / LINK WELL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.		
	a	60 W	1 No	6244.00
	b	90 W	1 No	9219.00
	c	120 W	1 No	11599.00
	d	150 W	1 No	14114.00
	<b>3.12</b>	<b>LED DRIVERS</b>		
462	ELEC-3.12.1	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 6 / 9 W LED down lighter with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	200.00
			1 No	188.00
463	ELEC-3.12.2	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 12 / 18 W LED down lighter with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	300.00
			1 No	280.00
464	ELEC-3.12.3	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 36W, 2'x2' panel light with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	464.00
			1 No	436.00

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465	ELEC-3.12.4	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 40/45W, 2'x2' panel light with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	560.00
			1 No	528.00
466	ELEC-3.12.5	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 15-30W, LED street light fitting with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	336.00
			1 No	316.00
467	ELEC-3.12.6	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 45-80W, LED street light fitting with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	712.00
			1 No	672.00
468	ELEC-3.12.7	Supply and transportation of LED Driver with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 90-180W, LED street light fitting with 2 Years Warranty. LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN / HALONIX / HAVELLS / HPL / SURYA / SYSKA. LUMINAIRE MAKE : PHAROX / AVNI / GOLDWYN / KRIPA LIGHTS / FORTUNE ART / CAPART / STANJO / GREENLITES / TRINIC / PRO-LITE / SCINTILLA / JSTC - SOLAR / INSTA POWER / GM / MILLION / JAQUAR / PANASONIC.	1 No	1360.00
			1 No	1280.00
<b>3.13 INDUCTION LUMINARIES</b>				
469	ELEC-3.13.1	Supply and Transportation of Induction Type street light luminaire of following capacities comprises of single piece die cast Aluminium body and IP65 protection including Induction lamp and ballast etc., Complete with 5 years warranty. Makes : Crompton / Bajaj / Surya / LVD RAES / Billion Light / Fortune Art / Synergy Solutions / Tej-Kashyap.		
	a	80W	1 No	12640.00
	b	120W	1 No	14320.00

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1	2	3	4	7
470	ELEC-3.13.2	Supply and Transportation of Induction Type Flood light luminaire of following capacities comprises of single piece die cast Aluminium body and IP65 protection of including Induction lamp and ballast etc., Complete with 5 years warranty. Makes : Crompton / Bajaj / Surya / LVD RAES / Billion Light / Fortune Art / Synergy Solutions / Tej-Kashyap.		
	a	150W	1 No	16400.00
	b	200W	1 No	17600.00
	<b>3.14</b>	<b>BALLASTS FOR INDUCTION LAMPS</b>		
471	ELEC-3.14.1	Supply of 80W ballasts for Induction Lamp. Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1 No	3740.00
472	ELEC-3.14.2	Supply of 120W ballasts for Induction Lamp. Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1 No	4420.00
473	ELEC-3.14.3	Supply of 150W ballasts for Induction Lamp. Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1 No	4930.00
474	ELEC-3.14.4	Supply of 200W ballasts for Induction Lamp. Makes : Crompton / Bajaj / Surya / Synergy Solutions / Fortune Art / Billion Light.	1 No	5440.00
		<b>SECTION - 4</b>		
	<b>4.1</b>	<b>U.G. CABLES</b>		
475	ELEC-4.1.1	Supply of 4 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1 Mtr	92.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	78.00
476	ELEC-4.1.2	Supply of 6 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part- I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1 Mtr	108.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	93.00
477	ELEC-4.1.3	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1 Mtr	129.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	112.00
478	ELEC-4.1.4	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI.	1 Mtr	130.00
		Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	112.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
479	ELEC-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 / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	147.00
			1 Mtr	128.00
480	ELEC-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 / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	162.00
			1 Mtr	140.00
481	ELEC-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 / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	207.00
			1 Mtr	180.00
482	ELEC-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 / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	247.00
			1 Mtr	212.00
483	ELEC-4.1.9	Supply of 50 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	326.00
			1 Mtr	280.00
484	ELEC-4.1.10	Supply of 70 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	421.00
			1 Mtr	363.00
485	ELEC-4.1.11	Supply of 95 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	547.00
			1 Mtr	472.00
486	ELEC-4.1.12	Supply of 120 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / Paragon / V-Guard / Fortune Art / Suncab / Finecab / Gemscab / Payal.	1 Mtr	669.00
			1 Mtr	579.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
487	ELEC-4.1.13	Supply of 150 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / Finolex / V-Guard / Gloster / Suncab / Finecab / Gemscab.	1 Mtr	762.00
			1 Mtr	658.00
488	ELEC-4.1.14	Supply of 185 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / V-Guard.	1 Mtr	934.00
			1 Mtr	806.00
489	ELEC-4.1.15	Supply of 240 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / V-Guard.	1 Mtr	1185.00
			1 Mtr	1023.00
490	ELEC-4.1.16	Supply of 300 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / V-Guard.	1 Mtr	1449.00
			1 Mtr	1251.00
491	ELEC-4.1.17	Supply of 400 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torrent / Universal / Unicab / Polycab / Havells / Gloster / KEI. Makes : RPG / V-Guard.	1 Mtr	1815.00
			1 Mtr	1568.00
	<b>4.2</b>	<b>11 KV H.T. XLPE CABLES</b>		
492	ELEC-4.2.1	Supply of 3 Core 11 KV 35 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1 No	603.00
493	ELEC-4.2.2	Supply of 3 Core 11 KV 50 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1 No	683.00
494	ELEC-4.2.3	Supply of 3 Core 11 KV 70 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1 No	816.00
495	ELEC-4.2.4	Supply of 3 Core 11 KV 95 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1 No	972.00
496	ELEC-4.2.5	Supply of 3 Core 11 KV 120 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.	1 No	1104.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
497	ELEC-4.2.6	Supply of 3 Core 11 KV 150 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. <a href="#">Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.</a>	1 No	1248.00
498	ELEC-4.2.7	Supply of 3 Core 11 KV 185 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. <a href="#">Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.</a>	1 No	1475.00
499	ELEC-4.2.8	Supply of 3 Core 11 KV 240 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. <a href="#">Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.</a>	1 No	1680.00
500	ELEC-4.2.9	Supply of 3 Core 11 KV 300 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. <a href="#">Makes : Torrent / Universal / Unicab / Polycab / Havells / KEI / RPG / Gloster.</a>	1 No	1900.00
	<b>4.3</b>	<b>CABLE GLANDS</b>		
501	ELEC-4.3.1	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 185Sqmm with brass washers complete.	1 No	327.00
502	ELEC-4.3.2	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 240Sqmm with brass washers complete.	1 No	491.00
503	ELEC-4.3.3	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 300Sqmm with brass washers complete.	1 No	578.00
504	ELEC-4.3.4	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable for 400Sqmm with brass washers complete.	1 No	654.00
505	ELEC-4.3.5	Supply of single compression brass cable glands for 4 core XLPE armoured cable up to 16.0 Sq.mm with brass washers complete.	1 No	94.00
506	ELEC-4.3.6	Supply of single compression brass cable glands for 3.5 core XLPE armoured cable from 25 Sqmm to 50.0 Sq.mm with brass washers complete.	1 No	138.00
507	ELEC-4.3.7	Supply of Single compression brass cable glands for 3.5 core XLPE armoured cable from 70 Sqmm to 150.0 Sq.mm with brass washers complete.	1 No	264.00
	<b>4.4</b>	<b>LUGS</b>		
508	ELEC-4.4.1	Supply of copper lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1 No	22.00
509	ELEC-4.4.2	Supply of copper lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1 No	30.00
510	ELEC-4.4.3	Supply of copper lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1 No	33.00
511	ELEC-4.4.4	Supply of copper lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1 No	40.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
512	ELEC-4.4.5	Supply of copper lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1 No	55.00
513	ELEC-4.4.6	Supply of copper lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1 No	65.00
514	ELEC-4.4.7	Supply of copper lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1 No	88.00
515	ELEC-4.4.8	Supply of copper lugs confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.	1 No	104.00
516	ELEC-4.4.9	Supply of copper lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1 No	149.00
517	ELEC-4.4.10	Supply of copper lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1 No	215.00
518	ELEC-4.4.11	Supply of copper lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1 No	284.00
519	ELEC-4.4.12	Supply of copper lugs confirming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1 No	418.00
520	ELEC-4.4.13	Supply of aluminium lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1 No	12.00
521	ELEC-4.4.14	Supply of aluminium lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1 No	14.00
522	ELEC-4.4.15	Supply of aluminium lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1 No	17.00
523	ELEC-4.4.16	Supply of aluminium lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1 No	20.00
524	ELEC-4.4.17	Supply of aluminium lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1 No	25.00
525	ELEC-4.4.18	Supply of aluminium lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1 No	27.00
526	ELEC-4.4.19	Supply of aluminium lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1 No	35.00
527	ELEC-4.4.20	Supply of aluminium lugs confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.	1 No	40.00
528	ELEC-4.4.21	Supply of aluminium lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1 No	46.00
529	ELEC-4.4.22	Supply of aluminium lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1 No	71.00
530	ELEC-4.4.23	Supply of aluminium lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1 No	92.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
531	ELEC-4.4.24	Supply of aluminium lugs conforming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1 No	119.00
	<b>4.5</b>	<b>HEAT SHRINKABLE LT CABLE JOINTS</b>		
532	ELEC-4.5.1	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 10 to 16 Sqmm with outer tubing seamless type.		
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	1300.00
533	ELEC-4.5.2	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 25 to 50 Sqmm with outer tubing seamless type.		
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	1545.00
534	ELEC-4.5.3	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 70 to 185 Sqmm with outer tubing seamless type.		
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	2230.00
535	ELEC-4.5.4	Supply and erecting heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials and all labour charges etc., complete for 240 to 300 Sqmm with outer tubing seamless type.		
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	4000.00
536	ELEC-4.5.5	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 400 Sqmm with outer tubing seamless type.		
		Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	5425.00
	<b>4.6</b>	<b>3 CORE 11 KV HT CABLE STRAIGHT THROUGH JOINTS</b>		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
537	ELEC-4.6.1	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 16 to 35Sqmm with outer tubing tubular type.  Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	15070.00
538	ELEC-4.6.2	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 50 to 95Sqmm with anti tracking material.  Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	18095.00
539	ELEC-4.6.3	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade complete with necessary accessories and suitable clamps duly erected and connected to the supply for the following multi core cables including cost and conveyance of materials and all labour charges etc., complete for 120 to 185Sqmm with anti tracking material.  Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	23018.00
	<b>4.7</b>	<b>HT END TERMINATION KITS</b>		
540	ELEC-4.7.1	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 70-95 Sqmm with necessary materials etc., complete. Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	8211.00
541	ELEC-4.7.2	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with necessary materials etc., complete. Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	8321.00
542	ELEC-4.7.3	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 150-185 Sqmm with necessary materials etc., complete. Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	8925.00
543	ELEC-4.7.4	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 240-300 Sqmm with necessary materials etc., complete. Makes : Transeal - Hong shang / Raychem / M Seal / Multy.	1 No	9500.00
544	ELEC-4.7.5	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 70-95 Sqmm with necessary materials etc., complete with anti tracking red colour material as per IEC / IS specs only.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
545	ELEC-4.7.6	<p>Makes : Transeal - Hong shang / Raychem / M Seal / Multy.</p> <p>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.</p>	1 No	12452.00
545	ELEC-4.7.7	<p>Makes : Transeal - Hong shang / Raychem / M Seal / Multy.</p> <p>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.</p>	1 No	12562.00
546	ELEC-4.7.8	<p>Makes : Transeal - Hong shang / Raychem / M Seal / Multy.</p> <p>Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 240-300 Sqmm with necessary materials etc., complete.</p>	1 No	13750.00
547	4.8 ELEC-4.8.1	<p><b>DOUBLE WALLED CORRUGATED HDPE PIPE</b></p> <p>Supply and Transportation of Outer dia 50mm and Inner dia 38mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.</p>	1 No	14200.00
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	97.00
548	ELEC-4.8.2	<p>Supply and Transportation of Outer dia 63mm and Inner dia 51mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.</p>	1 Mtr	124.00
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	124.00
549	ELEC-4.8.3	<p>Supply and Transportation of Outer dia 78mm and Inner dia 63mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.</p>	1 Mtr	152.00
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	152.00
550	ELEC-4.8.4	<p>Supply and Transportation of Outer dia 90mm and Inner dia 76mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.</p>	1 Mtr	163.00
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	163.00
551	ELEC-4.8.5	<p>Supply and Transportation of Outer dia 120mm and Inner dia 103.50mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete.</p>	1 Mtr	254.00
		Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	254.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
552	ELEC-4.8.6	Supply and Transportation of Outer dia 160mm and Inner dia 136mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	376.00
553	ELEC-4.8.7	Supply and Transportation of Outer dia 180mm and Inner dia 152mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	494.00
554	ELEC-4.8.8	Supply and Transportation of Outer dia 200mm and Inner dia 170mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II with all accessories like couplers, bends, end caps, Ts etc., complete. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 Mtr	576.00
	4.9	CABLE TRAYS		
555	ELEC-4.9.1	Supply and Installation of 600mm x 75mm x 2mm thick hot dip GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	1430.00
556	ELEC-4.9.2	Supply and Installation of 600mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	1056.00
557	ELEC-4.9.3	Supply and Installation of 450mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	930.00
558	ELEC-4.9.4	Supply and Installation of 300mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	798.00
559	ELEC-4.9.5	Supply and Installation of 150mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	440.00
560	ELEC-4.9.6	Supply and Installation of 150mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	220.00
561	ELEC-4.9.7	Supply and Installation of 300mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 Mtr	330.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
562	ELEC-4.9.8	Supply and Installation of 600mm x 75mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete. Note: Perforated cable trays provided without cover 30% may be deducted from above rates.	1 Mtr	605.00
<b>SECTION - 5</b>				
<b>5.1 FANS</b>				
563	ELEC-5.1.1	Supply of 48" (1200mm) 5 star rated Sweep ISI mark Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator. Makes : Crompton / Bajaj / Orient	1 No	1855.00
564	ELEC-5.1.2	Supply of 48" (1200mm) Sweep 5 Star rated Ceiling Fan without Regulator. Makes : Crompton HS Decora / Bajaj Regal star / Havells Fusion 50 / Orient Summer Crown	1 No	2280.00
565	ELEC-5.1.3	Supply of 56" (1400mm) Sweep Ceiling Fan as per IS 374 - 1979 and, with double ball bearings but without Regulator. Makes : Crompton / Bajaj Kassels 50 / Usha atom	1 No	1932.00
566	ELEC-5.1.4	Supply of 16" (400mm) Wall mounted Fan. Makes : Crompton SDX Block Gold / Bajaj Elite / Havells Swing Premia gold / Usha / Orient Wall 43.	1 No	2695.00
567	ELEC-5.1.5	Supply of 16" (400mm) Pedestal Fan. Makes : Crompton SDX Block Gold / Bajaj Spectrum / Havells Swing Remote / Usha / Orient.	1 No	3095.00
568	ELEC-5.1.6	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators Makes : Crompton / Havells Turbo Force / Orient / Almounard.	1 No	5805.00
569	ELEC-5.1.7	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators Makes : Crompton / Havells Turbo Force / Almounard.	1 No	7090.00
570	ELEC-5.1.8	Supply of 12" (300mm) Cabin fan. Makes : Crompton / Havells ciera / Orient AP12.	1 No	1835.00
571	ELEC-5.1.9	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	1465.00
572	ELEC-5.1.10	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	1315.00
573	ELEC-5.1.11	Supply of 12" (300mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark Makes : Crompton / Almounard / Havells Turbo Force.	1 No	3030.00
574	ELEC-5.1.12	Supply of 15" (375mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes : Crompton / Almounard / Havells Turbo Force	1 No	3575.00
575	ELEC-5.1.13	Supply of 18" (450mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes : Crompton / Almounard / Havells Turbo Force	1 No	4670.00
<b>5.2 WATER HEATERS</b>				

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
576	ELEC-5.2.1	Supply, Transportation and fixing of storage / Pressure type Vertical / Horizontal 230/250V single phase 2000watts ISI mark 5 Star rated water heater with SS tank and ABS plastic body of 15 Ltrs capacity to withstand up to 6.5 bar of water pressure including all standard accessories and dead weight pressure reducing valve on out let side, including cost of 2 Nos SS flexible braided pipe, testing and all labour charges etc., complete.		
		Makes : Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / AO Smith	1 No	9579.00
577	ELEC-5.2.2	Supply, Transportation and fixing of storage / Pressure type Vertical / Horizontal 230/250V single phase 2000watts ISI mark 5 Star rated water heater with SS tank and ABS plastic body of 25 Ltrs capacity to withstand up to 6.5 bar of water pressure including all standard accessories and dead weight pressure reducing valve on out let side, including cost of 2 Nos SS flexible braided pipe, testing and all labour charges etc., complete.		
		Makes : Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / AO Smith	1 No	11227.00
	<b>5.3</b>	<b>ACCESSORIES FOR WATER HEATERS</b>		
578	ELEC-5.3.1	Heating element of 1.5 / 2.0 / 3.0 KW.	1 No	412.00
579	ELEC-5.3.2	Supply of thermostat with range 30 <sup>0</sup> to 90 <sup>0</sup> C.Adjustable and suitable for 25 to 50 Ltrs. Capacity.	1 No	284.00
580	ELEC-5.3.3	Supply of pressure release valve for water heater of 15 to 50 Ltrs.capacity.	1 No	284.00
581	ELEC-5.3.4	Flexible Nylon / PVC Metallic hose pipe	1 No	170.00
	<b>5.4</b>	<b>STARTERS FOR MOTORS</b>		
582	ELEC-5.4.1	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS enclouser comprising of contactor with bi-metalic relay with necessary push buttons, etc., complete.		
		Makes: Siemens / Crompton / L&T / BCH.	1 No	780.00
583	ELEC-5.4.2	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil and overload protection with necessary materials, etc., complete suitable upto 7.5.HP.		
		Makes: Siemens / Crompton / L&T / BCH.	1 No	1450.00
584	ELEC-5.4.4	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil, overload protection and single phase preventor , etc., complete suitable upto 10.0.HP.		
		Makes: Siemens / Crompton / L&T / BCH.	1 No	2490.00
	<b>5.5</b>	<b>SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS</b>		
585	ELEC-5.5.1	Supply and Transportation of 0.75HP 8 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well.		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	14700.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	14000.00
586	ELEC-5.5.2	Supply and Transportation of 1.00HP 10 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	16800.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	16000.00
587	ELEC-5.5.3	Supply and Transportation of 1.00HP 15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	17325.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	16500.00
588	ELEC-5.5.4	Supply and Transportation of 1.50HP 21 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	21000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	20000.00
589	ELEC-5.5.5	Supply and Transportation of 2.00HP 25 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	25200.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	24000.00
	<b>5.6</b>	<b>THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.</b>		
590	ELEC-5.6.1	Supply and Transportation of 3.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	31500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	28350.00
591	ELEC-5.6.2	Supply and Transportation of 5.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	35500.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	319500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
592	ELEC-5.6.3	Supply and Transportation of 5.00HP Star rated 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	39900.00
			1 No	35910.00
593	ELEC-5.6.4	Supply and Transportation of 7.5.00HP Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	39300.00
			1 No	35370.00
594	ELEC-5.6.5	Supply and Transportation of 7.5HP Star rated 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	43500.00
			1 No	39150.00
595	ELEC-5.6.6	Supply and Transportation of 7.5HP Star rated 20-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	44600.00
			1 No	40140.00
596	ELEC-5.6.7	Supply and Transportation of 10.00HP, Star rated 5-10 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	46000.00
			1 No	41400.00
597	ELEC-5.6.8	Supply and Transportation of 10 HP 5 Star rated, 12-16 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	47500.00
			1 No	42750.00
598	ELEC-5.6.9	Supply and Transportation of 10 HP 5 Star rated,20-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	54000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	48600.00
599	ELEC-5.6.10	Supply and Transportation of 12.5HP 5 Star rated 8-12 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	46000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	41400.00
600	ELEC-5.6.11	Supply and Transportation of 12.5HP 5 Star rated 16-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	56000.00
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	50400.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	50400.00
601	ELEC-5.6.12	Supply and Transportation of 15HP 5 Star rated 8-12 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	60000.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	54000.00
602	ELEC-5.6.13	Supply and Transportation of 12.5HP 5 Star rated 16-24 Stage Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	62000.00
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	55800.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	55800.00
	<b>5.7</b>	<b>SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS.</b>		
603	ELEC-5.7.1	Supply and Transportation of 1.00HP Single phase open well ISI submersible motor pumpset. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	11550.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	11000.00
604	ELEC-5.7.2	Supply and Transportation of 1.50HP Single phase open well ISI submersible motor pumpset. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	13125.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	12500.00
605	ELEC-5.7.3	Supply and Transportation of 3.00HP Single phase open well ISI submersible motor pumpset. Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	17850.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	17000.00
	<b>5.8</b>	<b>THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS.</b>		
606	ELEC-5.8.1	Supply and Transportation of 3.00HP Three phase open well ISI submersible motor pumpset.(65x50) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	17850.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	17000.00
607	ELEC-5.8.2	Supply and Transportation of 5.00HP Three phase open well ISI submersible motor pumpset.(75x65) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	22050.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	21000.00
608	ELEC-5.8.3	Supply and Transportation of 7.50HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	26250.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	25000.00
609	ELEC-5.8.4	Supply and Transportation of 10.00HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	33600.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	32000.00
	<b>5.9</b>	<b>SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.</b>		
610	ELEC-5.9.1	Supply and Transportation of 0.5HP Single phase, 2880 RPM 50 Hz ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	5145.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	4900.00
611	ELEC-5.9.2	Supply and Transportation of 1.0HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	7455.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	7100.00
612	ELEC-5.9.3	Supply and Transportation of 1.5HP Single phase ISI Mono block CI body motor pumpset (32x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	9975.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	9500.00
613	ELEC-5.9.4	Supply and Transportation of 1.02HP Single phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	12600.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	12000.00
614	ELEC-5.9.5	Supply and Transportation of 2.00HP Three phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	14700.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	14000.00
615	ELEC-5.9.6	Supply and Transportation of 3.00HP Three phase ISI self priming Mono block IP44 motor pumpset (50x50mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	19950.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	19000.00
616	ELEC-5.9.7	Supply and Transportation of 5.00HP Three phase ISI self priming Mono block IP44 motor pumpset (80x80mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha		
		Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha	1 No	24150.00
		Makes: Varuna / Flowell / Waterman / Techno / Mahavir / unitek / Fitwell / Lubi / Falcon / Sterling / Ellen / Karvel / LPS / Varsha.	1 No	23000.00

#### 5.10 CONTROL PANEL BOARD FOR MOTORS

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
617	ELEC-5.10.1	Supply and Transportation of control panel for single phase submersible motors up to 3 HP @ 220V 50Hz operating range between 80 to 240V including supply and fixing of Direct - on - Line LTLK / SIEMENS / CROMPTON make Volt meter and Ammeter with starting and running capacitors assembled with ISI mark contactors and fitted with Legrand make ISI mark MCB etc., complete.	1 No	4800.00
618	ELEC-5.10.2	Supply and Transportation of control panel for three phase submersible motors up to 5 HP @ 415V 50Hz operating fitted with supply and fixing of Direct - on - Line LTLK /BCH/ SIEMENS / CROMPTON make, 0-500V Volt meter and 0-30A Ammeter, Indication lamps, selector switches, CTS, 32A TP MCB, Single phase preventor,suitable contactor to with stand low voltage pick up and high voltage resistant, with ISI marked capacitors assembled with ISI mark contactors and fitted with Legrand make ISI mark MCB etc., complete.	1 No	7500.00
619	ELEC-5.10.3	Supply and Transportation of control panel for three phase submersible motors above 5 HP up to 7.5 HP @ 415V 50Hz operating fitted with supply and fixing of Direct - on - Line LTLK /BCH/ SIEMENS / CROMPTON make, 0-500V Volt meter and 0-30A Ammeter, Indication lamps, selector switches, CTS, 32A TP MCB, Single phase preventor,suitable contactor to with stand low voltage pick up and high voltage resistant, with ISI marked capacitors assembled with ISI mark contactors and fitted with Legrand make ISI mark MCB etc., complete.	1 No	9000.00
620	ELEC-5.10.4	Supply and Transportation of control panel for three phase submersible motors above 7.5 HP to 12.5 HP @ 415V 50Hz operating fitted with supply and fixing of Direct - on - Line LTLK /BCH/ SIEMENS / CROMPTON make, 0-500V Volt meter and 0-30A Ammeter, Indication lamps, selector switches, CTS, 32A TP MCB, Single phase preventor,suitable contactor to with stand low voltage pick up and high voltage resistant, with ISI marked capacitors assembled with ISI mark contactors and fitted with Legrand make ISI mark MCB etc., complete.	1 No	16000.00

**Note: If it is Out door panel add 10% extra on above.**

#### 5.11 UPVC PIPES AND FITTINGS

621	ELEC-5.11.1	Supply and delivery of uPVC Raising Column Pipes for submersible motors with both ends square threaded, with rubber 'O' rings with smooth inner surface which can take the minimum load of 2100 to 4000 Kgs weights. (Weight of the = Pump + Pipes + Water in Space) Makes : Ashirvad / Finolex / Waterflo / Apollo.		
	a	Nominal diameter of Standard 42 / 32mm uPVC pipe cable with standing upto 20 Kgs / CM2 upto 200 Mts	1 Mtr	148.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	b	Nominal diameter of Standard 48 / 40mm uPVC pipe cable with standing upto 20 Kgs / CM2 upto 200 Mts	1 Mtr	180.00
	c	Nominal diameter of Standard 60/50 mm uPVC pipe cable with standing upto 20 Kgs / CM2 upto 200 Mts	1 Mtr	260.00
	d	Nominal diameter of Standard 75/65 mm uPVC pipe cable with standing upto 20 Kgs / CM2 upto 200 Mts	1 Mtr	350.00
	e	Nominal diameter of Standard 88/80 mm uPVC pipe cable with standing upto 20 Kgs / CM2 upto 200 Mts	1 Mtr	500.00
622	ELEC-5.11.2	<b>Suitable heavy duty couplings for standard pipes</b>		
	a	Nominal diameter of heavy duty couplings 42/32 mm uPVC pipe (27 Kgs / CM 2 ) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1 Mtr	40.00
	b	Nominal diameter of heavy duty couplings 48/40 mm uPVC pipe (27 Kgs / CM 2 ) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1 Mtr	60.00
	c	Nominal diameter of heavy duty couplings 60/50 mm uPVC pipe (27 Kgs / CM 2 ) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1 Mtr	65.00
	d	Nominal diameter of heavy duty couplings 75/65 mm uPVC pipe (27 Kgs / CM 2 ) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1 Mtr	75.00
	e	Nominal diameter of heavy duty couplings 88/80 mm uPVC pipe (27 Kgs / CM 2 ) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1 Mtr	90.00
623	ELEC-5.11.3	<b>Supply and Delivery of CI Adopter Assembly</b> Makes : Ashirvad / Finolex / Waterflo / Apollo.		
	a	1 1/2" (48/40mm)	1 No	650.00
	b	2" (60/50mm)	1 No	850.00
	c	2 1/2" (75/65 mm)	1 No	1100.00
624	ELEC-5.11.4	<b>Supply and Delivery of pump guard assembly with 2Nos SS Powder coated flange and 2Nos SS Rods with nut and colter pin.</b> Makes : Ashirvad / Finolex / Waterflo / Apollo.		
	a	1 1/2" (48/40mm)	1 No	400.00
	b	2" (60/50mm)	1 No	450.00
	c	2 1/2" (75/65 mm)	1 No	600.00
		(88/80 mm)	1 No	900.00
	<b>5.12</b>	<b>REPAIRS TO MOTORS AND REWINDING, BEARINGS</b>		
625	ELEC-5.12.1	Bearing of approved make for electric motor single phase / 3 phase AC upto 1 HP of all types.	1 No	188.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
626	ELEC-5.12.2	Bearing of approved make for electric motor single phase / 3 phase AC upto 2 to 3 HP of all types.	1 No	243.00
627	ELEC-5.12.3	Bearing of approved make for electric motor single phase / 3 phase AC upto 5 to 7.5 HP of all types.	1 No	322.00
628	ELEC-5.12.4	Bearing of approved make for electric motor single phase / 3 phase AC upto 10 to 12.5 HP of all types.	1 No	335.00
629	ELEC-5.12.5	Bearing of approved make for electric motor single phase / 3 phase AC upto 15 to 20 HP of all types.	1 No	514.00
630	ELEC-5.12.6	Bearing of table / cabin / pedestal / ceiling / exhaust fan complete with alignment of shaft and tested.	1 No	89.00
631	ELEC-5.12.7	Bearing of bush / rubber / ring washers complete with alignment of shaft and tested.	1 No	42.00
632	ELEC-5.12.8	Capacitor of table / cabin / pedestal / ceiling / exhaust fan complete.	1 No	40.00
633	ELEC-5.12.9	EICHER model 11:10 with 100 H.P. direct injection 4 stroke engine with one spare wheel 3800 mm cabin high deck with jangla (full body) (4 wheeler) for generator	1 No	636056.00
	<b>5.13</b>	<b>ACCESSORIES OF MOTORS</b>		
634	ELEC-5.13.1	Supply, Transportation and fixing of suitable pump guard set (2Nos SS), Flanges set (2 Nos) to protect and safe guard the pump and Motor from vibrations while starting and switching of the pumpset.		
	a	OD 42mm	1 No	380.00
	b	OD 48mm	1 No	450.00
	c	OD 60mm	1 No	650.00
	d	OD 75mm	1 No	780.00
	e	OD 80mm	1 No	1000.00
635	ELEC-5.13.2	Supply, Transportation and fixing of seamless cast iron adopter assembly (Two Nos at bottom of the pipe to coupling to the pump set and the other at top end of the pipes) for installing the pump set with pipes including cost and conveyance of all materials, taxes etc., complete.		
	a	OD 42mm	1 No	560.00
	b	OD 48mm	1 No	650.00
	c	OD 60mm	1 No	850.00
	d	OD 75mm	1 No	1100.00
	e	OD 88mm	1 No	1300.00
636	ELEC-5.13.3	Supply, Transportation and fixing of following galvanised GI bends heavy duty with threaded at both ends for installing the pump set including cost and conveyance of all materials, taxes etc., complete.		
	a	50mm dia 90 degree bend with length of 20cm (Center to face)	1 No	184.00
	b	65mm dia 90 degree bend with length of 20cm (Center to face)	1 No	252.00
	c	80mm dia 90 degree bend with length of 20cm (Center to face)	1 No	315.00
637	ELEC-5.13.4	Supply, Transportation and fixing of following MS threaded Flanges 2 Nos with nuts and bolts including cost and conveyance of all materials, taxes etc., complete.		
	a	50mm dia MS flanges set (2 Nos) 150mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1 No	240.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	<b>b</b>	65mm dia MS flanges set (2 Nos) 165mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1 No	340.00
	<b>c</b>	80mm dia MS flanges set (2 Nos) 175mm dia OD, 12mm thick each flange with required dia bolts and nuts.	1 No	360.00
638	ELEC-5.13.5	Supply, Transportation and fixing of MS Clamp set with nuts and bolts.		
	<b>a</b>	50mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1 No	300.00
	<b>b</b>	65mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1 No	315.00
	<b>c</b>	80mm dia, 450mm length, 12mm thickness and 75mm wide with required nuts and bolts.	1 No	420.00
	<b>d</b>	150mm dia galvanised bore cover with bolts and nuts.	1 No	158.00
	<b>e</b>	150mm dia stainless steel bore cover with bolts and nuts.	1 No	315.00
	<b>6.1</b>	<b>AIR CONDITIONERS</b>		
639	ELEC-6.1.1	Supply of split AC unit with high wall mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units with 3.5 mts of copper piping, insulation kit and 4 mts of 3 core copper flexible chord , built-in stabilizer (Voltage range 160- 264 volts) and cordless remote control		
		<b>1.5TR Split ACs</b>		
	<b>a</b>	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above of makes Mitsubishi Heavy	1 No	42990.00
	<b>b</b>	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above of makes Daikin FTE-M or N Sereis / Carrier Novello / Blue Star 3HW18VB1 / Hitachi (Kazi+) / Voltas 183 PX-R.	1 No	39600.00
	<b>c</b>	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above of makes Mitsubishi Heavy	1 No	51886.00
	<b>d</b>	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32 / R-410A with COP not less than 3.6 w/w makes Daikin FTF50QRV16 or its equivalent model of Carrier / Blue Star 3HU34JCFU.	1 No	46990.00
		<b>1.8TR-2.1TR Split ACs</b>		
	<b>e</b>	1.8 / 2.0 TR 3 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-32 / R-22 with COP not less than 3.25 w/w makes Daikin FTC60QRV16 or its equivalent make of Carrier / Blue Star	1 No	50250.00
	<b>f</b>	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

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	g	2.0 TR 5 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 makes Carrier or equivalent in Blue Star / Voltas.	1 No	54500.00
	h	1.8 / 2.0 TR 4 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 / R-32 with COP not less than 3.4 w/w makes Daikin FTF60QRV16 or its equivalent of Mitsubishi	1 No	59990.00
	<b>6.2</b>	<b>INVERTER SPLIT AC UNITS (COOLING ONLY)</b>		
640	ELEC-6.2.1	Supply of INVERTER Model Cool type split AC unit with high wall mounted Single Split indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing Heat cool dehumidifying air circulating and filtering with cooling and condensing units with 3.5 mts of copper piping, insulation kit and 4 mts of 4 core copper flexible chord , built-in stabilizer (Voltage range 160- 264 volts) and cordless remote control		
	a	1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410 makes O General model No. ASGA18JCC / Toshibha Model No. RAS-18N3KCV-IN	1 No	53550.00
	b	1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410 / R-32 with COP not less than 3.8 w/w makes 'Daikin Model No. FTKM50QRV16 or its equivalent of Mitsubishi	1 No	58990.00
	c	1.8 TR capable of delivering 21600 BTU/hr and above with operating on refrigerant R-410 / R-32 with COP not less than 3.6 w/w makes Daikin FTKM60QRV16 or its equivalent of Thosibha	1 No	65910.00
	d	2.0 TR capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410 makes 'O' General Model No. ASGA24JCC / Blue Star Model No. HNHW22CBF	1 No	69295.00
	<b>6.3</b>	<b>CASSETTE TYPE AC UNITS</b>		
641	ELEC-6.3.1	Supply of Cassette type AC unit with ceiling mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with Wireless remote controller, but without refrigerent piping and cable.		
	a	Single Phase R-22 Makes: 2.2TR Daikin FHC28EXVI / R28CGXVI 2.0TR 'O' Genral AUG25AB	1 No	82000.00
	b	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
	c	3.5TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: 'O' General	1 No	137940.00
	d	3.3TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: Daikin FHC40EXVI / R40DGXY1	1 No	131800.00
	e	3.5TR Three Phase Makes: Carrier / Blue Star	1 No	125000.00
	f	4.1TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-22 Makes: Daikin FHC50EXV1 / R50DGXY1 / 'O' Genral	1 No	150970.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	g	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-22 Makes: Carrier / Blue Star	1 No	115000.00
	h	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-410 Makes: Carrier / Blue Star.	1 No	116300.00
	i	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-410 Makes: Toshiba / O General (Inverter Technology)	1 No	155170.00
	j	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-410 Makes: Carrier / Blue Star	1 No	133000.00
	k	4.0TR Three Phase capable of delivering 48000 BTU/hr and above with operating on refrigerant R-410 Makes: Toshiba / O General (Inverter Technology)	1 No	168190.00
	<b>6.4</b>	<b>TOWER MODEL TYPE AC UNITS</b>		
642	ELEC-6.4.1	Supply of Slim line / Tower Model/Verticoool type split AC unit with indoor unit and floor mounted outdoor condensing unit Hermetically sealed Scroll compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with cordless remote control		
	a	3.0TR Three Phase capable of delivering 36000 BTU/hr and above with operating on refrigerant R-22 Makes: Voltas	1 No	80000.00
	b	3.5TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: Blue Star	1 No	82500.00
	<b>6.5</b>	<b>INVERTOR MODEL HEAT COOL SPLIT AC'S</b>		
643	ELEC-6.5.1	Supply, transportation of 1.5 TR capacity ( HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of capable of performing of cooling capacity 5.25KW and above and heating capacity 5.28 KW and above, Running current in cooling mode less than 7.19 Amps, & in Heating mode less than 6.53 Amps , Power Consumption in Cooling mode not more than 1635 W and in heating mode not more than 1490 W co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.54,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 FTYN50JXVI or its equivalent model of Toshiba / Mitsubuishi / O General.	1 No	58380.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
644	ELEC-6.5.2	Supply, transportation of 1.8 / 2.0 TR capacity , ( HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of cooling capacity 6.01KW and above and heating capacity 6.15 KW and above, Running current in cooling mode less than 8.26 Amps, & in Heating mode less than 7.99 Amps , Power Consumption in Cooling mode not more than 1870W and in heating mode not more than 1800 W, co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.40, dehumidifying Aircirculating and filtering with cooling and condensing unit duly insulated and 3 core copper flexible chord of required length etc with 2 years comprehensive warranty and 5 years warranty on compressor etc complete. Make: Diakin Model No FTYN60JXVI or its equivalent model of Toshiba / Mitsubishi / O General	1 No	68838.00
	<b>6.6</b>	<b>REPAIRS TO AIR CONDITIONERS</b>		
645	ELEC-6.6.1	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1 Set	950.00
646	ELEC-6.6.2	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1. 3/4" x 3/8" 2. 5/8" x 1/4" 3. 1/2" x 1/4"	1 Mtr	900.00
647	ELEC-6.6.3	Supply of 1.0 / 1.5 Ton brand new Rotary type sealed compressor.	1 No	8150.00
648	ELEC-6.6.4	Supply of 2.0 Ton brand new Rotary type sealed compressor.	1 No	9250.00
649	ELEC-6.6.5	Multi speed Fan Motor suitable for 1.0 / 1.5 / 2.0 Ton Window A.C.Unit of makes Crompton / AU.	1 No	1590.00
650	ELEC-6.6.6	Fan motor capacitor 6 mfd by new capacitor for A.C machine of 1.0 1.5 / Ton Capacity.	1 No	156.00
651	ELEC-6.6.7	Thermostat switch suitable for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1 No	410.00
652	ELEC-6.6.8	Starting capacitor of 80 to 120 mfd. by new approved make capacitor suitable for compressor motor of 1.0 / 1.5 Ton A.C. Unit.	1 No	200.00
653	ELEC-6.6.9	Running capacitor of 36 mfd by new approved make capacitor suitable for compressor motor of 1.0 / 1.5 Ton A.C.Unit.	1 No	242.00
654	ELEC-6.6.10	Relay by approved make having pickup voltage 220 Volts and dropout voltage 120 Volts suitable for 1.0 / 1.50 Ton A.C. Unit.	1 No	225.00
655	ELEC-6.6.11	Filter and capillary tube including welding etc., complete for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1 No	485.00
656	ELEC-6.6.12	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1 No	225.00
657	ELEC-6.6.13	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1 No	475.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
658	ELEC-6.6.14	Rewiring the entire Window type 1.50 Ton A.C.unit with 2.5 Sq.mm Flexible copper cable and putting the same in working conditions.	1 No	325.00
659	ELEC-6.6.15	Complete servceing 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
660	ELEC-6.6.16	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1 No	560.00
661	ELEC-6.6.17	Grill of 1.0 / 1.5 ton A.C. Machine (for assembled Units).	1 No	427.00
662	ELEC-6.6.18	Grill of 1.0 / 1.5 ton A.C. Machine of branded units.	1 No	1700.00
663	ELEC-6.6.19	Rotary / Selector switch for window AC.	1 No	115.00
664	ELEC-6.6.20	Flushing the line, leak testing, leak stopping, vaccumming, dehydrating and charging the gas in the refrigeration system for 1.0/ 1.5 /2.0 Ton Window A.C.Unit.	1 No	1500.00
665	ELEC-6.6.21	Flushing the line, leak testing, leak stopping, vaccumming, dehydrating and charging the gas in the refrigeration system for 1.5 /2.0 Ton Split A.C.Unit.	1 No	2100.00
666	ELEC-6.6.22	Spray painting of Refrigerator using good quality paint after scraping the surface etc.	1 No	720.00
667	ELEC-6.6.23	Sealed compressor of 1/8 HP suitable for 165 to 185 Ltrs. Capacity Refrigerator.	1 No	3100.00
668	ELEC-6.6.24	Sealed compressor of 1/6 HP suitable for 285 / 310 Ltrs. Capacity Refrigerator.	1 No	3750.00
669	ELEC-6.6.25	Supply of fan motor by new 1/10 to 1/12 H.P 1250 RPM fan motor for Water Cooler of 80-150 Ltrs.	1 No	1590.00
670	ELEC-6.6.26	Gun metal Bush for fan motor.	1 No	125.00
671	ELEC-6.6.27	Resistance type regulator for ceiling fans 900/1200/1400mm sweep complete erected on existing board.	1 No	40.00
672	ELEC-6.6.28	Installation of Split Air Conditioners.	1 No	1500.00
673	ELEC-6.6.29	Removing of existing Split Air Conditioners without damaging to copper pipe.	1 No	400.00
674	ELEC-6.6.30	Installation of Cassette type Split Air Conditioners.	1 No	3000.00
675	ELEC-6.6.31	Installation of Tower type Split Air Conditioners.	1 No	2500.00
676	ELEC-6.6.32	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of ductable AC unit.	1 Set	1800.00
677	ELEC-6.6.33	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1.7/8" x 1/2"	1 Mtr	1500.00
678	ELEC-6.6.34	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete. 1. 1 1/8" x 5/8"	1 Mtr	1750.00

## 6.7 EVAPORATIVE AIR COOLING SYSTEM

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
679	ELEC-6.7.1	Supply of single phase evaporative air cooling unit with a capacity of 8000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, single phase 1.20 KW motor axial type fan with variable speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1 No	110000.00
680	ELEC-6.7.2	Supply of single phase evaporative air cooling unit with a capacity of 11000 - 12000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, single phase 1.20 KW / 1.5 KW motor axial type fan with variable speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1 No	130000.00
681	ELEC-6.7.3	Supply of three phase evaporative air cooling unit with a capacity of 17000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 60W, three phase, 3.0 KW motor, axial type fan with 2 speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze / Breeze Air	1 No	180000.00
682	ELEC-6.7.4	Supply, Fabrication and erection of GI ducting of 24 guage with necessary GI / MS supports. Makes : Tata / Zindal	1 Sft	82.00
683	ELEC-6.7.5	Supply and fixing of 40mm thick thermocole insulation of 16 kg density with GI mesh and 12mm thick cement mortar plastering for out door unit.	1 Sft	75.00
684	ELEC-6.7.6	Supply and fixing of 40mm thick glasswool of 24 kg density with alluminium foil insulation for indoor duct.	1 Sft	60.00
685	ELEC-6.7.7	Supply and fixing of alluminium powder coated grill with volume control dampers.	1 Sft	675.00
686	ELEC-6.7.8	Supply and fixing of angular iron frame with 2 coats of zincromat red oxide for installation of air cooling unit.	1 No	4800.00
687	ELEC-6.7.9	Installation and commissioning charges for air cooling unit.	1 No	4000.00
	<b>6.8</b>	<b>STABILIZERS</b>		
688	ELEC-6.8.1	Supply of 0.5 KVA Stabilizer Makes : V-Guard / Real Guard / Uni Stab / ITL.	1 No	990.00
		Make : Keeline / Soft Line / Capri.	1 No	810.00
689	ELEC-6.8.2	Supply of 1.0 KVA Stabilizer. Makes : V-Guard / Real Guard / Uni Stab / ITL.	1 No	1625.00
		Make : Keeline / Soft Line / Capri.	1 No	1454.00
690	ELEC-6.8.3	Supply of 3.0 KVA Stabilizer Makes : V-Guard / Real Guard / Uni Stab / ITL.	1 No	2025.00
		Make : Keeline / Soft Line / Capri.	1 No	1863.00
691	ELEC-6.8.4	Supply of 4.0 KVA Stabilizer Makes : V-Guard / Real Guard / Uni Stab / ITL.	1 No	2700.00
		Make : Keeline / Soft Line / Capri.	1 No	2565.00
692	ELEC-6.8.5	Supply of 5.0 KVA Stabilizer Makes : V-Guard / Real Guard / Uni Stab / ITL.	1 No	3240.00
		Make : Keeline / Soft Line / Capri.	1 No	3083.00
	<b>7.1</b>	<b>SWAGED POLES / OCTOGONAL POLES, GARDEN POSTS AND ACCESSORIES</b>		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
693	ELEC-7.1.1	Fabrication, supply and transportation of all sizes swaged poles up to site confirming to IS 2713 / 1980 specifications. The pole should be painted with primary coat of red oxide and black bituminous paint up to ground level with base plate, including cost of all materials etc., complete.(Rate per K. G)	1 Kg	71.00
694	ELEC-7.1.2	Fabrication and Supply of M.S. Poles for garden posts with 'B' class 60.25mm outer dia with base plate and suitable pole cap including cost and conveyance of all material including fixing of luminaire and labour charges etc., complete. (Rate per K. G)	1 Kg	65.00
695	ELEC-7.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1 Kg	65.00
	<b>7.2</b>	<b>OCTOGONAL POLES</b>		
696	ELEC-7.2.1	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.50 Mtrs height Pole having dimensions Bottom 130 mm,. Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template.		
		Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA	1 No	11180.00
697	ELEC-7.2.2	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs height Pole having dimensions Bottom 155 mm,. Top 70mm with 3mm thick, base plate 260 x 260 x 16mm and 4 Nos of M24 x 750 long 'J' bolts along with template.		
		Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA	1 No	16509.00
698	ELEC-7.2.3	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 10 Mtrs height Pole having dimensions Bottom 175 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x16mm and 4 Nos of M24 x 750 long 'J' bolts along with template.		
		Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA	1 No	17850.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

699	ELEC-7.2.4	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 12 mtrs height Pole having dimensions Bottom 200mm, Top 90mm with 4mm thick, base plate 320 x320 x20mm and 4 Nos of M24 x 850 long 'J' bolts along with template.		
		Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA	1 No	26292.00
	<b>7.3</b>	<b>BRACKETS</b>		
700	ELEC-7.3.1	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1 No	1215.00
701	ELEC-7.3.2	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1 No	1604.00
702	ELEC-7.3.3	Fabrication, Transportation and supply of of 1.0mtrs sword type decorative Single arm bracket with dooms complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	3400.00
703	ELEC-7.3.3	Fabrication, Transportation and supply of of 1.5mtrs sword type decorative Single arm bracket with dooms complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	3800.00
704	ELEC-7.3.4	Fabrication, Transportation and supply of 1.5mtrs decorative galvanized Single arm bracket with PU paint complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	4500.00
705	ELEC-7.3.5	Fabrication, Transportation and supply of 1 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1 No	1500.00
706	ELEC-7.3.6	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.	1 No	2700.00
707	ELEC-7.3.7	Fabrication, Transportation and supply of of 1.0mtrs sword type decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	4000.00
708	ELEC-7.3.7	Fabrication, Transportation and supply of of 1.5mtrs sword type decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	4950.00
709	ELEC-7.3.8	Fabrication, Transportation and supply of 1.5mtrs decorative galvanized double arm bracket with PU paint complete with all accessories with MS galvanized 50mm dia Pipe.	1 No	8500.00

**7.4 HIGH MAST POLES**



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

- 710 ELEC-7.4.1 Fabrication, transportation and supply of 12 Mtrs Polygon High Mast with single section of 3mm thick of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 520mm dia 16mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity, suitable for 6 luminaires with GLS type aviation twin lamp.
- Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA 1 No 103354.00
- 711 ELEC-7.4.2 Fabrication, transportation and supply of 16 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick with GLS type aviation lamp of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 560mm dia 25mm thick with its accessories. Mast shall be in 2 sections and should be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp
- Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA 1 No 134879.00
- 712 ELEC-7.4.3 Fabrication, transportation and supply of 20 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick of Bottom 410mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 570mm dia 25mm thick with its accessories. Mast shall be in 2 sections and should be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp.
- Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA 1 No 168256.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

### 7.5 FEEDER PILLER BOX

713 ELEC-7.5.1 a Supply and fixing of suitable **out door** feeder piller box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 40A TP MCB, 6 Nos SP MCB's, **din channel**, 6 Sqmm 3 core copper cable for invidual light control, timer,contactor, connectors and provision for energy meter etc., complete for finished item of work including suitable angle iron stand.

1 No 28884.00

ELEC-7.5.1 b Supply and fixing of suitable out door feeder piller box of size made with 14 SWG CRCA sheet with double door arrangement, making powder coating after processing of 7 Tank process, lock and key, hinges, rubber gasket, danger board,suitable angle iron stand for mounting the feeder pillar with cement concrete, including Supply and fixing of Legrand / Schnieder make ----- As incomer, ----- Nos 6-32A SP MCB as out goings, indication lamps, din channel, 6 Sqmm 3 core copper cable for invidual light control, connectors, gland plates and provision for 3 phase energy meter etc., complete for finished item of work and suitable wiring provision for connecting the nature switch with following.

i 40A 4 Pole Isolator as incomer, 1 No 18060.00  
6 Nos 6-32A SP MCBs as out goings.

ii 63A, 4 Pole isolator as incomer, 1 No 18140.00  
6 Nos 6-32A SP MCBs as out goings.

iii 63A, 4 Pole isolator as incomer, 1 No 18773.00  
9 Nos 6-32A SP MCBs as out goings.

714 ELEC-7.5.2 a Supply and fixing of suitable feeder piller box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 63A TP MCB, 8 Nos SP MCB's, **din channel**, 6 Sqmm 3 core copper cable for invidual light control, connectors and provision for energy meter etc., complete for finished item of work.

1 No 31997.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

ELEC-7.5.2 b Supply and fixing of suitable out door feeder pillar box of size made with 14 SWG CRCA sheet with double door arrangement, making powder coating after processing of 7 Tank process, lock and key, hinges, rubber gasket, danger board, suitable angle iron stand for mounting the feeder pillar with cement concrete, including Supply and fixing of Legrand / Schnieder make ----- As incomer, ----- Nos 6-32A SP MCB as out goings, indication lamps, din channel, 6 Sqmm 3 core copper cable for invidual light control, connectors, gland plates and provision for 3 phase energy meter etc., complete for finished item of work and suitable wiring provision for connecting the nature switch with following.

i	40A -63A, 4 Pole MCB as incomer, 6 Nos 6-32A SP MCBs as out goings.	1 No	19200.00
ii	63A, 4 Pole MCB as incomer, 9 Nos 6-32A SP MCBs as out goings.	1 No	19728.00

#### 7.6 ERRECTION OF HIGH MAST POLES

715	ELEC-7.6.1	Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs high mast and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	28073.00
716	ELEC-7.6.2	Earth work excavation with a approximate quantity of 6.0 Cum for erection of 16 Mtrs high mast and refilling with a quantity of 0.65 Cum of PCC 1:4:8, 2.60 Cum M 20 grade concrete and (110 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	35794.00
717	ELEC-7.6.3	Earth work excavation with a approximate quantity of 7.0 Cum for erection of 20 Mtrs high mast and refilling with a quantity of 0.75 Cum of PCC 1:4:8, 3.60 Cum M 20 grade concrete and (140 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	45551.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
	<b>7.7</b>	<b>CONICAL POLES</b>		
718	ELEC-7.7.1	<p>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&amp;F of 1.0 mtrs C type decorative single arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work.</p> <p><b>Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA</b></p>	1 No	14580.00
719	ELEC-7.7.2	<p>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&amp;F of 1.5 mtrs C type decorative Double arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work.</p> <p><b>Makes: BAJAJ / VALMONT / TRANSRAIL / SKIPPER / UTKARSH / LAASMA</b></p>	1 No	16740.00
		<b>DECORATIVE DRAGON TYPE BRACKET WITH POLE</b>		
720	ELEC-7.7.3	<p>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 <b>9 Mtrs Mounting height Pole</b> having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including <b>Supply of 1.5M Dragon type decorative galvanised double arm with PU Painted bracket.</b></p> <p><b>Makes: VALMONT</b></p>	1 No	29875.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
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721	ELEC-7.7.4	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 <b>9 Mtrs Mounting height Pole</b> having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including <b>Supply of 1.5M Dragon type decorative galvanised Single arm with PU Painted bracket.</b> <a href="#">Makes: VALMONT</a>	1 No	25644.00
722	ELEC-7.7.5	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 <b>9 Mtrs Mounting height Pole</b> having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including <b>Supply of 1.5M Dragon type decorative Double arm Galvanised finish bracket.</b> <a href="#">Makes: VALMONT</a>	1 No	25604.00
723	ELEC-7.7.6	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 <b>9 Mtrs Mounting height Pole</b> having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including <b>Supply of 1.5M Dragon type decorative Single arm Galvanised finish bracket.</b> <a href="#">Makes: VALMONT</a>	1 No	22901.00
724	ELEC-7.7.7	Fabrication, Transportation and supply of hot-dip galvanized Curved 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 <b>9 Mtrs Mounting height Curved Pole</b> having dimensions Bottom 180 mm,. Top 85mm with 3mm thick, base plate 400 x 400 x 20mm and 4 Nos of M24 x 750 long 'J' bolts along with templates. Including Supply of 0.2M long Single arm bracket. <a href="#">Makes: VALMONT</a>	1 No	24995.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

725	ELEC-7.7.8	Fabrication, Transportation and supply of hot-dip galvanized PU Paint finish Curved Octagonal 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 Mounting height Curved Pole having dimensions Bottom 180 mm,. Top 85mm with 3mm thick, base plate 400 x 400 x 20mm and 4 Nos of M24 x 750 long 'J' bolts along with templates. Including Supply of 0.2M long Single arm bracket.	1 No	33886.00
		<a href="#">Makes: VALMONT</a>		
	<b>7.8</b>	<b>THERMO PLASTIC POLE BOXES</b>		
726	ELEC-7.8.1	Supply of following sizes thermo plastic pole boxes IP 65 protection. <a href="#">Make : Hensel / Sintex / Sadhrish</a>		
	a	<a href="#">200X150X100</a>		800.00
	b	<a href="#">250X200X120</a>		1000.00
	c	<a href="#">300X150X170</a>		1159.00
	d	<a href="#">300X200X125</a>		1250.00
	e	<a href="#">300X300X170</a>		1663.00
	f	<a href="#">400X300X200</a>		1800.00
	g	<a href="#">300X450X170</a>		2266.00
	h	<a href="#">490X390X250</a>		2500.00
	i	<a href="#">300X600X170</a>		2689.00
	<b>7.9</b>	<b>FOUNDATION AND ERRECTION CHARGES OF POLES</b>		
727	ELEC-7.9.1	Erection charges for 7.50 Mts long Octagonal pole on bridge kerb portion (R.C.C). with 4 Nos 8" Anchor bolts/ M20xsuitable "J" type bolts etc duly drilling holes to RCC slab and with V.C.C. M.15 concrete for base concreting up to a height of 8" with necessary Reinforcement work etc. including cost and conveyance of all material and all labour charges etc. complete as directed by the department officers.	1 No	3200.00
728	ELEC-7.9.2	Foundation and erection charges with special T&P, for 7.50 Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtrx0.45Mtrsx1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1 No	4500.00
729	ELEC-7.9.3	Foundation and erection charges with special T&P, for 9.00Mtrs / 10Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.60Mtrx0.60Mtrsx1.40 Mtr size M20 cc work vibrated concreting mixing with necessary steel (15kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1 No	6000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
730	ELEC-7.9.4	Foundation and erection charges with special T&P, for 12Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtrx0.67Mtrsx1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.	1 No	7500.00
<b>7.10 G R P POLES</b>				
731	ELEC-7.10.1	Supply and transportation of following glass reinforced polymer (GRP) composite type Conical pole with single arm bracket of length 1Mtr and internal junction box including labour charges etc., complete. Makes: Bajaj / Kemrock / Sumip.		
	a	3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV	1 No	8908.00
	b	4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV	1 No	11168.00
	c	6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV	1 No	14275.00
	d	8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV	1 No	18795.00
	e	10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV	1 No	27268.00
732	ELEC-7.10.2	Supply and transportation of base bracket suitable for Makes : Bajaj / Kemrock / Sumip.		
	a	For 3.00 Mtrs Pole	1 No	1650.00
	b	For 4.00 Mtrs Pole	1 No	1650.00
	c	For 6.00 Mtrs Pole	1 No	1980.00
	d	For 8.00 Mtrs Pole	1 No	2310.00
	e	For 10.00 Mtrs Pole	1 No	5500.00
<b>7.11 CONTROL PANEL BOARD</b>				
733	ELEC-7.11.1	Fabrication and erection of 14SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq Mtr	4340.00
734	ELEC-7.11.2	Fabrication and erection of 16 SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq Mtr	4030.00
735	ELEC-7.11.3	Fabrication and erection of 18SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq Mtr	3565.00
<b>7.12 METERING EQUIPMENT</b>				
736	ELEC-7.12.1	Supply and erection of 0-415V volt Digital meter on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	2500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
737	ELEC-7.12.2	Supply and erection of 0-415V volt Analog meter on existing panel board including connections etc., complete.  MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	450.00
738	ELEC-7.12.3	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Digital Ammeter of size 96x96mm on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	2500.00
739	ELEC-7.12.4	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Analog Ammeter of size 96x96mm on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	450.00
740	ELEC-7.12.5	Supply and erection of Digital frequency meter on existing panel board including connections etc., complete.  MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	4556.00
741	ELEC-7.12.6	Supply and erection of Digital power factor meter, 3 phase, 4 wire balanced or unbalanced load 5A, 415V of size 96x96mm on existing box / panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	2700.00
742	ELEC-7.12.7	Supply and erection of L.T. 3phase Digital multifunction energy meter with 3 lines LCD display for measuring all the parameters (voltage / Current / Power / frequency / power factor / kw / kwh / KVAR/ KVARH/) on existing box panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / L&T / SEIMENS / HPL.	1 No	10023.00
743	ELEC-7.12.8	Supply and erection of selector switch for voltmeter / Ammeter on the existing panel including connections etc., complete. Makes : L&T / C&S / SALZAR / HPL MAKE.	1 No	175.00
743	ELEC-7.12.9	Supply and erection of LED indication lamps on the existing panel board. Makes : L&T / C&S / SALZAR / HPL MAKE.	1 No	135.00
744	ELEC-7.12.9	Supply and erection of push buttons on the existing panel board. Makes : L&T / C&S / SALZAR / HPL MAKE.	1 No	75.00
745	ELEC-7.12.10	Supply and erection of LT current transformer with bar primary 100/5A to 1000 / 5A ratio in the existing panel including connections etc., complete. MAKE : KAPPA	1 No	450.00
746	ELEC-7.12.11	Supply and fixing of single phase Electronic energy Meter, 240V AC, 50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board. Makes : CONZERVE / ELMEASURE / MECO / HPL / HAVELLS.	1 No	1050.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
747	ELEC-7.12.12	Supply and fixing of three phase Electronic energy Meter, 415V AC,50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board. <b>Makes : CONZERVE / ELMEASURE / MECO / HPL / HAVELLS.</b>	1 No	3037.00
748	ELEC-7.12.13	Supply and fixing of 8 Stage APFC Relay with connection etc complete. <b>Makes : L&amp;T / Siemens / EPCOS / Schneider / Elmeasure</b>	1 No	13600.00
748	ELEC-7.12.14	Supply and fixing of 14 Stage APFC Relay with connection etc complete. <b>Makes : L&amp;T / Siemens / EPCOS / Schneider / Elmeasure</b>	1 No	14872.00
748	ELEC-7.12.14	Supply and fixing of 5 KVAR Rating capacitor duty contactor <b>Makes : L&amp;T / Siemens / EPCOS / Meher</b>	1 No	1525.00
748	ELEC-7.12.14	Supply and fixing of 12.5 KVAR Rating capacitor duty contactor <b>Makes : L&amp;T / Siemens / EPCOS / Meher</b>	1 No	2100.00
748	ELEC-7.12.14	Supply and fixing of 15.0 KVAR Rating capacitor duty contactor <b>Makes : L&amp;T / Siemens / EPCOS / Meher</b>	1 No	2925.00
748	ELEC-7.12.14	Supply and fixing of 25.0 KVAR Rating capacitor duty contactor <b>Makes : L&amp;T / Siemens / EPCOS / Meher</b>	1 No	3795.00
749	ELEC-7.12.14	Supply and fixing of 50.0 KVAR Rating capacitor duty contactor <b>Makes : L&amp;T / Siemens / EPCOS / Meher</b>	1 No	10400.00
	<b>7.13</b>	<b>SUB STATION EQUIPMENT</b>		
750	ELEC-7.13.1	Carryout routine maintenance, servicing and testing of 630A to 1000A L.T.ACB by cleaning fixed contacts, moving contacts and arcchutes including servicing and putting the ACB in perfect working condition after detting all relay and ON, OFF mechanism etc done with only manufacturing companies	1 No	4000.00
751	ELEC-7.13.2	Carryout routine maintenance and servicing of LT.Cubical pannel board having approximately 15 to 22 Nos of switches cleaning with power brower and servicing the contacts, tightning the connection of incoming and outgoing cables, and clicking the operating machanism for smooth functioning of switches and putting them in smooth working condition.	1 No	2500.00
752	ELEC-7.13.3	Routine maintenance of transformer in operation covering insulation resistance oil, break down strength. Reconditioning / replacement of silicazel, cleaning of transformer and topping upto oil level if required (extra cost will be paid for oil).	1 No	4350.00
753	ELEC-7.13.4	Testing of Transformer oil for dielectric breakdown strength.	1 No	500.00
754	ELEC-7.13.5	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete.- Upto 315 KVA	1 No	2500.00

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1	2	3	4	7
755	ELEC-7.13.6	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete. -500 / 1000 KVA	1 No	3500.00
756	ELEC-7.13.7	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -Upto 315 KVA	1 No	750.00
757	ELEC-7.13.8	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -500 / 1000 KVA	1 No	1050.00
758	ELEC-7.13.9	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -Upto 315 KVA	1 No	300.00
759	ELEC-7.13.10	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -500 / 1000 KVA	1 No	550.00
760	ELEC-7.13.11	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. Upto 315 KVA	1 No	700.00
761	ELEC-7.13.12	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. 500 / 1000 KVA	1 No	1450.00
762	ELEC-7.13.13	Replacement the H/T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm- For copper coils	1 Kg	590.00
763	ELEC-7.13.14	Replacement the H/T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm - For aluminium coils	1 Kg	390.00
764	ELEC-7.13.15	Insulating HT / LT copper / aluminium coils for Transformers.	1 No	300.00
765	ELEC-7.13.16	Painting with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. -Upto 500 KVA	1 No	3000.00
766	ELEC-7.13.17	Painting with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. - 630 / 1000 KVA	1 No	4000.00
767	ELEC-7.13.18	Replacing H.T bushing for distribution Transformer by new one.	1 No	350.00
768	ELEC-7.13.19	Replacing H.T bushing metal parts for distribution Transformer by new one.	1 No	380.00
769	ELEC-7.13.20	Replacing L.T bushing for distribution Transformer by new one.- Upto 315 KVA	1 No	165.00
770	ELEC-7.13.21	Replacing L.T bushing for distribution Transformer by new one for.- 500 / 1000 KVA	1 No	175.00
771	ELEC-7.13.22	Replacing L.T bushing metal parts for distribution Transformer by new one for. -100 KVA	1 No	300.00
772	ELEC-7.13.23	Replacing L.T bushing metal parts for distribution Transformer by new one for. -250 / 315 KVA	1 No	500.00
773	ELEC-7.13.24	Replacing L.T bushing metal parts for distribution Transformer by new one for. -500 KVA	1 No	1300.00
774	ELEC-7.13.25	Replacing L.T bushing metal parts for distribution Transformer by new one for. -1000 KVA	1 No	2000.00
775	ELEC-7.13.26	Drying the repaired transformer with appropriate heat / air. -Upto 315 KVA	1 No	3000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
776	ELEC-7.13.27	Drying the repaired transformer with appropriate heat / air. -500 / 1000KVA	1 No	4200.00
777	ELEC-7.13.28	Loading and Unloadng of transformer from site to Workshop or vice verse. -Upto 500 KVA	1 No	4500.00
778	ELEC-7.13.29	Loading and Unloaidng of transformer from site to Workshop or vice verse. -630 / 1000 KVA	1 No	6800.00
779	ELEC-7.13.30	Transformer oild tested as per IS-335 - 1972 (per Ltr)	1 Ltr	120.00
780	ELEC-7.13.31	Filteration of transformer oil as per ISS specifications filters to die electric strength above 40 K. V at site. (per Ltr)	1 Ltr	8.00
781	ELEC-7.13.32	Filteration of transformer oil as per ISS specifications filters to die electric strength above 40 KV at workshop (per Ltr)	1 Ltr	5.00
782	ELEC-7.13.33	Supply of MPP type heavy duty capacitor of operating voltage not less than 480V and losses not more than 0.35W per KVAR and inrush current withstand capability 300 times the rated current. Makes:L&T/Siemens/Schneider/Epcos.	1 KVAR	350.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

#### 7.14 TRANSFORMERS

- 783 ELEC-7.14.1 Supply, Transportation, Installation, Testing and Commissioning of ----- KVA TRANSFORMER : The Transformer shall be designed and manufactured as per IS:1180 with first filling of oil as per IS 335-1993. The basic details of the Transformer are as under.  
**Makes: Kirloskar / PETE / Esennar / Voltamp.**
1. Quantity : 1
  2. Rated KVA : .....KVA
  3. Service & Location: Continuous Outdoor Distribution Transformer
  4. Mounting : Plinth.
  5. Wound : Copper Double wound
  6. Type : Core type oil immersed
  7. Cooling : ONAN
  8. Temp Rise : 40°C in oil  
45°C by resistance
  9. Vector Group: Dyn 11
  10. Primary Connection : Delta
  11. Nominal Voltage / Current : \_\_\_\_\_
  12. Highest system Voltage: 12000V
  13. Primary Frequency :50 HZ +/- 3%
  14. Number of Phases : 3
  15. Primary wires: 3
  16. Secondary connection : Star
  17. Secondary Volts / Current : 433V
  18. Secondary phases : 3
  19. Secondary wires: 4
  20. Taps on primary winding for primary voltage variation : +5% to - 10% in steps of 2.5% of 7 position (6 Steps)
  21. Terminal arrangement.
    - a.HV: HT terminal box as per the site condition.
    - b. LV: Cable box suitable to receive -----Sq.mm XLPE cable
  22. LV:One separate terminal for earthing.
  23. Total Losses at 50% Loading [Watts] [Max] -----
  24. Total Losses at 100% Loading [Watts] [Max]-----
  - 25.Percentage Impedance at 75 deg. C at -----
  26. No Load current: Less than 2% of full load current.

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

27. Standrad Fittings & Accessories.

a. Rating and terminal marking plate: One				
b. Lifting Lugs:Two				
c. Off-circuit tap switch :One				
d. Earthing Terminals :Two				
e. Radiators ( Attachable) :Adequate				
f. Explosion vent with Diaphragm :One				
g. Conservator with Drain plug:one				
h. Oil filling hole with cap :One				
i. Oil level indicator : One				
j. Dehydrating Silicagel Breather : One				
k. Terminal Arrangement: HV With Treminal Box				
l. Terminal Arrangement : LV Cable Box				
m. Separate Neutral Bushing : One				
n. Filter valve with blanking plate : One				
o. Drain cum filter valve with blanking plate : One				
p. Air release device : One				
q. Thermometer Pocket : One				
r. Four :Unidirectional flat rollers				
s. One :10Cm dial thermometer(Rigid stem type)				
-do- 160 KVA Copper Wound Transformer				515250.00
-do- 200 KVA Copper Wound Transformer				644000.00
-do- 250 KVA Copper Wound Transformer				740000.00
-do- 315 KVA Copper Wound Transformer				837000.00
-do- 400 KVA Copper Wound Transformer				927000.00
-do- 500 KVA Copper Wound Transformer				1069000.00
-do- 630 KVA Copper Wound Transformer				1200000.00
-do- 1000 KVA Copper Wound Transformer				1420000.00

**7.15 L.T. LINE MATERIALS AND LIGHTENING PROTECTIVE SYSTEM**

784	ELEC-7.15.1	Supply and erecting approved make 11KV, 5KA metal oxide lightning arrestors suitable for 11 KV supply with necessary materials on existing cross arm.	1 No	1500.00
785	ELEC-7.15.2	Supply and erecting porcelain disc type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	600.00
786	ELEC-7.15.3	Supply and erecting porcelain pin type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	300.00
787	ELEC-7.15.4	Supply and erecting porcelain post type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	675.00
788	ELEC-7.15.5	Supply and erecting porcelain pin/shackle type insulator suitable for L. T.	1 No	90.00
789	ELEC-7.15.6	Approved made 11KV, 400A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	7000.00
790	ELEC-7.15.7	Approved made 11KV, 200A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	6100.00
791	ELEC-7.15.8	Approved made 11KV, 200A A.B switch (tilting) with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	5900.00
792	ELEC-7.15.9	11KV, H.G fuse set including all standard accessories etc., complete with cost and conveyance of all materials.	1 No	4000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
793	ELEC-7.15.10	Supply of 7/3.15 AAA C all Aluminium annealed conductor Rabbit.	1 Km	26264.00
794	ELEC-7.15.11	Supply of 7/2.50 AAA C all Aluminium annealed conductor Weasel.	1 Km	16153.00
795	ELEC-7.15.12	Supply of 9.1 Mtr PSCC Pole 280 Kg Working load.	1 No	3442.00
796	ELEC-7.15.13	Supply of 8.0 Mtr PSCC Pole 140 Kg Working load.	1 No	1832.00
797	ELEC-7.15.14	Supply of 175 x 85 mm / 150 x 75 mm RS Joist.	1 Kg	53.00
798	ELEC-7.15.15	Supply and installation of NIMBUS CPT-3/NLP 2200 / FOREND(ESE-EU) Advanced lighting protection with capturing head of 135 - 210mm diameter, 205 -580mm height and 4.60 - 4.940 kgs , and having Rod length 760mm, weight 1.795 kgs with stainless steel rod, working on the principle of (ESE) Early Streamer Emission technology, having a coverage radius of 79mts when mounted on 10 - 15 mts height of existing lattice tower giving level 1 protection and anticipation emission time of 60 micro seconds/72 micro seconds. The NIMBUS is manufactured according to standard NFC 17 102 and UNE 21186-96 including functional integrity etc Complete. Make : NIMBUS / FOREND / SCHIRTEC or equivalent	1 No	128000.00
799	ELEC-7.15.16	Installation and commissioning of NIMBUS / FOREND or equivalent advanced lighting protection systems which includes 1. Laying of CC Bed 2. Installation of Lighting Rod 3. Laying of Down conductor 4. Installation of Counter 5. Installation of Earth Electrodes 6. Interconnection between the Electrodes 7. Termination of down conductor to earth bus etc complete	1 No	31200.00
800	ELEC-7.15.17	Supply of electro-Mechanical counter  Makes: CIRPROTEC / INDALAC / INGESCO / SCHIRTEC.	1 Pt	16000.00
801	ELEC-7.15.18	Providing earth electrode of low carbon steel rod of 17mm dia, coated with 250 microns thick copper 3mtr long with clamps and 2 bags of LORESCO ZEROLITE back fill compound etc complete with construction of brick masonry of size 300mm x 300mm chamber with cover for maintenance free earthing.	1 Pt	11500.00
802	ELEC-7.15.19	Supply of down conductor of 1x70sqmm single core PVC insulated unarmoured copper conductor cable of ISI mark.  Makes : Polycab / Havells / RPG / RR Kabel / KEI.	1 Mtr	410.00
	<b>8.1</b>	<b>NET WORKING</b>		
803	ELEC-8.1.1	Supply of 2 Pair, 0.5mm telephone copper wire. Makes : Finolex / Delton / Surabi / Polycab	100 Mtrs	1010.00
804	ELEC-8.1.2	Supply of 5 Pair telephone copper wire. Makes : Finolex / Delton / Surabi / Polycab	100 Mtrs	2800.00
805	ELEC-8.1.3	Supply of LAN Cable cat - 6 UTP cable. Makes : D Link / AMP / Molex / Legrand / Krone.	100 Mtrs	2300.00
806	ELEC-8.1.4	Supply of LAN Cable cat - 6 STP cable. Makes : D Link / AMP / Molex / Legrand / Krone.	100 Mtrs	4400.00
807	ELEC-8.1.5	Supply of Cat 6 RJ-45 information outlets including duel face plate.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	340.00
808	ELEC-8.1.6	Supply of 48 Port manageable switches		
		Makes : CISCO / Net Gear / HP / D link.	1 No	15600.00
809	ELEC-8.1.7	Supply of 24 Port manageable switches		
		Makes : CISCO / Net Gear / HP / D link.	1 No	6700.00
810	ELEC-8.1.8	Supply of 8 Port switches.		
		Makes : CISCO / Net Gear / HP / D link.	1 No	1235.00
811	ELEC-8.1.9	Supply of access point.		
		Makes : CISCO-WAP321 or its equivalent in Net Gear / HP / D link.	1 No	12500.00
812	ELEC-8.1.10	Supply of 7 feet length moulded patch cord.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	220.00
813	ELEC-8.1.11	Supply of 3 feet length moulded patch cord.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	200.00
814	ELEC-8.1.12	Supply of 24 port patch panels		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	6500.00
815	ELEC-8.1.13	Supply of 100 pair MDF loaded with 2/10 Modular		
		Makes : Krone make or its equivalent.	1 No	3680.00
816	ELEC-8.1.14	Supply of 100 Pair raiser cable for telephone		
		Makes : Finolex / Delton / Surabi / Polycab.	1 Mtr	387.00
817	ELEC-8.1.15	Supply of 10 Pair telephone Copper wire.		
		Makes : Finolex / Delton / Surabi / Polycab.	1 Mtr	40.00
818	ELEC-8.1.16	Supply of 20 Pair telephone Copper wire .		
		Makes : Finolex / Delton / Surabi / Polycab.	1 Mtr	76.00
819	ELEC-8.1.17	Supply of 50 Pair telephone Copper wire .		
		Makes : Finolex / Delton / Surabi / Polycab.	1 Mtr	195.00
820	ELEC-8.1.18	Supply of 10 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	650.00
821	ELEC-8.1.19	Supply of 20 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	990.00
822	ELEC-8.1.20	Supply of 50 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	2070.00
823	ELEC-8.1.21	Supply of 200 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	7900.00
824	ELEC-8.1.22	Supply of 6U floor / Wall mounting net work rack with power spike including all accessories.		
		Makes : HCL / Vall.	1 No	4700.00
825	ELEC-8.1.23	Supply of 9U floor mounting net work rack with power spike including all accessories.		
		Makes : HCL / Vall.	1 No	5580.00
826	ELEC-8.1.24	Supply of 12U floor mounting net work rack with power spike including all accessories.		
		Makes : HCL / Vall.	1 No	6484.00
827	ELEC-8.1.25	Supply of 15U floor mounting net work rack with power spike including all accessories.		
		Makes : HCL / Vall.	1 No	7348.00
828	ELEC-8.1.26	Supply of 17U floor mounting net work rack with power spike including all accessories.		
		Makes : HCL / Vall.	1 No	10125.00
829	ELEC-8.1.27	Supply of 42U floor mounting net work rack with power spike including all accessories.		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		Makes : HCL / Vall.	1 No	35200.00
830	ELEC-8.1.28	Supply of 6 Core (Indoor / Out door), Single mode armoured, Optic fibre cable.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 Mtr	75.00
831	ELEC-8.1.29	Supply of 12 Core (Indoor / Out door), Single mode armoured, Optic fibre cable.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 Mtr	105.00
832	ELEC-8.1.30	Supply of 6 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	7500.00
833	ELEC-8.1.31	Supply of 12 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	9500.00
834	ELEC-8.1.32	Supply of Subscriber connector (SC) to SC / LC patch card of 1 Mtr length.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	2000.00
835	ELEC-8.1.33	Supply of Pigtailed for fibre core connectivity.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	350.00
836	ELEC-8.1.34	Supply of Cat 6 RJ-45 information outlets including Single face plate.		
		Makes : D Link / AMP / Molex / Legrand / Krone.	1 No	250.00
		<b>RACEWAYS AND JUNCTION BOXES</b>		
837	ELEC-8.1.35	Supply of 100mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	460.00
838	ELEC-8.1.36	Supply of 150mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	605.00
839	ELEC-8.1.37	Supply of 300mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	1035.00
840	ELEC-8.1.38	Supply of 100mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	435.00
841	ELEC-8.1.39	Supply of 150mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	560.00
842	ELEC-8.1.40	Supply of 300mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	1010.00
843	ELEC-8.1.41	Supply of 172mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1 No	340.00
844	ELEC-8.1.42	Supply of 222mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1 No	430.00
845	ELEC-8.1.43	Supply of 372mm x 52mm G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.	1 No	830.00
	<b>9.1</b>	<b>MISSILLANEOUS ITEMS</b>		
846	ELEC-9.1.1	TW Seperators / Gutties	100 Nos	165.00
847	ELEC-9.1.2	Rawl Plugs	100 Nos	28.00
848	ELEC-9.1.3	U Nails	100 Nos	44.00
849	ELEC-9.1.4	Alluminium Link Clips	144 Nos	55.00
850	ELEC-9.1.5	50 mm G.I.Nut and Bolts.	1 Set	13.00
851	ELEC-9.1.6	63 to 100 mm G.I.Nut and Bolts.	1 Set	24.00
852	ELEC-9.1.7	50 mm 0 Gauge Nails	1 Doz	44.00
853	ELEC-9.1.8	63 to 100 mm 0 Gauge Nails	1 Doz	73.00
854	ELEC-9.1.9	Hard Coke	1 Kg	15.00
855	ELEC-9.1.10	Salt	1 Kg	10.00
856	ELEC-9.1.11	PVC Cleats 2 Way	100 Nos	330.00
857	ELEC-9.1.12	PVC Cleats 4 Way	100 Nos	440.00
858	ELEC-9.1.13	Binding Wire	1 Kg	61.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
859	ELEC-9.1.14	PVC / Cotton Insulation tape Role ( 10 Mtrs)	1 No	17.00
860	ELEC-9.1.15	C.I.Knob	1 No	25.00
861	ELEC-9.1.16	Stay tight set (Jum bracket 300 mm)	1 Pair	300.00
862	ELEC-9.1.17	Stay clamp with bolts and Nuts)	1 Set	200.00
863	ELEC-9.1.18	L.T.Guy insulator	1 No	75.00
864	ELEC-9.1.19	12 / 15 MS plain rod fan hook	1 No	30.00
865	ELEC-9.1.20	19 / 20 mm Steel tube fan down rod	1 Mtr	80.00
866	ELEC-9.1.21	Consealed box PVC / MS with hook for fan	1 No	100.00
867	ELEC-9.1.22	Coil Earthing	1 No	75.00
868	ELEC-9.1.23	Cable root Indicators	1 No	90.00
869	ELEC-9.1.24	40 mm x 40 mm x 6 mm angle iron with I bolt.	1 Set	250.00
870	ELEC-9.1.25	Mild Steel Items	1 Kg	61.00
871	ELEC-9.1.26	Acrylic Cover of size 4" x 7" for night lamps.	1 No	17.00
872	ELEC-9.1.27	TW / PVC Round Blocks	1 No	7.00
873	ELEC-9.1.28	G.I.Funnel with Mesh 1/2" x 4"	1 No	83.00
874	ELEC-9.1.29	Asbestos Sheet	1 Sqft	22.00
875	ELEC-9.1.30	First Aid box 18" x 12" x 8"	1 No	1100.00
876	ELEC-9.1.31	11 KV/22 KV Hand gloves	1 No	200.00
877	ELEC-9.1.32	Danger Notice Plates of size 250x200mm, shall comply with IS:2551-1982.	1 No	250.00
878	ELEC-9.1.33	Shock instrution chart in English / Hindi / Telugu duly framed with front glass.	1 No	500.00
879	ELEC-9.1.34	Copper plate / Copper strip (Per K.G)	1 Kg	605.00
880	ELEC-9.1.35	No. 8/10 SWG copper wire (per K.G)	1 Kg	605.00
881	ELEC-9.1.36	PVC Insulated copper winding wire of fine quality (per K. G)	1 Kg	726.00
882	ELEC-9.1.37	No. 14 SWG copper wire (per K. G)	1 Kg	605.00
883	ELEC-9.1.38	Copper winding wire (per K. G)	1 Kg	701.00
884	ELEC-9.1.39	G.I. Strip / Plate / Wire (per K. G)	1 Kg	68.00
885	ELEC-9.1.40	Alluminum Bus bars/Strips/accessories	1 Kg	234.00
886	ELEC-9.1.41	Alluminum winding wire	1 Kg	322.00
887	ELEC-9.1.42	6.2 Volt series bulb (25 Nos.)	25 Nos	91.00
888	ELEC-9.1.43	6.2 Volt series bulb with navar plate(25 Nos.)	25 Nos	97.00
889	ELEC-9.1.44	Supply of Rotating machine	1 No	16500.00
890	ELEC-9.1.45	Supply and fixing of 6mm thick MS Chekered plate.	1 Kg	67.00
891	ELEC-9.1.46	Supply and fixing of 6mm thick Alluminium Chekered plate.	1 Kg	266.00
892	ELEC-9.1.47	Copper old winding Wire scrap for 1 Kg	1 Kg	165.00
893	ELEC-9.1.48	Cement	1 Kg	7.00
894	ELEC-9.1.49	Hylam Sheet	1 sq.in	1.00
895	ELEC-9.1.50	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit.	1 Cum	220.00
896	ELEC-9.1.51	Cost of Sand	1 Cum	594.00
897	ELEC-9.1.52	Cost of Bricks	1000 Nos	3819.00
898	ELEC-9.1.53	25mm Nominal Bore light grade G.I.Pipe	1 Mtr	226.00
899	ELEC-9.1.54	25mm Nominal Bore Medium grade G.I.Pipe	1 Mtr	242.00
900	ELEC-9.1.55	40mm Nominal Bore light grade G.I.Pipe	1 Mtr	355.00
901	ELEC-9.1.56	40mm Nominal Bore Medium grade G.I.Pipe	1 Mtr	381.00
902	ELEC-9.1.57	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1 No	6.00
903	ELEC-9.1.58	G.I Nuts, Bolts an Washers each set	1 Set	11.00
904	ELEC-9.1.59	18" dia 2" thick hume pipe ring	1 No	220.00
905	ELEC-9.1.60	18" dia 3" hume pipe ring	1 No	275.00
906	ELEC-9.1.61	2" thick CC cover for hume pipe ring with handle.	1 No	121.00
907	ELEC-9.1.62	Supply of Saddle / Clamps suitable for fixing 2 Core 4 to 10 Sqmm Cable.	100 Nos	249.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
908	ELEC-9.1.63	Supply of Saddle / Clamps suitable for fixing 4 Core 4 & 6 Sqmm Cable.	100 Nos	249.00
909	ELEC-9.1.64	Supply of Saddle / Clamps suitable for fixing 4 Core 10 & 16 Sqmm Cable.	100 Nos	314.00
910	ELEC-9.1.65	Supply of Saddle / Clamps suitable for fixing 3.5 Core 25 & 35 Sqmm Cable.	100 Nos	382.00
911	ELEC-9.1.66	Supply of Saddle / Clamps suitable for fixing 3.5 Core 50 Sqmm Cable.	100 Nos	545.00
912	ELEC-9.1.67	Supply of Saddle / Clamps suitable for fixing 3.5 Core 70 & 95 Sqmm Cable.	100 Nos	605.00
913	ELEC-9.1.68	Supply of Saddle / Clamps suitable for fixing 3.5 Core 120 to 185 Sqmm Cable.	100 Nos	726.00
914	ELEC-9.1.69	Supply of Saddle / Clamps suitable for fixing 3.5 Core 240 & 300 Sqmm Cable.	100 Nos	908.00
915	ELEC-9.1.70	Supply of Saddle / Clamps suitable for fixing 3.5 Core 400 Sqmm Cable.	100 Nos	1210.00
916	ELEC-9.1.71	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1 No	88.00
917	ELEC-9.1.72	Supply and fixing of PVC synthetic elastomer electrically insulated mat with class A insulation conforming to IS: 15652-2006 having 2mm thickness upto 3.3KV	1 Sqmtr	4200.00
918	ELEC-9.1.73	Supply and fixing of PVC synthetic elastomer electrically insulated mat with Class B insulation conforming to IS: 15652-2006 having 2.5mm thickness upto 11KV	1 Sqmtr	4200.00
919	ELEC-9.1.74	Supply and fixing of PVC synthetic elastomer electrically insulated mat with ClassC insulation conforming to IS: 15652-2006 having 3mm thickness upto 33KV	1 Sqmtr	4200.00
920	ELEC-9.1.75	Supply of round bottom G.I sheet bucket of 9 Ltrs. Capacity as per IS:2546 made out of 24 gauge GI sheet with extra handle at bottom duly painted inside and red out side with printed with FIRE Mark for stand and hook and filled with sand and arranged to existing stand or hook. ( MR )	1 No	300.00
921	ELEC-9.1.76	Providing floor mounting stand for keeping 4No of fire bucket 1500mm length, 900mm height made out of 40x40x6mm angle iron welded with 4 hooks and duly painted with one coat of red lead and two coats of enamel paint.	1 No	1200.00
	<b>10.1</b>	<b>WIRELESS FIRE ALARAM SYSTEM</b>		
922	ELEC-10.1.1	Supply and fixing of wireless smoke detection control panel of 28 wireless zones, 2 Hard wired Zones, Tamper Alert, Pass code protected, RF jamming recognition, diagnostic feature for RF signal strength between panel and each detector, vent reporting using PSTN telephone line, dialing upto 4 telephone numbers, event reporting as per users choice, LCD screen display, two way voice interaction, battery backup stand by time up to 12 hrs Including transportation, all taxes and all labour charges etc complete.		
		Makes : Cease Fire / Visonic / Honeywell	1 No	40000.00

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923	ELEC-10.1.2	Supply and fixing of Wireless Repeater.The wireless repeater extends the communication range of detection by relaying data between receiver and remote wireless transmitter Including transportation, all taxes and all labour charges etc complete. <b>Makes : Cease Fire / Visonic / Honeywell</b>	1 No	9400.00
924	ELEC-10.1.3	Supply and fixing of Wireless Siren Strobe external wireless siren - a fully supervised power code outdoor (IP55) wireless Siren and strobe light. Designed for external installation. Wire - Free connection between control panel and siren. Convenient rapid no- mess installation. Separate fire alarm signals, 98db Piezo siren and high power strobe light. Weather resistant, IP55, 2-way communication for local and remote diagnostics. Plug-in power supply, NIMH rechargeable back-up power battery, transmits status, tamper, low- battery, supervisory and AC loss messages to the control panel, Tri- State tamper switch identifies screw manipulation removal of cover or playing from the wall Including transportation, all taxes and all labour charges etc complete.  <b>Makes : Cease Fire / Visonic / Honeywell</b>	1 No	13200.00
925	ELEC-10.1.4	Supply and fixing of wireless Fully Supervised Smoke Detector, Photoelectric detection technology for superior detection sensitivity , sound and transmitted for smoke, tamper and low battery, works on power code protocol, easy programming and enrolling to the control panel, long life 9 volt alkaline or lithium battery Including transportation, all taxes and all labour charges etc complete. <b>Makes : Cease Fire / Visonic / Honeywell</b>	1 No	6500.00
	<b>10.2</b>	<b>ADDRESSABLE - FIRE ALARM SYSTEM</b>		
926	ELEC-10.2.1	Supply, Installation, testing and commissioning of wall mounting 10 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 10 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. <b>Makes: Notifier / Edwards</b> <b>Makes: Siemens / Morley / Bosch / Ravel</b>	1 No 1 No	620000.00 580000.00

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927	ELEC-10.2.2	Supply, Installation, testing and commissioning of wall mounting 8 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash EPROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 8 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	450000.00 410000.00
928	ELEC-10.2.3	Supply, Installation, testing and commissioning of wall mounting 6 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash EPROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 6 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	415000.00 370000.00

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929	ELEC-10.2.4	<p>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 EPROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 4 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.</p> <p>Makes: Notifier / Edwards</p> <p>Makes: Siemens / Morley / Bosch / Ravel</p>	<p>1 No 280000.00</p> <p>1 No 250000.00</p>
930	ELEC-10.2.5	<p>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 EPROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 2 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications.</p> <p>Makes: Notifier / Edwards</p> <p>Makes: Siemens / Morley / Bosch / Ravel</p>	<p>1 No 235000.00</p> <p>1 No 210000.00</p>

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931	ELEC-10.2.6	Supply, Installation, testing and commissioning of wall mounting 1 loop micro processor based analog addressable fire control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable being integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 1 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	200000.00 190000.00
932	ELEC-10.2.7	Supply, Installation, testing and commissioning of intelligent analogue addressable Repeater panel including the cost of mounting accessories complete as per specification as required. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	118750.00 100000.00
933	ELEC-10.2.8	Supply and fixing of addressable wall mounting strobes cum hooters including the cost of mounting accessories complete as per specifications and as required including testing and commissioning. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	5770.00 4700.00
934	ELEC-10.2.9	Supply and installation of addressable analogue manual call point with resetable flexible element to initiate alarm including the cost of mounting accessories etc. complete. Makes: Notifier / Edwards Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	5900.00 5300.00
935	ELEC-10.2.10	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 Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	5800.00 5100.00
936	ELEC-10.2.11	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 Makes: Siemens / Morley / Bosch / Ravel	1 No 1 No	5059.00 4560.00

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937	ELEC-10.2.12	Supply and installation of intelligent analogue addressable multi criterion detectors below false ceiling/on ceiling including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required.		
		Makes: Notifier / Edwards	1 No	6175.00
		Makes: Siemens / Morley / Bosch / Ravel	1 No	5558.00
938	ELEC-10.2.13	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
939	ELEC-10.2.14	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
940	ELEC-10.2.15	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>10.3</b>	<b>CONVENTIONAL - FIRE ALARM SYSTEM</b>		
941	ELEC-10.3.1	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 2 zone, 12V SMF batteries etc., complete with all standard accessories.		
		Makes: System Censor / Ravel / Pinnacle	1 No	7500.00
942	ELEC-10.3.2	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 4 zone, 12V SMF batteries etc., complete with all standard accessories.		
		Makes: System Censor / Ravel / Pinnacle	1 No	9900.00
943	ELEC-10.3.3	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 6 zone, 12V SMF batteries etc., complete with all standard accessories.		
		Makes: System Censor / Ravel / Pinnacle	1 No	13750.00
944	ELEC-10.3.4	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 8 zone, 12V SMF batteries etc., complete with all standard accessories.		
		Makes: System Censor / Ravel / Pinnacle	1 No	15950.00
945	ELEC-10.3.5	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 10 zone, 12V SMF batteries etc., complete with all standard accessories.		
		Makes: System Censor / Ravel / Pinnacle	1 No	20350.00
946	ELEC-10.3.6	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 12 zone, 12V SMF batteries etc., complete with all standard accessories.		

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947	ELEC-10.3.7	<p>Makes: System Censor / Ravel / Pinnacle</p> <p>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.</p>	1 No	22550.00
948	ELEC-10.3.8	<p>Makes: System Censor / Ravel / Pinnacle</p> <p>Supply and installation of Repeater panel including the cost of mounting accessories complete as per specifications and as required.</p>	1 No	27500.00
949	ELEC-10.3.9	<p>Makes: System Censor / Ravel / Pinnacle</p> <p>Supply and installation of dual tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required.</p>	1 No	13750.00
950	ELEC-10.3.10	Supply and installation of dust and vermin proof manual call point to initiate audio visual alarm including the cost of mounting accessories complete as per specifications and as required.	1 No	675.00
951	ELEC-10.3.11	Supply and installation of response indicators for above false ceiling detectors.	1 No	650.00
952	ELEC-10.3.12	Supply and installation of plug - in type multi criterion detectors including the cost of base plate. 75mm dia M.S. outlet box for fixing of the detector base. Mounting accessories etc., complete as per specifications as required.	1 No	150.00
953	ELEC-10.3.13	<p>Makes: System Censor / Ravel / Pinnacle</p> <p>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.</p>	1 No	1800.00
954	ELEC-10.3.14	<p>Makes: System Censor / Ravel / Pinnacle</p> <p>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.</p>	1 No	1500.00
	<b>10.4</b>	<b>POWDER BASED FIRE EXTINGUISHERS</b>		
955	ELEC-10.4.1	Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 9 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Gauge, 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.	1 No	1450.00
		Makes : Cease Fire / Minimax	1 No	9180.00
		Makes : Safex / Kenex / Bharat / Reliance	1 No	5900.00



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956	ELEC-10.4.2	<p>Supply and fixing of ABC Powder MAP 4 Kg Fire extinguisher Mono ammonium phosphate power 90, stored pressure type, IS 15683 : 2006, pressure gauge gross wt. 6.9 kg, empty wt.2.9 kg, can Ht.440mm, Diameter 140mm, Discharge time less than 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C &amp; electrically started fires, A-rating 3A, B-rating 34B, can construction: Deep drawn Co2 mig welding, wall construction: Forging &amp; Machining, internal coating of can: Epoxy power coating, External coating of Can:Epoxy polyster powder coating, sheet metal thickness:1.60mm, Helium leakage detection tested, ISI &amp; CE approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat / Reliance</p>	1 No 1 No	6370.00 4100.00
957	ELEC-10.4.3	<p>Supply and fixing of ABC Powder MAP 2 Kg Fire extinguisher Mono ammonium phosphate power 90, stored pressure type, IS 15683 : 2006, pressure gauge gross wt. 3.6 kg, empty wt.1.6 kg, can Ht.344mm, Diameter 108mm, Discharge time less than 8 sec, controllable discharge mechanism, range min. 2 mts applicable on classes A,B, C electrically started fires, A-rating 2A, B-rating 21B, can construction: Deep drawn Co2 mig welding, wall construction: Forging &amp; Machining, internal coating of can: Epoxy power coating, External coating of Can:Epoxy polyster powder coating, sheet metal thickness:1.60mm, Helium leakage detection tested, insta - alert, ISI &amp; CE approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat / Reliance</p>	1 No 1 No	4500.00 2900.00
958	ELEC-10.4.4	<p>Supply and fixing of Ceiling Mounted ABC MAP 90, 5 Kg stored pressure type, pressure gauge, Gross Wt.7.7 kg, Empty Wt.2.7 kg, Can Ht264mm , Dia 240mm, Discharge time : less than 8 sec, IS 15683 : 2006 Auto discharge mechanism on temperature rise, Applicable on A,B,C, &amp; Electrically - started fires, Can Construction: Forging &amp; Machining, Internal coating of Can: Epoxy Power coating, External Coating of Can: Epoxy Polyster powder coating, sheet metal thickness:1.60mm , Helium leakage detection tested, ISI approved with 5 years warranty (Cease Fire / Minimax make) Including transportation, all taxes and all labour charges etc complete.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat / Reliance</p>	1 No 1 No	7200.00 5600.00

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### 10.5 CLEAN AGENT FIRE EXTINGUISHERS

959	ELEC-10.5.1	<p>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 &amp; CO2 mig welded, Valve construction: Forging &amp; 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 &amp; CE approved, 5 Years warranty.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat.</p>	1 No 1 No	12960.00 11000.00
960	ELEC-10.5.2	<p>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 &amp; CO2 mig welded, Valve construction: Forging &amp; 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 &amp; CE approved 5 Years warranty.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat.</p>	1 No 1 No	23490.00 21000.00
961	ELEC-10.5.3	<p>Supply &amp; Fixing of 4.5Kg, CO2 Type Fire Extinguisher, Trolley Mounted, Easy Weight Management, Used Unused Mechanism, Squeeze Grip, Gross Weight 19.1 Kg, Empty Weight 14.6 Kg, Can Height 860MM, Diameter 140MM, Discharge time minimum 13 Secs, Controllable discharge mechanism, Range minimum 2 Meters, Applicable on Class B,C &amp; electrically started Fire, B Rating 13B, Can Construction : Hot Spinning / Forging, Valve Construction : Forging &amp; Machining, Internal Coating of Can : Not Applicable, External Coating of Can : Spray Painting, Sheet metal thickness : 4.5MM, ISI &amp; CE Approved, 2 Year Warranty Including transportation, all taxes and all labour charges etc complete.</p> <p>Makes : Cease Fire / Minimax Makes : Safex / Kenex / Bharat / Reliance</p>	1 No 1 No	10900.00 8200.00
962	ELEC-10.5.4	<p>Supply and fixing of Escape signage boards in Rigid Photo luminescent based glow in Dark rigid sheet with high intensity luminous properties with specificaiton of Cease Fire or its equivalent make Model-1ES01</p>	1 No	1300.00

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963	ELEC-10.5.5	Supply and fixing of Cease fire or its equivalent Escape gear Mild Steel box size 425mmx360mmx140mm Epoxy powder coated to protect it from Weathering , smoke hood tested to Eupropean Standard EN 403 1993-S known to reduce Carbon Monoxide, propend(acrloein), hydrogen chloride, hydrogen Cyanide and Solid and liquid toxic particles to manageable level for atleast 15 minutes shall with stand teperature 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
964	ELEC-10.5.6	Supply and fixing of 4Nos of 9 Ltrs capacity round bottom bucket with sand, duly painted with enamel white inside & red out side and letter FIRE with black colour.	1 Set	1200.00
965	ELEC-10.5.7	Supply anmd fixing of Fire bucket stand fabricated by M.S. angles to install for two numbers of buckets as per local fire officers standards.	1 Set	1000.00
<b>10.6 WATER MIST FIRE EXTINGUISHERS</b>				
966	ELEC-10.6.1	Supply & Fixing of Water Mist 9 Ltr. Fire Extinguisher : Gross Weight – 23.9 kg., Weight of the empty firefighting system without compressed air bottle and bottle valve- 14.9 kg., Can Height – 560 MM,Diameter – 204MM, Weight of the gun- 1.9kg, Nominal charge- 9 Ltr., Recoil – approx. 10N, Extinguishing Media Flow – 0.23 L/ sec, Water Discharge Hose – 13 MM, Discharge time minimum 25 Secs, Range minimum 10 Meters, Compressed Air to Gun – 10 MM, Applicable on Class A, B, C & Electrically started Fires, ARating-27A, BRating-233B, Compressed air bottle (volume/pressure) - 2L / 300bar, Operating pressure(dynamic)-approx 5.0 bar, Lancing distance of the extinguishing agent-in spray Approx. 7.0 m, in jet mode Approx, 12.0 m. Operation time- approx 40 sec, Extinguishing enhancement agent- Foam Additive, CE and ERDA approved, Sheet Metal Thickness – 1.5MM, 1 Year Warranty.		
		Makes: Cease Fire or Equivalent	1 No	183200.00
		AEROSOL GENERATION SYSTEM (AGS) AND FIRE EXTINGUISHERS		
967	ELEC-10.6.2	Supply, installation, testing and commissioning of Addressable Control panel for AGS system with monitoring system and provision of interactive TFT color Graphic Display with touch Screen Control and shall have built in feature of Mimic software which works on a Android based technology and a facility to show the layout location of the installation area and prescribed location of the devices during the fire accident. shall have minimum two level password protection. Shall have alert indication for missing device, contaminated device. The control panel shall have real-time clock (RTC) indicate time, date, month & year and along with a provision of Ethernet based circuit as if required.	1 No	46550.00
		Makes : SALAMANDRA / SEAARA / AGS		

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968	ELEC-10.6.3	<p>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.</p>	1 No	2375.00
969	ELEC-10.6.4	<p>Makes : SALAMANDRA / SEAARA / AGS</p> <p>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.</p>	1 No	2755.00
970	ELEC-10.6.5	<p>Makes : SALAMANDRA / SEAARA / AGS</p> <p>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.</p>	1 No	3135.00
971	ELEC-10.6.6	<p>Makes : SALAMANDRA / SEAARA / AGS</p> <p>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.</p>	1 No	70775.00

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1	2	3	4	7
972	ELEC-10.6.7	Supply of Auto Detection and Suppression System using Aerosol Generator System with required fittings as per standard composition for all classes of fire, With a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 78 sec. The Generator with a net weight of 10 kg Active Substance of 3.25 kg. and has diameter 220mm and height 220mm The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc. Makes : SALAMANDRA / SEAARA / AGS	1 No	114000.00
973	ELEC-10.6.8	Supply of Auto Detection and Suppression System using Dry Sprinkler Generator as per standard composition for all classes of fire, with a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 21 sec. The Generator has a net weight of 1.2 kg. Active Substance of 0.3 kg and has diameter 20mm and height 135mm. The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc. Makes : SALAMANDRA / SEAARA / AGS	1 No	38000.00
974	ELEC-10.6.9	Supply of Auto Detection and Suppression System using Aerosol Generator System as per standard composition with required fittings for all classes of fire, with a provision to connect to detect smoke and heat with a obt/ft of 0.5 and flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment. The product Min Life shall be 15 years and no Maintenance. The Discharge time should be 50 sec. The Generator has a net weight of 4.5 kg. Active Substance of 1.4 kg and has diameter 40mm and height 187mm. The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc. Makes : SALAMANDRA / SEAARA / AGS		66975.00
975	ELEC-10.6.10	Supply of Aerosol Heat Starter Sprinkler used for Auto Detection and Suppression System for Aerosol Generator System for all Class of Fire. The heat Starter Sprinkler has various starter capacity, which ranges from +50c to +163c. The starter can cover up to 18 m2. The product Min Life shall be 15 years. The output power from the Starter is 3v and current 0.6A and operates at a temperature range of - 50c to +80c. The Starter Sprinkler is suitable for Server Room, Electrical Storage and technical appliances, Important documents area etc. Makes : SALAMANDRA / SEAARA / AGS	1 No	8075.00
<b>10.7</b>		<b>FIRE HYDRANT AND SPRINKLER SYSTEM</b>		

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
976	ELEC-10.7.1	<p>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</p> <p>a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body &amp; bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr. head conforming to IS 1520</p> <p>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</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps: Kirloskar / Mather&amp;Platt. Makes of Motors: Siemens/ ABB/ Kirloskar</p>	1 Set	354000.00
977	ELEC-10.7.2	<p>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</p> <p>a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body &amp; bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr. head conforming to IS 1520</p> <p>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</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps: Kirloskar / Mather&amp;Platt. Makes of Motors: Siemens/ ABB/ Kirloskar</p>	1 Set	390000.00
978	ELEC-10.7.3	<p>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.</p>	1 Set	446400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr. head conforming to IS 1520

b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325

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

979	ELEC-10.7.4	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	468000.00
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a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr head conforming to IS 1520

b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.

c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.

d) Suitable cement concrete foundation duly plastered with anti vibration pads.

Makes of Engines : Kirloskar / Cummins.

Makes of Pumps : Kirloskar / Mather&Platt

980	ELEC-10.7.5	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	678000.00
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SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr head conforming to IS 1520

b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.

c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.

d) Suitable cement concrete foundation duly plastered with anti vibration pads.

Makes of Engines : Kirloskar / Cummins.

Makes of Pumps : Kirloskar / Mather&Platt

981	ELEC-10.7.6	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	762000.00
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a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 70 Mtr head conforming to IS 1520

b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts / 24 Volts electric starting equipment, Diesel Tank, exhaust pipe extended upto 1 m. outside pump house duly insulated with 50mm thick glass wool with 1.0mm thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc as required.

c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.

d) Suitable cement concrete foundation duly plastered with anti vibration pads.

Makes of Engines : Kirloskar / Cummins.

Makes of Pumps : Kirloskar / Mather&Platt



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
982	ELEC-10.7.7	<p>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</p> <p>a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER &amp; gland packing ,capacity 171 Cum/hr (2850 LPM) at total head 70 M at operating speed 2900 rpm. Pump duty as per TAC</p> <p>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.</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps: Kirloskar / Mather&amp;Platt. Makes of Motors: Siemens/ ABB/ Kirloskar</p>	1 Set	268750.00
983	ELEC-10.7.8	<p>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</p> <p>a) End suction back pull out pump, Std fitted with BRONZE Impeller &amp; 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</p> <p>b) Liquid cooled, 85 BHP at 1800 rpm, diesel engine (Radiator cooled) 12 Volts starting system with standard accessories</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&amp;Platt</p>	1 Set	556250.00
984	ELEC-10.7.9	<p>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</p> <p>a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER &amp; gland packing ,capacity 137 Cum/hr (2280 LPM) at total head 70 mwc at operating speed 2900 rpm. Pump duty as per TAC</p> <p>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</p>	1 Set	218750.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		<p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps: Kirloskar / Mather&amp;Platt. Makes of Motors: Siemens/ ABB/ Kirloskar</p>		
985	ELEC-10.7.10	<p>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</p> <p>a) End suction back pull out pump, Std fitted with BRONZE Impeller &amp; 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</p> <p>b) Liquid cooled, 68 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&amp;Platt</p>	1 Set	443750.00
986	ELEC-10.7.11	<p>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</p> <p>a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER &amp; gland packing ,capacity 97 Cum/hr (1620 LPM) at total head 56 mwc at operating speed 2900 rpm. Pump duty as per TAC</p> <p>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.</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps: Kirloskar / Mather&amp;Platt. Makes of Motors: Siemens/ ABB/ Kirloskar</p>	1 Set	161250.00
987	ELEC-10.7.12	<p>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</p> <p>a) End suction back pull out pump, Std fitted with BRONZE Impeller &amp; 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</p>	1 Set	387500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		<p>b) Liquid cooled, 50 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&amp;Platt</p>		
988	ELEC-10.7.13	<p>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</p> <p>a) Horizontal type, multistage, centrifugal pump of cast iron body &amp; bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 56 Mtr head conforming to IS 1520</p> <p>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</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps : Kirloskar / Mather&amp;Platt. Makes of Motors : Siemens/ ABB/ Kirloskar</p>	1 Set	55000.00
989	ELEC-10.7.14	<p>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</p> <p>a) Horizontal type, multistage, centrifugal pump of cast iron body &amp; bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 70 Mtr head conforming to IS 1520</p> <p>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</p> <p>c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.</p> <p>d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>Makes of Pumps : Kirloskar / Mather&amp;Platt. Makes of Motors : Siemens/ ABB/ Kirloskar</p>	1 Set	77860.00
990	ELEC-10.7.15	<p>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.</p>	1 Set	62450.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 45 Mtr head conforming to IS 1520

b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325

c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.

d) Suitable cement concrete foundation duly plastered with anti vibration pads.

Makes of Pumps : Kirloskar / Mather&Platt.

Makes of Motors : Siemens / ABB / Kirloskar

991	ELEC-10.7.16	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	48400.00
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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.

Makes : Kirloskar

992	ELEC-10.7.17	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	46245.00
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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



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		(c) 150 mm dia	1 No	4350.00
		(d) 100 mm dia	1 No	3400.00
		(e) 80 mm dia	1 No	3100.00
997	ELEC-10.7.21	Providing, installation, testing and commissioning of dual plate non - return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc as required		
		Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve.		
		(a) 200 mm dia	1 No	5000.00
		(b) 150 mm dia	1 No	4000.00
		(c) 100 mm dia	1 No	3725.00
		(d) 80 mm dia	1 No	3500.00
		(e) 50 mm dia	1 No	1723.00
998	ELEC-10.7.22	Manufacture, Supply and delivery of CI Wafer Lug type Butterfly Valves conforming to IS 13095/1991 (Reaffirmed 1998) excluding transportation, CED and taxes etc., complete. Operation done with worm actuator ISI marked Rate at Ex-Factory		
		Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve.		
		(a) 250 mm . dia	1 No	17007.00
		(b) 200 mm . dia	1 No	11849.00
		(c) 150 mm dia	1 No	7631.00
		(d) 100 mm dia	1 No	5088.00
		(e) 80 mm dia	1 No	3812.00
		(f) 50 mm dia	1 No	3067.00
999	ELEC-10.7.23	Providing, installation, testing and commissioning of gun metal valves of following sizes as required. Make: Newage / Winco / Padmini / Safex.		
		(a) 50 mm dia	1 No	1750.00
		(b) 40 mm dia	1 No	1400.00
		(c) 32 mm dia	1 No	1250.00
1000	ELEC-10.7.24	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required. Make: Mini Max / Safex / Newage / Winco / Padmini.	1 No	8125.00
1001	ELEC-10.7.25	Supplying and fixing 63mm dia, 15 mtr long CP hose pipe with 63mm dia Male and Female Gun metal / SS couplings duly binded with GI wire, rivets etc conforming to IS 636 (Type -A) as required. Make: Mini Max / Safex / Newage / Winco / Padmini.	1 No	8125.00
1002	ELEC-10.7.26	Supplying and fixing First -Aid Hose Reel with MS construction spray painted in Post office Red, Conforming to Is 884 with upto date amendments, complete with the following as required.  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	1 No	7500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		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.		
1003	ELEC-10.7.27	Supplying and fixing of hose cabinet of size 750mm X 600mm x 250mm made of No 16 gauge SWG CRCA sheet with 6mm thick glazed glass door including necessary locking arrangement suitable to accommodate 2 Nos 15 mtr long Hose pipe, 1 No branch pipe, mounted on wall OR raised brick platform and duly painted with Post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant as required.		
1004	ELEC-10.7.28	Make: Mini Max / Safex / Newage / Winco / Padmini. 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.	1 No	8125.00
1005	ELEC-10.7.29	Make: Mini Max / Safex / Newage / Winco / Padmini. 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.	1 No	8125.00
1006	ELEC-10.7.30	Make: Mini Max / Safex / Newage / Winco / Padmini. 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.	1 No	8125.00
1007	ELEC-10.7.31	Make: Mini Max / Safex / Newage / Winco / Padmini. 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 1 No	8125.00 16000.00
1008	ELEC-10.7.32	Supply, fixing, testing and commissioning of 15mm size quartzoid bulb type sprinklers of rating 68°C. pendent / side wall with required accessories. Makes: SAFEX / HD / TYCO / VIKING / NEWAGE / SHARP	1 No	490.00
1009	ELEC-10.7.33	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
1010	ELEC-10.7.34	Supply and fixing of Pressure Switch in the MS pipe Line including connection etc as required. Make : Danfoss / Indfoss / Approved makes	1 No	2500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

1011	ELEC-10.7.35	Supply and fixing Flow Switches in 100mm dia MS pipe.  Makes : System Sensor / Switzer / Approved makes	1 No	5375.00
1012	ELEC-10.7.36	Supply and fixing Flow Switches in 150 mm dia MS pipe.  Makes : System Sensor / Switzer / Approved makes	1 No	7500.00
1013	ELEC-10.7.37	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation valve and pipe having calibration of 0-16 kg/cm2.  Makes : HGURU / FIEBIG and Approved makes	1 No	675.00
1014	ELEC-10.7.38	Supply, installation, testing and commissioning of 25mm dia Gate valve  Makes : Zoloto / Leader / Approved makes	1 No	1175.00
1015	ELEC-10.7.39	Supply, installation, testing and commissioning of 25mm dia Ball valve  Makes : Zoloto / Leader / Approved makes	1 No	650.00
1016	ELEC-10.7.40	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve	1 No	1250.00
1017	ELEC-10.7.41	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 750mm to 800mm	1 No	1000.00
1018	ELEC-10.7.42	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 1000mm to 1200mm	1 No	1200.00
1019	ELEC-10.7.43	Supply, installation, testing and commissioning of Flexible Sprinkler hose of size 1.50 Mtr	1 No	1400.00
1020	ELEC-10.7.44	Providing, fixing, testing, commissioning of installation control valve of Cast iron body and brass / Bronze working parts comprising of water, motor alarm, bronze seat clapper, and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the Wet riser / Sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass , test control box, ball valves, Ms pipe of required size, flanges, orifice plate, gasket etc of size 150mm dia as required.  Makes : HD / TYCO / NEWAGE	1 No	9500.00
1021	ELEC-10.7.45	Supplying, installing, testing and commissioning approved make CI body Foot Valve with brass strainer with necessary flanges, nuts and bolts etc., complete on to the suction line.Rate as per the lowest quotation of Bharat Fire Safety Engineers.  Makes:Normex & approved makes a) 200mm nominal dia b) 150mm nominal dia c) 100mm nominal dia d) 80mm nominal dia	1 Ea 1 Ea 1 Ea 1 Ea	24790.00 13280.00 7450.00 5100.00
1022	ELEC-10.7.46	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings	AS per Civil SSR	
1023	ELEC-10.7.47	Supplying and wrapping the anticorrosive material for buried pipes with coating of Primer and wrapping with 4 mm thick polymer corrosion resistant tape as per IS : 10221 with 15 mm overlap as per specifications.		



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
		a) 150mm nominal dia	1 Mtr	50.00
		b) 100mm nominal dia	1 Mtr	44.00
		c) 80mm nominal dia	1 Mtr	33.00
1024	ELEC-10.7.48	Supply, fabricating , installing structural steel supports for fixing all sizes of MS pipes from ceiling / wall with MS Channels, Angles, Flats, Rods, as required at site with anchor fasteners, Clamps, threaded rods, nuts, bolts, washers etc complete with painting.	1 Kg	66.00
1025	ELEC-10.7.49	Supply of 2 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	75.00
1026	ELEC-10.7.49	Supply of 3 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	95.00
1027	ELEC-10.7.50	Supply of 3 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	125.00
1028	ELEC-10.7.51	Supply of 4 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	120.00
1029	ELEC-10.7.52	Supply of 4 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	165.00
1030	ELEC-10.7.53	Supply of 8 Core x 2.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	275.00
1031	ELEC-10.7.54	Supply of 10 Core x 1.5Sqmm FRLS armoured copper cable as per IS. 7098 / Part-I / 1988 including all taxes etc., complete. Makes: Universal / Polycab / Finolex / Havells / RR Kabel.	1 Mtr	235.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

### 11.1 GENERATORS SPECIFICATION

1032 ELEC-11.1.1

Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with standard control panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, t to restrict sound level up to 75 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.

A. Alternator : 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.Diesel Engine : Kirloskar / Cummins / Mahindra & Mahindra / Greaves Cotton 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

a	15 KVA, 3 Phase, 415, 50 Hz, 19 BHP, water cooled multy cylinder diesel generator set with alternator of 15 KVA output continious rating at 0.8 p.f. Batteries.	385875.00
b	30 KVA, 3 Phase, 415, 50 Hz, 40 to 42 BHP, water cooled multy cylinder diesel generator set with alternator of 30 KVA output continious rating at 0.8 p.f. Batteries.	496125.00
c	40 KVA, 3 Phase, 415, 50 Hz, 56 BHP, water cooled multy cylinder diesel generator set with alternator of 40 KVA output continious rating at 0.8 p.f. Batteries.	617400.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

1033 ELEC-11.1.2 Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with AMF panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, to restrict sound level up to 75 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.

A. Alternator : 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.Diesel Engine : Kirloskar / Cummins / Mahindra & Mahindra / Greaves Cotton 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

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

C. AMF Control Panel:- AMF control panel shall be fabricated with 16SWG CRCA sheet shall be totally enclosed with dust and Vermin proof, floor mounted / wall mounted type and shall be comprising the following.

01. Voltmeter with selector switch.
02. 4 Pole MCCB incomer of -----A rating of Schenieder / L&T make for EB and DG .
03. Ammeter with selector switch with CTs.
04. PF Meter and frequency Meter.
05. Indicator lamps (set Run, Load ON) with fuses.
06. KWH Meter of required rating.
07. Set of control fuses and current transformer.
08. Input Terminal board and output Terminal Board.
09. Battery charger with transformer rectifier unit.
10. Alternator supply air break contactor of L&T make.
11. Main supply air break contactor of L&T make.
12. Audio Visual annunciation .
13. Main supply voltage set of control relays and timers with one mode selector switch, set of push buttons.
14. Control cable up to 15 Mtrs 2.5Sqmm 6 Core

a 63 KVA, 3 Phase, 415, 50 Hz, 78 to 83 BHP, water cooled multy cylinder diesel generator set with alternator of 63 KVA output continious rating at 0.8 p.f. Batteries. 810000.00

b 125 KVA, 3 Phase, 415, 50 Hz, 154 BHP, water cooled multy cylinder diesel generator set with alternator of 125 KVA output continious rating at 0.8 p.f. Batteries. 1100000.00

1034 ELEC-11.1.3 Supply, Transportation, erection and commissioning (Excluding Foundation) of 3 Phase, 415, 50Hz, water cooled multi cylinder diesel generator set with alternator of - - - KVA/ - - - - KW out put contineous rating directly coupled Engine and Alternator with guard and mounted on a common base plate of Robust construction and complete with AMF panel having IP-52 protection, Acoustic Enclosure as per CPCB norms , sound absorbing material, t to restrict sound level up to 75 dB up to 1 mtr distance and as per CPCB norms etc as per following specifications mentioned below.

A. Alternator : 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	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

B.Diesel Engine : Kirloskar / Cummins / Catterpillar / Greaves Cotton Diesel Engine start, developing suitable ----- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc.

01. Exhaust pipe of required size and length with insulation or clading.
02. Diesel tank suitable for 8 to 12 Hours running capacity.
03. Residential Silencer.
04. SMF Batteries with leads as per the Manufacturer standards

C. AMF Control Panel:- AMF control panel shall be fabricated with 16SWG CRCA sheet shall be totally enclosed with dust and Vermin proof, floor mounted / wall mounted type and shall be comprising the following.

01. Voltmeter with selector switch.
02. 4 Pole MCCB incomer of -----A rating of Schenieder / L&T make for EB and DG .
03. Ammeter with selector switch with CTs.
04. PF Meter and frequency Meter.
05. Indicator lamps (set Run, Load ON) with fuses.
06. KWH Meter of required rating.
07. Set of control fuses and current transformer.
08. Input Terminal board and output Terminal Board.
09. Battery charger with transformer rectifier unit.
10. Alternator supply air break contactor of L&T make.
11. Main supply air break contactor of L&T make.
12. Audio Visual annunciation .
13. Main supply voltage set of control relays and timers with one mode selector switch, set of push buttons.
14. Control cable up to 15 Mtrs 2.5Sqmm 6 Core
14. Control cable up to 15 Mtrs 2.5Sqmm 6 Core

a	160 KVA, 3 Phase, 415, 50 Hz, 200 BHP, water cooled multy cylinder diesel generator set with alternator of 160 KVA output continious rating at 0.8 p.f. Batteries.	1433250.00
b	250 KVA, 3 Phase, 415, 50 Hz, 310 BHP, water cooled multy cylinder diesel generator set with alternator of 250 KVA output continious rating at 0.8 p.f. Batteries.	2205000.00
c	320 KVA, 3 Phase, 415, 50 Hz, 380 BHP, water cooled multy cylinder diesel generator set with alternator of 320 KVA output continious rating at 0.8 p.f. Batteries.	2866500.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

**12.1 UPS SYSTEMS**

1035	ELEC-12.1.1	Supply and installation of 800VA, 12VDC home UPS system pure sine wave out put, single phase input / Single phase output. Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1 No	9500.00
1036	ELEC-12.1.2	Supply and installation of 1400VA, 24VDC home UPS system pure sine wave out put, single phase input / Single phase output. Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1 No	13500.00
1037	ELEC-12.1.3	Supply and installation of 2000VA, 36VDC home UPS system pure sine wave out put, single phase input / Single phase output. Makes: Servomax / Top Power / Amar Raja / Samhitha / Microtech / Excide / Sucom.	1 No	19200.00
1038	ELEC-12.1.4	Supply and installation of 2.0KVA true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Consul / Power one / Numeric / Emerson.	1 No	29400.00
1039	ELEC-12.1.5	Supply and installation of 3.0KVA, 72VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Consul / Power one / Numeric / Emerson.	1 No	39507.00
1040	ELEC-12.1.6	Supply and installation of 5.0KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Consul / Power one / Numeric / Emerson.	1 No	68250.00
1041	ELEC-12.1.7	Supply and installation of 7.5KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Consul / Power one / Numeric / Emerson.	1 No	94500.00
1042	ELEC-12.1.8	Supply and installation of 10KVA, 180/192VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Consul / Power one / Numeric / Emerson.	1 No	110250.00
1043	ELEC-12.1.9	Supply and installation of 10KVA / 312V DC on line UPS system IGBT based rectifier with input power factor correction 32 bit microprocessor based with isolation transformers double conversion, SNMP controls, LCD display, Pure sine wave out put, with auto static switch three phase input / Three phase output and modular structure for better thermal technology / cooling facility, with warranty up to three years. Makes: Consul / Eaton / APC / Numeric / Emerson.	1 No	148000.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7

1044	ELEC-12.1.10	Supply and installation of 15KVA / 312V DC on line UPS system IGBT based rectifier with input power factor correction 32 bit microprocessor based with isolation transformers double conversion, SNMP controls, LCD display, Pure sine wave out put, with auto static switch three phase input / Three phase output and modular structure for better thermal technology / cooling facility, with warranty up to three years. Makes: Consul / Eaton / APC / Numeric / Emerson.	1 No	169600.00
<b>12.2 UPS BATTERY RACKS AND WIRE LEADS</b>				
1045	ELEC-12.2.1	Supply and providing of UPS cum battery rack up to 4 batteries	1 No	1500.00
1046	ELEC-12.2.2	Supply and providing of UPS cum battery rack 5 to 10 batteries	1 No	2875.00
1047	ELEC-12.2.3	Supply and providing of UPS cum battery rack upto 11 to 20 batteries	1 No	5175.00
1048	ELEC-12.2.4	Supply and fixing of 12V 26 AH SMF battery including wire leads. Makes : Quanta / Racket / Exide.	1 No	3850.00
1049	ELEC-12.2.5	Supply and fixing of 12V 42 AH SMF battery including wire leads. Makes : Quanta / Racket / Exide.	1 No	6446.00
1050	ELEC-12.2.6	Supply and fixing of 12V 65 AH SMF battery including wire leads. Makes : Quanta / Racket / Exide.	1 No	7970.00
1051	ELEC-12.2.7	Supply and fixing of 12V 100 AH SMF battery including wire leads. Makes : Quanta / Racket / Exide.	1 No	9900.00
1052	ELEC-12.2.8	Supply and fixing of 12V 120 AH SMF battery including wire leads. Makes : Quanta / Racket / Exide.	1 No	10500.00
1053	ELEC-12.2.9	Supply and fixing of 12V, 120 AH MF battery including wire leads. Makes : Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1 No	9965.00
1054	ELEC-12.2.10	Supply and fixing of 12V, 150 AH MF battery including wire leads. Makes : Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1 No	12750.00

#### OLD MATERIAL RATES

S.No	Dismantled item :	Unit	Rate
1	PVC insulated alluminium cables and wires	1 Kg	11.00
2	PVC insulated copper cables and wires	1 Kg	50.00
3	Alluminium Maters	1 Kg	62.00
4	MS / Iron poles, angle etc	1 Kg	25.00
5	Copper/Brass materials	1 Kg	140.00
6	PVC pipe/PVC materials.	1 Kg	5.00
7	IC switches/DBs/Feeder pillers.	1 Kg	13.00

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
8		All types of Ammeter/Voltmeter / any meter	1 Kg	25.00
9		All types of ACBs/OCBs/VCBs LT	1 EACH	1300.00
10		All types of ceiling fans/cabin fans/Bracket fans and pedestal fans etc.	1 EACH	150.00
11		All type Tube light fittings/MV/SV/MH fittings.	1 EACH	21.00
12		All types of accessories such as bells/holders/ceiling roses/MCBs/Tube light starters.	1 Kg	11.00
13		All types of Air circulators/Pedestal Type Air Circulators	1 EACH	500.00
14		All types chokes/condensers/Motor starters	1 Kg	17.00
15		Lift ropes/belt types	1 Kg	20.00
16		All types of electric Motors	1 HP	340.00
17		All types of water pumpsets	1 HP	340.00
18		All types of compressors	1 TR	500.00
19		All Types of AC units (window)	1 EACH	1800.00
20		All Types of AC units (Split ACs) ODU	1 EACH	2310.00
21		All Types of Indoor units of Split Acs	1 EACH	800.00
22		Copper piping of Acs	1 Kg	135.00
23		water cooler instant type	1 EACH	900.00
24		Water cooler storage type	1 Ltr	40.00
25		Refrigerator upto 165 Ltr	1 EACH	1452.00
26		Refrigerator above 165 Ltr	1 EACH	2000.00
27		Exhaust fans 9"	1 EACH	150.00
28		Exhaust fans 12"	1 EACH	200.00
29		Exhaust fan 15"	1 EACH	330.00
30		Exhaust fan 18"	1 EACH	400.00
31		Exhaust Fan 24"	1 EACH	500.00
32		Air cooler of any size without fan	1 EACH	500.00
33		Air cooler of any size with fan	1 EACH	800.00



SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE FOR FINAL SOR 2017-18
1	2	3	4	7
34		Transformer Oil	1 Ltr	5.00
35		DG Set	1 KVA	1000.00
36		Transformer	1 KVA	400.00
37		EPABX system	1 EACH	1100.00
38		Telephone instrument	1 EACH	50.00
39		Water Purifier	1 EACH	80.00
40		Invertor/UPS	1 KVA	500.00
41		Voltage stabilizer	1 EACH	500.00
42		Amplifier small	1 EACH	400.00
43		Amplifier Big	1 EACH	450.00
44		Mikes	1 EACH	70.00

**Note: Rates of items which are not covered under above List should be calculated on the basis of materials / equipments considering its site condition and prevailing market rates and approval should be taken from the concerned Superintending Engineer(Electrical)**

# **PUBLIC HEALTH ITEMS**

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
1	<b>RATES OF LABOUR (SKILLED WORKMEN)</b>		
	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	<b>RATES FOR EARTH WORK :</b>		
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 contolled blasting at restricted places		
	NOTE :- Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack measurements.		
4	Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
d.	P.V.C. Pipes and fittings	Per Tonne	
5	Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
6	Loading or unloading materials such as C.I. Pipes, DI pipes, PVC pipes, AC pipes less than 300 mm dia, above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	P.V.C. Pipes and fittings	Per Tonne	

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per Standard data
b.	A.C. Pipes & Specials	Per Tonne	
	Note:- For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hammalae charges if prevailing.		
8. 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)		
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Per Metre	To follow as per Standard data
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	Per Metre	To follow as per Standard data
	800mm dia	Per Metre	557.00
	900mm dia	Per Metre	723.00
	1000mm dia	Per Metre	940.00
	1100mm dia	Per Metre	1158.00
	1200mm dia	Per Metre	1377.00
9. 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	Each Joint	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)		
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Each Joint	To follow as per Standard data
10	Jointing CI/DI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)		
	Diameter of pipe/Fittings/ valve in mm :		
	80mm to 750mm dia	Each Joint	To follow as per Standard data
	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

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
11a	Lowering the RCC plain ended pipes carefully into the trench laying them true to alignment and gradient, jointing RCC pipes with cement joints including curing, the cost of jointing materials i.e., Cement Mortar (1:1.5), hemp yarn etc., and testing including filling with water with a water lead upto 500 metres as per BIS No.783/85.		
	per every 25 mm dia.	Per Metre	21.60
11b	Lowering the RCC S/S pipes carefully into the ready made trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water lead upto 500 meters excluding cost of rubber rings as per BIS No. 783/1985.		
	per every 25 mm dia.		
	80mm to 600mm	Per Metre	To follow as per Standard data
	700mm dia	Per Metre	354.00
	800mm dia	Per Metre	425.00
	900mm dia	Per Metre	509.00
	1000mm dia	Per Metre	609.00
12	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85		
a	G.I. Pipes :Dia in mm		
	15mm to 150mm	Per Metre	To follow as per Standard data
12b	Lowering, Laying, jointing of PVC/HDPE/MDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes including earth work excavation and testing to hydraulic test pressure including cost of water with a water lead of 500m etc., complete.		
	Dia (OD) in mm		
	20mm dia	Per Metre	36.00
	25mm dia	Per Metre	37.00
	32mm dia	Per Metre	42.00
	40mm dia	Per Metre	42.00
	50mm dia	Per Metre	42.00
	Note:(i) The above rates are applicable for the works in District only.		
	(ii) If the depth of excavation is more than 0.6 m separate rates to be worked out.The above rates are excluding road cutting if any.		
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	To follow as per Standard data
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 315mm	Per Metre	To follow as per Standard data

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
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	39.00
	75mm dia OD	Per Metre	43.00
	90mm dia OD	Per Metre	48.00
	110mm dia OD	Per Metre	59.00
	125mm dia OD	Per Metre	70.00
	140mm dia OD	Per Metre	74.00
	160mm dia OD	Per Metre	80.00
	180mm dia OD	Per Metre	88.00
	200mm dia OD	Per Metre	96.00
	225mm dia OD	Per Metre	106.00
	250mm dia OD	Per Metre	112.00
	280mm dia OD	Per Metre	124.00
	315mm dia OD	Per Metre	192.00
	355mm dia OD	Per Metre	214.00
	400mm dia OD	Per Metre	238.00
	450mm dia OD	Per Metre	265.00
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
	Dia of Valve in mm.		
	80mm to 600mm	Each	
17	Labour charges for fixing Air valves including boring the mains and threading the bore fixing nipple etc., complete.		
	Dia of Air valve in mm.		
	25mm dia	Each	To follow as per Standard data
	40mm dia	Each	
	50mm dia	Each	190.00
	65mm dia	Each	204.00
18	Labour charges for fixing Kinetic Air Valves with isolating Sluice valves, Double Air valves/ Air Cushion valve excluding cost of jointing materials such as bolts, nuts and rubber insertions etc., complete.		
	Dia of Air valve in mm.		
	80mm dia (Double Air valves)	Each	254.00
	100mm dia (Double Air valves)	Each	296.00
	125mm dia (Double Air valves)	Each	440.00
	150mm dia (Double Air valves)	Each	482.00
	200mm dia (Double Air valves)	Each	524.00
19	Uprooting C.I./ DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.		
	80mm to 600mm	Per Metre	To follow as per Standard data
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, seperating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.		
	100mm to 300mm	Per Metre	To follow as per Standard data
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.		
	Dia of Pipes in mm		
	15mm to 50mm	Per Metre	To follow as per Standard data

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
22	Cutting C.I./ DI Pipes without water in mains.		
	Dia of Pipes in mm		
	80mm to 600mm	Each cut	To follow as per Standard data
	700mm dia	Each cut	549.00
	750mm dia	Each cut	591.00
	800mm dia	Each cut	629.00
	900mm dia	Each cut	706.00
	1000mm dia	Each cut	785.00
	1100mm dia	Each cut	866.00
	1200mm dia	Each cut	944.00
23	Cutting A.C. Pipes without water in mains.		
	Dia of Pipes in mm		
	80mm dia	Each cut	33.00
	100mm dia	Each cut	33.00
	125mm dia	Each cut	33.00
	150mm dia	Each cut	33.00
	200mm dia	Each cut	35.00
	250mm dia	Each cut	56.00
	300mm dia	Each cut	56.00
	350mm dia	Each cut	70.00
	400mm dia	Each cut	77.00
	450mm dia	Each cut	97.00
	500mm dia	Each cut	108.00
	600mm dia	Each cut	118.00
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 B.T.Road surface	1 Cum	992.00
	b) Cutting C.C.Road Surface	1 Cum	2066.00
	c) Cutting Water Bound Macadam/Wet Mix Macadam Road.	1 Cum	254.00
26	Bailing out water.(For maitenanace works)		
	a) Bailing out water from the pipe line trenches with oil engine driven pumpsets, including hire charges, fuel charges and wages for Driver and Helper.	HP/Hour	57.00
	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	42.00
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

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
29	Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work.		
	a) 0 to 1 m deep under water.	10 Cum	12255.00
	b) 1 to 2 m deep under water.	10 Cum	17553.00
	c) 2 to 5 m deep under water.	10 Cum	26347.00
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	5034.00
	NOTE:- The above rates do not include rock requiring blasting or chiselling.		
30	Laying and jointing perforated RCC pipes inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars.	Per Metre	44.00
	per every 25 mm dia/mtr.		
31	Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.		
a)	for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.		
	1) Slabs for thickness (150 mm to 300 mm)		3765.00
	2) Slabs for thickness above 300 mm, extra for every 50 mm thickness.		450.00
	3) Side walls curved surfaces including both sides of wall per Sqm of member area.		2844.00
	4) Side wall straight surfaces including both sides of wall per Sqm of member area.		2532.00
	5) Top dome	One Sqm of Centering area	1550.00
	6) Bottom Dome.		3084.00
	7) Roof Slab.		850.00
	8) Columns, braces and beams		1269.00
	9) Circular braces, ring beams & circular column.		1393.00
	10) Conical Slab 150 mm to 300 mm thickness		3944.00
	11) Conical Slab for above 300 mm thickness, extra for every 50mm thickness		500.00
	Note:- For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. above 15- up to 18 m --- 9% above 18-up to 21m --- 15% above 21- up to 24 m --- 21% above 24- up to 27m ---27% above 27m --- 30%		
b)	For Ground level works/ Below the ground level works :-		
	1) Slabs	1 Sqm	To follow as per R&B SoR
	2) Beams & Lintels	1 Cum	
	3) Sun shades	1 Sqm	
	4) RCC vertical walls of plane surface including both sides of wall per Sqm of member area	1 Sqm of centering area	1012.00
	5) RCC vertical walls of circular faces including both sides of wall per Sqm of member area.		1288.00
	6) Dome		1417.00
	NOTE: 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/Ground reservoir. For every 3m height or part thereof over the initial lift of 3 m. Rate/1 Cum.	1 Cum	154.00
	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. Rate / 1 cum	1 Cum	47.00
33	Labour charges for fixing ventilating shafts complete with all accessories.	Each	To follow as per Standard data



Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
34	Labour charges for fixing water closets including fixing of foot rests (for all sizes).	Each	Relevant Building SoR items
35	Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete	Each	
36	Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete	Each	
37	Fixing urinal with inlet and waste pipe connections etc., complete.	Each	
38	Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete	10 Cum	
39(a)	Extra allowance for isolated scattered works viz., valve pits, public fountains, meter pits and manholes, etc., complete for maintenance works including cost of material.	Each	50% extra over the basic 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, but excluding cost of pipes, valves and specials.		150% extra over the basic 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.	1 Cum	264.00
41	Well sinking in sandy and other loose soils under water either by manual labour, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc.,		
	Upto 2 m below GL/m	Per metre	To adopt as per Standard data
	From 2 to 4 m below GL/m	Per metre	
	From 4 to 6 m below GL/m	Per metre	
	From 6 to 8 m below GL/m	Per metre	
	From 8 to 10 m below GL/m	Per metre	
	Note:-Below 10 m for every metre depth or part thereof add Rs.250/- per m. For higher dia, observed data is to be prepared and got approved.		
42	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, with seismic analysis Zone -II		Rate for SoR 2017-18
a	500 Kilo litres	Per litre	17.49
b	1000 Kilo litres	Per litre	14.21
c	1500 Kilo litres	Per litre	13.13
d	2000 Kilo litres	Per litre	12.42
e	2500 Kilo litres	Per litre	11.77
	1) The above rates are arrived with base rate of Cement Rs.6200/- per MT & Steel for Rs.41,000/- per MT (Fe-500/500D/550D from Primary Producers) for the month of May-2017		
	2) All concrete components shall be designed with minimum of M30 Design Mix.		
	3) For intermediate capacities proportional rates shall be adopted.		
	4) The foundations shall be designed for Annular Raft Footings. The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for SBC of 15 T/Sqm.		
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by 2.5% on basic rate .		
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by 1.0% on basic rate up to 20 T/Sqm.		
	c) For SBC below 10T/sqm , solid raft shall be provided and for solid raft the rate shall be increased by 10% on basic rates		
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paise on basic rate per litre per every metre decrease in staging.		
	6) For staging above 15 m, the rate shall be increased by Rs.0.10 paise on basic rate per litre per every metre additional staging.		
	7) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc-6200)/6200 x 0.069		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	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-41000)/41000 x 0.135		
	Rs = Rate of Steel (Rs.per MT) (Fe-500/500D/550D from Primary Producers) at the time of preparation of estimate.		
	The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	9 a) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.		
	b) Rate inclusive of 2 coats of weather proof emulsion painting for external surfaces over one coat of primer of approved make, 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 50 kg/sqm decrease in wind pressure, the rate shall be decreased by 2.5%		
	11.a)The Basic rate is adopted by considering the design for Seismic forces for Zone-II only of seismic zones.		
	b) The basic rates shall be increased by 15 % for Zone-III of seismic zones.		
	12. The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities from 500 KL & upto 1000KL.		
	13. The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.		
	14) The basic rate is inclusive of following fixtures		
	i) Pipe connections & Specials with D.I materials		
	a) All pipe conections for Inlet, Out let (2 Nos), Over Flow, Scour pipes shall be provided with D/F DI material. b) The Valves for above pipe connections also shall be of DI material of PN 16 c) All specials such as Bends,Tees, Puddle pipes, 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 Kl ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia and DI Valves 02 Nos Over Flow pipe - 350m dia Scour Pipe - 200mm dia		
	b) For 800 KL to 1500 Kl ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia and DI Valves 02 Nos Over Flow pipe - 450m dia Scour Pipe - 200mm dia		
	c) For above 1500 KL to 2500 Kl ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia and DI Valves 02 Nos Over Flow pipe - 500m dia Scour Pipe - 200mm dia		
	iii) Manhole Frames & Covers		
	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 nets - 8Nos minimum.		
	v) RCC phenial ventilator with fly/bird protection with Copper or Stainless Steel mesh - 1 No.		
	vi) RCC precast ladders of 0.60 m width - 2 Nos.		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	vii) RCC dog legged stair case of 1.00 m flight width and 1.20 m landing width hand railing of 1.2 m height by using Stainless Steel pipe of grade 304, with top railing of 40mm dia pipe, middle railing of 25mm dia and verticals with 40mm dia at an interval not more than 1.00m c/c. - 1 No		
	viii)The staircase shall be enclosed with brick masonry walls on three side and collapsible MS gate on front side up to 1 <sup>st</sup> 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 1.00m c/c.		
	xi) Water Level Indicator of reputed make - Digital type (1 No) and Conventional type (1 No)		
	xii) Lightening Arrestor with all its accessories complete including earthing,with relevant IS Codes - 1 No.		
44	Rates for OHSRs/ELSRs including fixtures with a staging of 12 m for Zone-II Seismic .		Rate for SoR 2017-18
a	Upto 10,000 Litres capacity	Per litre	81.13
b	20,000 Litres capacity	Per litre	48.25
c	40,000 Litres capacity	Per litre	38.84
d	60,000 Litres capacity	Per litre	28.49
e	1,00,000 Litres capacity	Per litre	25.18
f	1,20,000 Litres capacity	Per litre	22.01
g	1,50,000 Litres capacity	Per litre	20.02
h	2,00,000 Litres capacity	Per litre	18.87
i	2,50,000 Litres capacity	Per litre	18.29
j	3,00,000 Litres capacity	Per litre	17.71
k	4,00,000 Litres capacity	Per litre	15.48
l	4,50,000 Litres capacity	Per litre	13.79
	NOTE: -1) For intermediate ranges proportional rates may be adopted. All VRCC minimum of M30 grade design mix.		
	2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.6200/- per tonne for cement and Rs.41,000/- 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-6200)/6200 x 0.069 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-41000)/41000 x 0.135 Rs = Rate of steel (Rs per MT) (Fe-500/500D/550D from Primary Producers)at the time of preparation of estimate.		
	The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	7) Rate inclusive of three coates of food grade epoxy paint to inner surface of the reservoir including roof dome.		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	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 over one coat of primer of approved make, 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 2.5% per every 50 kg/sqm. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.		
	10)If the ELSR is to be designed for seismic forces a) The above rates are applied upto Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 15%.		
	11) Fixtures include :		
	a) RCC or Aluminium ladder inside 0.60 m wide.		
	b) 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 1.20m. S.S railing to stair case upto 1.2m height.		
	c) Lightening arrestor, including conductor and earthing etc with relevant IS codes.		
	d) RCC ventilators with copper or stainless steel fly proof mesh.		
	e) D.I Manholes frame and cover 0.60x0.60 m as per IS specifications (light duty) - 2 Nos.		
	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) The increase in staging shall be at 1.0mt interval.		
	i)The railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20m.		
	j)The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with PVC door of standard make up to 1st brace level from ground level to prevent unauthorized entry.		
	k) D.I swan neck ventilators shall be provided in top dome and slab-4Nos minimum.		
	l) The above rates are exclusive of all inlet, outlet connections and valves but including labour charges for hosting, jointing of material such as rubber insertion, nuts and bolts. All valves near inlet, out let and for scour of ELSRs shall be D.I valves.		
45	Construction of Rapid Gravity Filtration Plant including all civil, mechanical and electrical works using sand as filter media, duly following relavant IS codes in the design of plant components including trial running for 90 days etc., complete.		Rate for SoR 2017-18
	1) 2.0 Mld	Per litre	4.81
	2) 5.0 Mld	Per litre	3.85
	3) 10.0 Mld	Per litre	3.30
	4) 20.0 Mld	Per litre	2.82
	5) 30.00 mld and above.	Per litre	2.49
	NOTE :-		
	a) For intermediate capacities proportional rates may be adopted		
	b) The above rates are applicable with cement @ rate of Rs.6200/-MT and steel of Rs. 41,000/MT (Fe-500/500D/550D from Primary Producers)		
	c)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-6200)/6200 x 0.069 Rc = Rate of cement (Rs per MT) at the time of preparation of estimate only		
	d)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x (Rs-41000)/41000 x 0.135 Rs = Rate of steel (Rs per MT) (Fe-500/500D/550D from Primary Producers) at the time of preparation of estimate.		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	The above formula applicable only for preparation of estimate. The price adjustment shall be adopted on the actual consumption of Steel and Cement.		
	The components of the filtration plant will include the following		
	A) Civil Works (All works of VRCC minimum of M30 design mix)		
	1) Stilling Chamber including Aeration cascade		
	2) Pre-Settling tank shall be provided for 30 MLD and above capacities of WTP for a minimum of 1 hour capacity.		
	3) Raw water channel with Stainless Steel Weir of SS304L Grade material and also with digital flow meters.		
	4) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc, Using 304L Grade Steel.		
	5) Clarifluculator / Flocculation tanks with the components of central driven circular clarifier with scrapper & bridge arrangements made with Stainless Steel Grade 304 L tubes / angulars for durability & chemical resistant with wheel arrangements etc,.		
	6) Filter house, Chemical house, Alum store, Laboratory room , Chlorination plant room, toilet etc. (All structures shall be provided with 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 UPVC. The entrance door shall be minimum size of 2.40 X 2.40 mts.		
	9) All pipes and valves in Plant shall be of D.I. materials. All the Connecting pipes of the plant components such as from Flash mixer to Clarifloculator/ Clarifier/ Flocculation tank, to Filter beds, sludge disposal pipes shall be of D.I. material. The size of sludge disposal pipe shall be minimum of 450 mm dia with D.I D/F pipe.		
	10) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be sufficiently spaced for easy operation, maintenance and inspection .		
	11) The bottom level of the wash water control chamber must be above G.L so as to dispose the wash water and sludge from Clarifloculator by gravity to disposal point.		
	Additional specifications		
	12) Railing for all the components (Clarifloculator, Filter House, Staircase etc.) shall be provided with Stainless Steel of grade 304 for a height of 1.00m, with 40mm dia pipe for top 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 1.80mts from floor level in chemical room and 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.		
	20) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	<p>21A) <b>Chlorinator</b> : Vaccum type chlorinator shall be provided with following specifications:</p> <p>a) Vaccum operated solution feed type Vaccum Regulator, Rotometer, Rate setting Valve, built-in NRV, Gas Overflow out let by manifolding to mount the system with the unit.</p> <p>b) The unit shall consists of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacum relief Valves - for control of chlorinator dosage.</p> <p>c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel seamless pipes, copper tube with brass fittings of suitable size &amp; dimensions, with diaphragm sealed chlorine pressure gauge arrangements.</p>		
	<p>d) Water Booster Pump of pumping capacity ranging from 2 cum/hr to 12 cum/hr, with Head ranging from 16 to 35 MWC</p> <p>e) The water &amp; solution carrying pipes shall be made of UPVC material of suitable size incl.all specials such as Tee's , Bends, couplings &amp; NRVs and also Pressure Gauges of suitable range.</p> <p>f) Chlorine Gas detector with alarm indicator.</p> <p>The installation includes all necessary accessories, civil and mechanical works, manifold header installations, injector fixing, connection with UPVC pipes, solution pipings, fixing of motors as per standard specifications and commissioning of Chlorination plant to the required demand, with a defect liability period of 1 year.</p> <p>The chlorinator may be of any reputed make or any make of Metito/Toshocow-</p>		
	g) Life breathing operators.		
	h) Chlorine escape BA Set.		
	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> <p>a) Flocculator Drive Mechanisms These will consist of suitable H.P geared electric motor mounted on M S Frame work on bridge platform.</p> <p>b) Flocculating Mechanisms and raking in the flocculation compartment . These will consist of vertical shafts and arms, paddles, guides, bearings etc with stainless steel bush bearing for the shafts at the bottom.</p> <p>c) Mechanism for raking in clarifier compartment</p>		
	<p>d) <b>Revolving Bridge</b> This will be made of suitable sections with torsion proof fabrication of required length and width of 1.22 m. 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) <b>Bridge Drive</b> The Bridge will be driven by an electrically operated geared motor with suitable H.P.</p>		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	<p><b>f) Bridge Drive Mechanisms</b> 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><b>g) Electrical Arrangements</b> 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 1262 / IS 1267</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.		
	<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 - Sets of completion plans and maintenance manual and brochures.		
	5) All cables shall be with of copper material, Cable ducts shall be covered with MS / Aluminum chequed plate.		
	6) Yard lighting shall be provided at 6 locations with required fixtures..		
	<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.		

Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
	<b>Hardware:</b>		
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out lets with accessories.		
	ii)Electrode Type: General type, Scraper type or replaceable type Electrode made with material of SS external Ultra Touch Sensors as per requirement.		
	iii)Customised Application Requirement : Sensors with Interface logic control board with serial interfaces, On - sensor Board Buffer, Timer, RS485 Communication, Analog to Digital Sensing Sensor Circuit, 32 Sensors Sensing Tags, Interval Power Supply System , LCD 16c/2L, Filter Bed Working Status Indication LED, Filter Bed Wash Indication Button and memory of Data Storage for 30Days , status of Filter Bed Level indicator, Rating, Reading on LCD Display, Menu Driven Data for sending to Onsite Big Display, operated with Battery Power of any reputed make or any equivalent make.		
	iv)Customised Application Requirement: Power Sensors Interface logic control board with support 8 Power Sensing tags, Central System Interfacing Communication, On - board analog to Digit Convert Integrate Circuit of any reputed make or any equivalent make.		
	v)Customised Application Requirement: Centralized System with two serial interfaces, 3 Nos of Add-On ports, One external DC Power Socket, On - Board Buffer, On - Board Timer, On - Board RS485 Communication, On - Board RS 232 Communication, On - Board GPRS/GSM Module, On - Board Voice Chip, On - Board Power Sensing Module, LCD 16c/2L, Filter Bed Wash Precaution Indication with Stop Button, Memory of Data Storage for 30 Days, Total Bed Rating, Reading display on LCD Display, Menu Driven, Menu Navigate Keypad, 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 requirements:		
	Onsite Display: Letters with size of 1.5' Seven Sigmoid LED Display with Interface for each Filter Bed, for Onsite Display, by displaying the Bed Levels, Ratings, Readings in 3 Columns , for each bed of the plant in successive rows and cumulative results at the bottom of the screen.		
	Off Site Display: Letters with size of 1.5' seven Sigmoid LED Display with Interface GPRS/GSM Modules Offsite Display, with Display of Bed Total Rating, Total Cumulative Reading as specified on On-site Display Features.		
	The system shall have also the features of Onsite Bed Wash Voice Precautions for Bed Levels, Readings, Ratings, Bed Capacity Readings and Ratings and Bed Low Level Triggering, before & after Bed wash.		
	The software shall also have the features of sending messages to the mobiles of the Departmental designatories indicating Bed Low Levels,Power Supply timings, Bed Wash timings and its status, Power Supply timings and its status Grid View Table, Motor Working time and its status Grid View Table, all trigger events and schedule information and including all Snap View Reports, all Daily, Monthly, Yearly Reports, all Power Working Reports, all Power Events Information etc.,		
<b>46</b>	<b>Water Meters</b>		
	<b>Description</b>		
<b>A</b>	<b>Mechanical Flow meter (Domestic meters)</b>		
<b>1</b>	Supply of magnetically coupled, multijet, inferential type, dry dial class-B water meters (Screwed end) manufactured in accordance with ISO 4064 standards and its latest ammendments/IS 779/1994 and its latest ammendments and shall have ISI/EEC/MID pattern approval (valid life cyce certificate and IP 68 protection from FCRI, GOI). (Including all Taxes-with 3 years warranty)	Unit	<b>Rates for SoR 2017-18</b>
	15 mm Dia	Each	1200.00
	20 mm Dia	Each	1800.00
<b>2</b>	Installation & fixing cost of water meter.	Each	150.00



Sl. No.	Description	Unit	SoR for 2017-18
1	2	3	4
<b>B</b>	<b>Electromagnetic Flow Meters (Bulk Flow Meter)</b>		
	Supply & delivery of Electromagnetic Flow meter, manufacturer should have ISO 9001:2008 certification and flow meter testing confirming to ISO 17025; Flow meter Tube: SS 304; Flanges: Carbon Steel as per DIN PN 10 or higher rating as per requirement; Liner: Hard Rubber or PTFE suitable for drinking water application; Grounding: Grounding Rings SS 304 /Grounding Electrodes of material SS 316; Coil Housing and Junction Box: SS 304 /Die Cast Aluminum/ Carbon Steel with anticorrosive epoxy coating of minimum thickness 150 microns/ equivalent as per EN ISO-12944 standard (as per the site condition) ; Ingress Protection: IP 68 for sensor and IP 67 for transmitter; Flow Transmitter Accuracy: +/- 0.5% of the measured value for velocities 0.5 m/sec and above; Display: Digital LCD/LED (backlit LCD / LED ) Display, Instantaneous flow, Bi-Directional flow and Totalized flow; Cable between Flow Head and Transmitter: Maximum 25 meters including PVC conduit; Surge Arrester: To be provided; Power Supply & Output: 230 V AC or 24 V DC as applicable to Site condition & 4-20 mA HART; Compatible to SCADA/WEB Based Data acquisition System; Flow meter test lab certification should be provided from NABL approved lab/FCRI ; Excluding taxes and duties with 5 years Warranty.(Make: M/s Krohne Marshall/Endress+Hauser/ Yokogawa /Siemens/ Emerson/ABB/ or equivalent make)	Unit	<b>Rates for SoR 2017-18</b>
	100 mm dia	Each	102870
	150 mm dia	Each	113473
	200 mm dia	Each	143061
	250 mm dia	Each	162200
	300 mm dia	Each	194526
	400 mm dia	Each	326719
	450 mm dia	Each	352004
	500 mm dia	Each	385748
	600 mm dia	Each	443313
	700 mm dia	Each	500904
	800 mm dia	Each	597413
	900 mm dia	Each	700812
	1000 mm dia	Each	749938
	1100 mm dia	Each	1242000
	1200 mm dia	Each	1354500

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

Sl. No.	Description				
1	2				
1	<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 2017-18		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	152		
	100 mm dia	Metre	176		
	150 mm dia	Metre	211		
	200 mm dia	Metre	254		
	225 mm dia	Metre	275		
	250 mm dia	Metre	294		
	300 mm dia	Metre	421	940	961
	350 mm dia	Metre	526	1198	1219
	400 mm dia	Metre	605	1325	1351
	450 mm dia	Metre	740	1513	1529
	500 mm dia	Metre	812	1644	1872
	600 mm dia	Metre	1209	2455	2879
	700 mm dia	Metre	1547	3035	3824
	800 mm dia	Metre	1890	3998	4985
	900 mm dia	Metre	2363	5003	6196
	1000 mm dia	Metre	2860	6228	8447
	1100 mm dia	Metre	3428	7312	9764
	1200 mm dia	Metre	4080	8595	11401
	1400 mm dia	Metre	5534	11107	15728
	1600 mm dia	Metre	6422	14338	18867
	1800 mm dia	Metre	8407	18919	25199

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.6,200/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.39,000/- 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. 39,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs.6,200/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

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

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

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

Sl.No.	Description				
1	2				
1	<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>				
	Size	Unit	SoR For 2017-18		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	46		
	100 mm dia	Each	47		
	150 mm dia	Each	50		
	200 mm dia	Each	68		
	225 mm dia	Each	70		
	250 mm dia	Each	79		
	300 mm dia	Each	104	149	149
	350 mm dia	Each	127	183	183
	400 mm dia	Each	142	210	210
	450 mm dia	Each	222	279	279
	500 mm dia	Each	253	333	333
	600 mm dia	Each	343	434	434
	700 mm dia	Each	442	582	582
	800 mm dia	Each	621	739	739
	900 mm dia	Each	743	863	863
	1000 mm dia	Each	870	1078	1078
	1100 mm dia	Each	1064	1361	1361
	1200 mm dia	Each	1289	1703	1703
	1400 mm dia	Each	1665	2155	2155
	1600 mm dia	Each	2122	2759	2759
	1800 mm dia	Each	2211	3548	3548

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.6,200/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.39,000/- 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. 39,000/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,200/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

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

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

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

Sl. No.	Description				
1	2				
1	<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 2017-18		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	189		
	100 mm dia	Metre	214		
	150 mm dia	Metre	253		
	200 mm dia	Metre	309		
	225 mm dia	Metre	338		
	250 mm dia	Metre	361		
	300 mm dia	Metre	507	1195	1266
	350 mm dia	Metre	651	1567	1591
	400 mm dia	Metre	719	1738	1765
	450 mm dia	Metre	894	1917	1930
	500 mm dia	Metre	1028	2185	2361
	600 mm dia	Metre	1455	3058	3129
	700 mm dia	Metre	1887	3877	4035
	800 mm dia	Metre	2400	5120	5259
	900 mm dia	Metre	3014	6412	6593
	1000 mm dia	Metre	3645	7293	7874
	1100 mm dia	Metre	4319	8567	9066
	1200 mm dia	Metre	4902	10088	10592
	1400 mm dia	Metre	6932	13350	14958
	1600 mm dia	Metre	8567	17245	17958
	1800 mm dia	Metre	9679	22758	23972

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.6,200/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.39,000/- per MT. (including all taxes and freight).

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

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

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

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

S1 = Rs. 39,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs.6,200/- , C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

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

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

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

Sl.No.	Description				
1	2				
1	<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 2017-18		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Metre	245	277	312
	100 mm dia	Metre	278	329	378
	150 mm dia	Metre	383	490	602
	200 mm dia	Metre	448	637	838
	225 mm dia	Metre	503	723	933
	250 mm dia	Metre	550	775	981
	300 mm dia	Metre	744	1122	1391
	350 mm dia	Metre	928	1554	2010
	400 mm dia	Metre	1099	2054	2645
	450 mm dia	Metre	1183	2430	3268
	500 mm dia	Metre	1559	2652	3723
	600 mm dia	Metre	2135	3946	5180
	700 mm dia	Metre	2828	5191	6605
	800 mm dia	Metre	3542	6203	8025
	900 mm dia	Metre	4280	7325	
	1000 mm dia	Metre	5353	8444	
	1100 mm dia	Metre	6408		
	1200 mm dia	Metre	7569		

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.6,200/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.39,000/- 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. 39,000/-

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

C1 = Rs. 6,200/-, 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 2017-18</b>		
			<b>NP - 2 Class</b>	<b>NP - 3 Class</b>	<b>NP - 4 Class</b>
	80 mm dia	Each	27		
	100 mm dia	Each	34		
	150 mm dia	Each	60		
	200 mm dia	Each	70		
	225 mm dia	Each	78		
	250 mm dia	Each	87		
	300 mm dia	Each	106	137	137
	350 mm dia	Each	123	163	163
	400 mm dia	Each	135	185	185
	450 mm dia	Each	153	210	210
	500 mm dia	Each	201	240	240
	600 mm dia	Each	264	350	350
	700 mm dia	Each	358	418	418
	800 mm dia	Each	455	507	507
	900 mm dia	Each	569	686	686
	1000 mm dia	Each	666	827	827
	1100 mm dia	Each	800	1059	1059
	1200 mm dia	Each	1281	1331	1331
	1400 mm dia	Each	1409	1465	1465
	1600 mm dia	Each	1755	1788	1788
	1800 mm dia	Each	2185	2284	2284
<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	27	27	27
	100 mm dia	Each	34	36	36
	150 mm dia	Each	60	60	60
	200 mm dia	Each	70	70	70
	225 mm dia	Each	78	79	81
	250 mm dia	Each	87	89	91
	300 mm dia	Each	106	112	117
	350 mm dia	Each	123	141	153
	400 mm dia	Each	135	185	189

	<b>Size</b>		<b>P1 - Class</b>	<b>P2 - Class</b>	<b>P3 – Class</b>
	450 mm dia	Each	153	212	217
	500 mm dia	Each	201	240	251
	600 mm dia	Each	264	297	302
	700 mm dia	Each	358	393	418
	800 mm dia	Each	455	503	503
	900 mm dia	Each	569	634	
	1000 mm dia	Each	666	765	
	1100 mm dia	Each	800		
	1200 mm dia	Each	998		

**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 2017-18</b>				
		<b>NP - 2 Class</b>		<b>NP - 3 Class &amp; NP - 4 Class</b>	
	80 mm dia	3.50	0.15		
	100 mm dia	4.60	0.15		
	150 mm dia	6.90	0.30		
	200 mm dia	9.20	0.30		
	225 mm dia	10.40	0.46		
	250 mm dia	11.60	0.46		
	300 mm dia	16.20	0.61	45.00	1.24
	350 mm dia	23.10	1.39	48.50	1.39
	400 mm dia	25.40	1.53	57.80	1.85
	450 mm dia	33.50	1.85	62.40	2.15
	500 mm dia	35.80	2.15	68.10	2.15
	600 mm dia	52.00	3.38	102.80	4.77
	700 mm dia	65.80	4.77	114.30	5.54
	800 mm dia	77.40	4.77	137.40	5.54
	900 mm dia	88.90	4.77	180.20	10.46
	1000 mm dia	131.70	9.83	217.10	10.46
	1100 mm dia	144.40	9.83	235.60	11.38
	1200 mm dia	164.00	10.46	263.30	11.38
	1400 mm dia	197.50	10.46	358.10	11.84
	1600 mm dia	228.70	10.46	429.70	11.84
	1800 mm dia	263.30	10.46	572.90	16.61



## 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) for 2017-18</b>				
	<b>Size</b>	<b>NP - 2 &amp; P1 Class</b>		<b>NP - 3 &amp; NP - 4 Class</b>	
	80 mm dia	4.60	0.14		
	100 mm dia	4.60	0.27		
	150 mm dia	8.10	0.27		
	200 mm dia	10.40	0.56		
	225 mm dia	11.60	0.56		
	250 mm dia	12.70	1.26		
	300 mm dia	20.80	1.40	53.10	1.68
	350 mm dia	24.30	1.53	57.80	1.95
	400 mm dia	24.30	1.82	71.60	3.64
	450 mm dia	34.70	1.95	78.50	3.64
	500 mm dia	38.10	2.10	86.60	3.92
	600 mm dia	49.70	3.64	116.70	5.59
	700 mm dia	61.20	3.92	157.10	11.05
	800 mm dia	84.30	6.01	186.00	11.05
	900 mm dia	125.90	10.76	214.80	11.05
	1000 mm dia	143.20	10.76	226.40	11.05
	1100 mm dia	161.70	11.05	242.60	11.05
	1200 mm dia	180.20	11.05	271.40	11.32
	1400 mm dia	224.10	11.05	363.80	11.32
	1600 mm dia	265.70	11.32	429.70	12.16
	1800 mm dia	329.20	11.32	572.90	16.63
		<b>P2 - Class</b>		<b>P3 - Class</b>	
	80 mm dia	4.60	0.14	4.60	0.14
	100 mm dia	4.60	0.27	4.60	0.27
	150 mm dia	8.10	0.27	8.10	0.27
	200 mm dia	10.40	0.56	13.90	1.26
	225 mm dia	13.90	1.26	16.20	1.40
	250 mm dia	15.00	1.40	19.60	1.53
	300 mm dia	28.90	1.68	33.50	1.82
	350 mm dia	35.80	1.95	46.20	2.10
	400 mm dia	42.70	2.10	61.20	3.64
	450 mm dia	54.30	3.50	76.20	3.64
	500 mm dia	61.20	3.64	92.40	5.45
	600 mm dia	80.90	3.64	134.00	6.99
	700 mm dia	121.30	7.40	195.20	11.05
	800 mm dia	160.50	10.49	249.50	11.05
	900 mm dia	195.20	11.05		
	1000 mm dia	240.20	11.32		

## 8. S o R FOR A.C. PIPES

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

Sl.No	Description					
1	<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>					
	Size	Unit	SoR For 2017-18			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Rate/Metre	211	232	289	
	100 mm dia	Rate/Metre	277	354	434	
	125 mm dia	Rate/Metre	362	450	566	
	150 mm dia	Rate/Metre	508	634	797	
	200 mm dia	Rate/Metre	841	1079	1369	
	250 mm dia	Rate/Metre	1066	1385	1734	
	300 mm dia	Rate/Metre	1490	1946	2486	
	350 mm dia	Rate/Metre	1814	2360	2979	
	400 mm dia	Rate/Metre	2358	3089	3834	
	450 mm dia	Rate/Metre	2808	3730	4668	
	500 mm dia	Rate/Metre	3460	4557	5721	
	600 mm dia	Rate/Metre	4921	6433	8196	
	700 mm dia	Rate/Metre	6463	8766	11335	
	750 mm dia	Rate/Metre	7365	10120	12970	
	800 mm dia	Rate/Metre	8426	11466	14715	
	850 mm dia	Rate/Metre	9453	12897	16569	
	900 mm dia	Rate/Metre	10538	14410	18534	
	1000 mm dia	Rate/Metre	13008	17690	22791	
2	<b>Lowering, laying and jointing of AC pressure pipes with ac couplings or CID joints complete with Rubber rings in readymade trenches true to alignment and gradient including filling with water lead upto 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/1972</b>					
	80 mm dia	Rate/Metre	37	37	37	
	100 mm dia	Rate/Metre	55	55	55	
	125 mm dia	Rate/Metre	60	60	60	
	150 mm dia	Rate/Metre	71	71	71	
	200 mm dia	Rate/Metre	93	93	93	
	250 mm dia	Rate/Metre	112	112	112	
	300 mm dia	Rate/Metre	139	139	139	
	350 mm dia	Rate/Metre	235	235	235	
	400 mm dia	Rate/Metre	353	353	353	
	450 mm dia	Rate/Metre	429	429	429	
	500 mm dia	Rate/Metre	546	546	546	

	600 mm dia	Rate/Metre		587	587	587
	700 mm dia	Rate/Metre		655	655	655
	750 mm dia	Rate/Metre		729	729	729
	800 mm dia	Rate/Metre		767	767	767
	850 mm dia	Rate/Metre		818	818	818
	900 mm dia	Rate/Metre		893	893	893
	1000 mm dia	Rate/Metre		919	919	919
	<p>1. The above rates of AC Pipes are based on the Cement cost of RS 6,200/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 78,500/- 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 <math>W</math> = Weight of pipe in Kg's/Rmt  <math>IC</math> = 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 : <math>W</math> = Weight of pipe in Kg's/Rmt  <math>IF</math> = 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).				5% on the basic cost of corresponding AC Pressure pipes.	

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

## 9. S o R FOR A.C. COUPLINGS

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

Sl.No	Description					
1	2					
1	<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 2017-18			
0			Class - 15	Class - 20	Class - 25	
	80 mm dia	Rate/Each	98	105	121	
	100 mm dia	Rate/Each	126	138	164	
	125 mm dia	Rate/Each	159	174	211	
	150 mm dia	Rate/Each	185	232	286	
	200 mm dia	Rate/Each	340	376	478	
	250 mm dia	Rate/Each	398	504	639	
	300 mm dia	Rate/Each	520	675	868	
	350 mm dia	Rate/Each	672	868	1108	
	400 mm dia	Rate/Each	1036	1351	1727	
	450 mm dia	Rate/Each	1240	1635	2096	
	500 mm dia	Rate/Each	1478	1975	2520	
	600 mm dia	Rate/Each	1829	2301	2944	
	<b>700 mm dia</b>	Rate/Each	2399	3231	4201	
	<b>750 mm dia</b>	Rate/Each	2707	3700	4775	
	<b>800 mm dia</b>	Rate/Each	3071	4163	5389	
	<b>850 mm dia</b>	Rate/Each	3421	4657	6040	
	<b>900 mm dia</b>	Rate/Each	3785	5178	6722	
	<b>1000 mm dia</b>	Rate/Each	4620	6295	8205	

1. The above rates of AC Coupling are based on the Cement cost of RS.6,200/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 78,500/- 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.

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

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

Sl. No.	Description					
1	2					
1	Schedule of rate for supply of Rubber rings manufactured as per BIS: 5382/1988 with BIS Mark embossed per each set suitable for A.C*. Couplings including cost of material, incidental, handling, packing, transportation and unloading at site transit risk etc., but excluding VAT. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988					
	Size	Unit	SoR For 2017-18			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Each Set	71	71	71	
	100 mm dia	Each Set	87	87	87	
	125 mm dia	Each Set	113	113	113	
	150 mm dia	Each Set	143	143	143	
	200 mm dia	Each Set	149	149	149	
	250 mm dia	Each Set	172	172	172	
	300 mm dia	Each Set	172	172	172	
	350 mm dia	Each Set	195	195	195	
	400 mm dia	Each Set	239	239	239	
	450 mm dia	Each Set	280	280	280	
	500 mm dia	Each Set	324	324	324	
	600 mm dia	Each Set	368	368	368	
	700 mm dia	Each Set	763	763	763	
	750 mm dia	Each Set	793	793	793	
	800 mm dia	Each Set	852	852	852	
	850 mm dia	Each Set	949	949	949	
	900 mm dia	Each Set	998	998	998	
	1000 mm dia	Each Set	1106	1106	1106	

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

**11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2017-18**

Sl.No.	Description							
<b>1</b>	<b>2</b>							
<b>1</b>	<b>Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes &amp; duties., for the following field test pressures.(the manufacture shall design the pipes as per the IS Code 784-2001)</b>							
	Size	Unit	SoR For 2017-18.					
			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	3017	3027	3040	3052	3112	3218
	400 mm dia	Metre	3247	3270	3303	3343	3403	3451
	450 mm dia	Metre	3470	3485	3522	3586	3674	3750
	500 mm dia	Metre	3756	3770	3796	3873	3950	4062
	600 mm dia	Metre	4317	4344	4385	4513	4652	4788
	700 mm dia	Metre	5055	5120	5236	5375	5524	5727
	800 mm dia	Metre	6125	6253	6391	6573	6764	7059
	900 mm dia	Metre	7027	7198	7378	7677	7910	8462
	1000 mm dia	Metre	8279	8503	8737	8972	9259	9895
	1100 mm dia	Metre	9280	9536	9823	10110	10401	11194
	1200 mm dia	Metre	10435	10775	11094	11320	11865	12897
	1300 mm dia	Metre	11822	12205	12588	12972	14095	14568
	1400 mm dia	Metre	13658	14106	14564	15320	16314	17004
	1500 mm dia	Metre	15417	15950	16450	17806	18499	20618
	1600 mm dia	Metre	17345	17920	18496	20102	20896	22943
	1700 mm dia	Metre	18605	19276	19935	21627	23932	25071
	1800 mm dia	Metre	20589	21855	22983	24851	25749	28557
	1900 mm dia	Metre	21988	23153	25102	26499	28739	30970
	2000 mm dia	Metre	24166	25620	26898	29271	32206	33516
<b>2</b>	<b>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.</b>							
	350 mm dia	Metre	224	224	224	224	224	224
	400 mm dia	Metre	242	242	242	242	242	242







	1900 mm dia	Per Pair	84713	84713	84713	84713	84713	84713
	2000 mm dia	Per Pair	101885	101885	101885	101885	101885	101885
<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	703	500mm diax 20 mm thick	Each Flange	7154		
	100 mm diax 15 mm thick	Each Flange	965	600 mm diax 20 mm thick	Each Flange	9005		
	125 mm diax 15 mm thick	Each Flange	1159	700 mm diax 25 mm thick	Each Flange	12737		
	150 mm diax 15 mm thick	Each Flange	1544	750 mm diax 25 mm thick	Each Flange	14024		
	200 mm diax 15 mm thick	Each Flange	1929	800 mm diax 25 mm thick	Each Flange	15695		
	250 mm diax 15 mm thick	Each Flange	2509	900 mm diax 25 mm thick	Each Flange	18011		
	300 mm diax 15 mm thick	Each Flange	2842	1000 mm diax 25 mm thick	Each Flange	21227		
	350 mm diax 18 mm thick	Each Flange	4143	1050 mm diax 25 mm thick	Each Flange	22488		
	400 mm diax 18 mm thick	Each Flange	5172	1100 mm diax 25 mm thick	Each Flange	24314		
	450 mm diax 18 mm thick	Each Flange	6008	1200 mm diax 32 mm thick	Each Flange	32291		

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.53,500/-MT (Basic+ CED+ST & freight).  
and cement price of Rs.6,200/- 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. 53,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,200/- 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.46,000/- 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 2017-18

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 2017-18								
			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	5317	5317	5317	5317	5343	5396	5486	5573	5639
	450 mm dia	Meter	5780	5780	5780	5806	5871	5949	6045	6086	6137
	500 mm dia	Meter	6167	6167	6227	6278	6329	6400	6481	6542	6603
	600 mm dia	Meter	7093	7163	7235	7316	7387	7458	7580	7671	7753
	700 mm dia	Meter	8064	8155	8257	8349	8450	8542	8713	8816	8948
	800 mm dia	Meter	9493	9605	9727	9859	9981	10103	10286	10458	10601
	900 mm dia	Meter	10812	10974	11127	11289	11452	11614	12048	12261	12514
	1000 mm dia	Meter	12980	13173	13367	13570	13763	13966	14540	14824	15108
	1100 mm dia	Meter	14429	14663	14906	15140	15384	15618	16322	16637	16997
	1200 mm dia	Meter	16047	16332	16606	16891	17186	17470	18305	18696	19093
	1300 mm dia	Meter	17949	18284	18619	18955	19290	19935	20618	21114	21652
	1400 mm dia	Meter	20126	20542	20968	21434	22271	22803	23591	23808	24724
	1500 mm dia	Meter	23644	24156	24593	25040	25915	26413	27076	28083	28642
	1600 mm dia	Meter	26656	27350	27933	28869	29438	30068	31201	31831	32461
	1700 mm dia	Meter	28695	29453	30023	31090	31731	33081	33799	34520	35251
	1800 mm dia	Meter	31418	32260	33910	34932	35932	37810	39398	40202	41025
	1900 mm dia	Meter	36443	37164	38426	39216	40818	41712	42614	43519	44423
	2000 mm dia	Meter	38480	39801	40676	41561	43347	44332	45337	46334	47349

2	<b>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.</b>											
	400 mm dia	Meter	471	471	471	471	471	471	471	471	471	471
	450 mm dia	Meter	554	554	554	554	554	554	554	554	554	554
	500 mm dia	Meter	604	604	604	604	604	604	604	604	604	604
	600 mm dia	Meter	707	707	707	707	707	707	707	707	707	707
	700 mm dia	Meter	805	805	805	805	805	805	805	805	805	805
	800 mm dia	Meter	924	924	924	924	924	924	924	924	924	924
	900 mm dia	Meter	1042	1042	1042	1042	1042	1042	1042	1042	1042	1042
	1000 mm dia	Meter	1141	1141	1141	1141	1141	1141	1141	1141	1141	1141
	1100 mm dia	Meter	1294	1294	1294	1294	1294	1294	1294	1294	1294	1294
	1200 mm dia	Meter	1411	1411	1411	1411	1411	1411	1411	1411	1411	1411
	1300 mm dia	Meter	1511	1511	1511	1511	1511	1511	1511	1511	1511	1511
	1400 mm dia	Meter	1663	1663	1663	1663	1663	1663	1663	1663	1663	1663
	1500 mm dia	Meter	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846
	1600 mm dia	Meter	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
	1700 mm dia	Meter	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
	1800 mm dia	Meter	2386	2386	2386	2386	2386	2386	2386	2386	2386	2386
	1900 mm dia	Meter	2602	2602	2602	2602	2602	2602	2602	2602	2602	2602
	2000 mm dia	Meter	2770	2770	2770	2770	2770	2770	2770	2770	2770	2770
3	<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	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
	450 mm dia	Per KM/M	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
	500 mm dia	Per KM/M	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
	600 mm dia	Per KM/M	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	700 mm dia	Per KM/M	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
	800 mm dia	Per KM/M	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
	900 mm dia	Per KM/M	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
	1000 mm dia	Per KM/M	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29
	1100 mm dia	Per KM/M	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29

	1200 mm dia	Per KM/M	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	1300 mm dia	Per KM/M	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	1400 mm dia	Per KM/M	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	1500 mm dia	Per KM/M	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	1600 mm dia	Per KM/M	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	1700 mm dia	Per KM/M	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57
	1800 mm dia	Per KM/M	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57
	1900 mm dia	Per KM/M	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57	12.57
	2000 mm dia	Per KM/M	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35

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

HT Wire: - Rs.53,500/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.46,500/- (including all taxes & freight)

Cement Cost Rs. 6,200/- 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 =  $(H2 - H1) / 1000 \times W_h$ .

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

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

H1 = Rs. 53,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 46,500/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 6,200/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

W<sub>h</sub> = Weight of HT Wire required (Kg.) per metre of pipe. W<sub>c</sub> = Weight of Cement required (Kg.) per meter of pipe.

W<sub>r</sub> = 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



	900 mm dia	Meter	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199
	1000 mm dia	Meter	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325
	1100 mm dia	Meter	1557	1557	1557	1557	1557	1557	1557	1557	1557	1557
	1200 mm dia	Meter	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743
<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	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
	300 mm dia	Per KM/M	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
	350 mm dia	Per KM/M	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	400 mm dia	Per KM/M	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
	450 mm dia	Per KM/M	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
	500 mm dia	Per KM/M	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
	600 mm dia	Per KM/M	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
	700 mm dia	Per KM/M	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
	800 mm dia	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	900 mm dia	Per KM/M	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
	1000 mm dia	Per KM/M	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59
	1100 mm dia	Per KM/M	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02
	1200 mm dia	Per KM/M	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20

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

HR Plates - Rs.46,500/- per MT (Basic +CED+ST & freight), Wire rods - Rs.39,000/- per MT (Basic +CED+ST & freight)

Cement Cost Rs. 6,200/- 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 = $(H2-H1)/1000 \times W_h$ .

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

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

H1 = Rs. 46,500/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 39,000/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

C1 = Rs. 6,200/- 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 2017-18**

Sl.No.	Description	Unit	Thicknes s in mm	Rate (Rs.)
1	2	3	4	5
1	<b>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 shorterceting or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labour charges, transportation to anywhere in T.G, but excluding taxes &amp; duties, etc.</b>			
	500 mm dia	Metre	8.00	8884
	500 mm dia	Metre	10.00	10468
	600 mm dia	Metre	8.00	10564
	600 mm dia	Metre	10.00	12448
	700 mm dia	Metre	8.00	12186
	700 mm dia	Metre	10.00	14398
	800 mm dia	Metre	8.00	13806
	800 mm dia	Metre	10.00	16310
	800 mm dia	Metre	12.00	18823
	900 mm dia		8.00	15463
	900 mm dia	Metre	10.00	18221
	900 mm dia	Metre	12.00	21017
	1000 mm dia	Metre	8.00	17153
	1000 mm dia	Metre	10.00	20240
	1000 mm dia	Metre	12.00	23327
	1000 mm dia	Metre	14.00	26377
	1100 mm dia	Metre	10.00	22092
	1100 mm dia	Metre	12.00	25471
	1100 mm dia	Metre	14.00	28850
	1100 mm dia	Metre	16.00	32287
	1200 mm dia	Metre	10.00	24111
	1200 mm dia	Metre	12.00	27782
	1200 mm dia	Metre	14.00	31406
	1200 mm dia	Metre	16.00	35084
	1200 mm dia	Metre	18.00	38754
	1300 mm dia	Metre	10.00	26012
	1300 mm dia	Metre	12.00	29923
	1300 mm dia	Metre	14.00	33884
	1300 mm dia	Metre	16.00	37904
	1300 mm dia	Metre	18.00	41868
	1300 mm dia	Metre	20.00	45838

## Public Health Engineering Items

	1400 mm dia	Metre	10.00	27933
	1400 mm dia	Metre	12.00	32185
	1400 mm dia	Metre	14.00	36438
	1400 mm dia	Metre	16.00	40738
	1400 mm dia	Metre	18.00	45000
	1400 mm dia	Metre	20.00	49312
	1400 mm dia	Metre	22.00	53565
	1500 mm dia	Metre	10.00	29882
	1500 mm dia	Metre	12.00	34428
	1500 mm dia	Metre	14.00	38923
	1500 mm dia	Metre	16.00	43468
	1500 mm dia	Metre	18.00	48071
	1500 mm dia	Metre	20.00	52616
	1500 mm dia	Metre	22.00	57274
	1500 mm dia	Metre	24.00	61819
	1600 mm dia	Metre	10.00	31859
	1600 mm dia	Metre	12.00	36637
	1600 mm dia	Metre	14.00	41520
	1600 mm dia	Metre	16.00	46357
	1600 mm dia	Metre	18.00	51201
	1600 mm dia	Metre	20.00	56038
	1600 mm dia	Metre	22.00	60933
	1600 mm dia	Metre	24.00	65874
	1600 mm dia	Metre	26.00	70778
	1700 mm dia	Metre	10.00	33706
	1700 mm dia	Metre	12.00	38880
	1700 mm dia	Metre	14.00	44008
	1700 mm dia	Metre	16.00	49087
	1700 mm dia	Metre	18.00	54320
	1700 mm dia	Metre	20.00	59448
	1700 mm dia	Metre	22.00	64576
	1700 mm dia	Metre	24.00	69817
	1700 mm dia	Metre	26.00	75004
	1700 mm dia	Metre	28.00	80189
	1800 mm dia	Metre	10.00	35723
	1800 mm dia	Metre	12.00	41151
	1800 mm dia	Metre	14.00	46558
	1800 mm dia	Metre	16.00	51978
	1800 mm dia	Metre	18.00	57398
	1800 mm dia	Metre	20.00	62872
	1800 mm dia	Metre	22.00	68350
	1800 mm dia	Metre	24.00	73770
	1800 mm dia	Metre	26.00	79293
	1800 mm dia	Metre	28.00	84779
	1900 mm dia	Metre	10.00	37633
	1900 mm dia	Metre	12.00	43332
	1900 mm dia	Metre	14.00	49044



## Public Health Engineering Items

	1900 mm dia	Metre	16.00	54743
	1900 mm dia	Metre	18.00	60462
	1900 mm dia	Metre	20.00	66232
	1900 mm dia	Metre	22.00	71989
	1900 mm dia	Metre	24.00	77707
	1900 mm dia	Metre	26.00	83523
	1900 mm dia	Metre	28.00	89293
	2000 mm dia	Metre	10.00	39525
	2000 mm dia	Metre	12.00	45528
	2000 mm dia	Metre	14.00	51527
	2000 mm dia	Metre	16.00	57530
	2000 mm dia	Metre	18.00	63579
	2000 mm dia	Metre	20.00	69582
	2000 mm dia	Metre	22.00	75637
	2000 mm dia	Metre	24.00	81699
	2000 mm dia	Metre	26.00	87748
	2000 mm dia	Metre	28.00	93810
	2000 mm dia	Metre	30.00	99925
	2100 mm dia	Metre	12.00	47786
	2100 mm dia	Metre	14.00	54080
	2100 mm dia	Metre	16.00	60363
	2100 mm dia	Metre	18.00	66666
	2100 mm dia	Metre	20.00	73005
	2100 mm dia	Metre	22.00	79346
	2100 mm dia	Metre	24.00	85698
	2100 mm dia	Metre	26.00	92047
	2100 mm dia	Metre	28.00	98400
	2100 mm dia	Metre	30.00	104798
	2100 mm dia	Metre	32.00	111197
	2100 mm dia	Metre	34.00	117616
	2200 mm dia	Metre	12.00	49984
	2200 mm dia	Metre	14.00	56557
	2200 mm dia	Metre	16.00	63151
	2200 mm dia	Metre	18.00	69782
	2200 mm dia	Metre	20.00	76414
	2200 mm dia	Metre	22.00	83000
	2200 mm dia	Metre	24.00	89640
	2200 mm dia	Metre	26.00	96331
	2200 mm dia	Metre	28.00	102917
	2200 mm dia	Metre	30.00	109607
	2200 mm dia	Metre	32.00	116305
	2200 mm dia	Metre	34.00	123054
	2200 mm dia	Metre	36.00	129698
	2300 mm dia	Metre	12.00	52198
	2300 mm dia	Metre	14.00	59064
	2300 mm dia	Metre	16.00	65982
	2300 mm dia	Metre	18.00	72905
	2300 mm dia	Metre	20.00	79791
	2300 mm dia	Metre	22.00	86714

## Public Health Engineering Items

2300 mm dia	Metre	24.00	93638
2300 mm dia	Metre	26.00	100620
2300 mm dia	Metre	28.00	107505
2300 mm dia	Metre	30.00	114487
2300 mm dia	Metre	32.00	121469
2300 mm dia	Metre	34.00	128509
2300 mm dia	Metre	36.00	135500
2400 mm dia	Metre	12.00	54380
2400 mm dia	Metre	14.00	61535
2400 mm dia	Metre	16.00	68705
2400 mm dia	Metre	18.00	75982
2400 mm dia	Metre	20.00	83139
2400 mm dia	Metre	22.00	90354
2400 mm dia	Metre	24.00	97636
2400 mm dia	Metre	26.00	104851
2400 mm dia	Metre	28.00	112079
2400 mm dia	Metre	30.00	119294
2400 mm dia	Metre	32.00	126575
2400 mm dia	Metre	34.00	133907
2400 mm dia	Metre	36.00	141179
2500 mm dia	Metre	14.00	64101
2500 mm dia	Metre	16.00	71549
2500 mm dia	Metre	18.00	79056
2500 mm dia	Metre	20.00	86563
2500 mm dia	Metre	22.00	94130
2500 mm dia	Metre	24.00	101637
2500 mm dia	Metre	26.00	109144
2500 mm dia	Metre	28.00	116709
2500 mm dia	Metre	30.00	124177
2500 mm dia	Metre	32.00	131742
2500 mm dia	Metre	34.00	139364
2500 mm dia	Metre	36.00	146929
2600 mm dia	Metre	14.00	66631
2600 mm dia	Metre	16.00	74371
2600 mm dia	Metre	18.00	82119
2600 mm dia	Metre	20.00	89917
2600 mm dia	Metre	22.00	97716
2600 mm dia	Metre	24.00	105568
2600 mm dia	Metre	26.00	113374
2600 mm dia	Metre	28.00	121231
2600 mm dia	Metre	30.00	129029
2600 mm dia	Metre	32.00	136884
2600 mm dia	Metre	34.00	144749
2600 mm dia	Metre	36.00	152663
2600 mm dia	Metre	38.00	160520
2600 mm dia	Metre	40.00	168435
2600 mm dia	Metre	42.00	176358
2700 mm dia	Metre	18.00	85259
2700 mm dia	Metre	20.00	93290

## Public Health Engineering Items

2700 mm dia	Metre	22.00	101380
2700 mm dia	Metre	24.00	109478
2700 mm dia	Metre	26.00	117613
2700 mm dia	Metre	28.00	125816
2700 mm dia	Metre	30.00	133962
2700 mm dia	Metre	32.00	142060
2700 mm dia	Metre	34.00	150209
2700 mm dia	Metre	36.00	158416
2700 mm dia	Metre	38.00	166572
2700 mm dia	Metre	40.00	174778
2700 mm dia	Metre	42.00	182926
2800 mm dia	Metre	18.00	88314
2800 mm dia	Metre	20.00	96703
2800 mm dia	Metre	22.00	105084
2800 mm dia	Metre	24.00	113467
2800 mm dia	Metre	26.00	121848
2800 mm dia	Metre	28.00	130282
2800 mm dia	Metre	30.00	138776
2800 mm dia	Metre	32.00	147157
2800 mm dia	Metre	34.00	155597
2800 mm dia	Metre	36.00	164044
2800 mm dia	Metre	38.00	172542
2800 mm dia	Metre	40.00	180982
2800 mm dia	Metre	42.00	189526
2900 mm dia	Metre	18.00	91506
2900 mm dia	Metre	20.00	100121
2900 mm dia	Metre	22.00	108794
2900 mm dia	Metre	24.00	117475
2900 mm dia	Metre	26.00	126146
2900 mm dia	Metre	28.00	134865
2900 mm dia	Metre	30.00	143596
2900 mm dia	Metre	32.00	152277
2900 mm dia	Metre	34.00	161061
2900 mm dia	Metre	36.00	169839
2900 mm dia	Metre	38.00	178628
2900 mm dia	Metre	40.00	187367
2900 mm dia	Metre	42.00	196157
3000 mm dia	Metre	18.00	94517
3000 mm dia	Metre	20.00	103528
3000 mm dia	Metre	22.00	112442
3000 mm dia	Metre	24.00	121405
3000 mm dia	Metre	26.00	130370
3000 mm dia	Metre	28.00	139380
3000 mm dia	Metre	30.00	148411
3000 mm dia	Metre	32.00	157375
3000 mm dia	Metre	34.00	166444
3000 mm dia	Metre	36.00	175521
3000 mm dia	Metre	38.00	184551
3000 mm dia	Metre	40.00	193632
3000 mm dia	Metre	42.00	202701

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	822
	500 mm dia	Metre	10.00	842
	600 mm dia	Metre	8.00	1015
	600 mm dia	Metre	10.00	1036
	700 mm dia	Metre	8.00	1282
	700 mm dia	Metre	10.00	1308
	800 mm dia	Metre	8.00	1476
	800 mm dia	Metre	10.00	1505
	800 mm dia	Metre	12.00	1549
	900 mm dia		8.00	1792
	900 mm dia	Metre	10.00	1824
	900 mm dia	Metre	12.00	1877
	1000 mm dia	Metre	8.00	1983
	1000 mm dia	Metre	10.00	2017
	1000 mm dia	Metre	12.00	2075
	1000 mm dia	Metre	14.00	2102
	1100 mm dia	Metre	10.00	2081
	1100 mm dia	Metre	12.00	2143
	1100 mm dia	Metre	14.00	2172
	1100 mm dia	Metre	16.00	2232
	1200 mm dia	Metre	10.00	2146
	1200 mm dia	Metre	12.00	2213
	1200 mm dia	Metre	14.00	2245
	1200 mm dia	Metre	16.00	2309
	1200 mm dia	Metre	18.00	2374
	1300 mm dia	Metre	10.00	2212
	1300 mm dia	Metre	12.00	2286
	1300 mm dia	Metre	14.00	2319
	1300 mm dia	Metre	16.00	2390
	1300 mm dia	Metre	18.00	2459
	1300 mm dia	Metre	20.00	2553
	1400 mm dia	Metre	10.00	2432
	1400 mm dia	Metre	12.00	2510
	1400 mm dia	Metre	14.00	2546
	1400 mm dia	Metre	16.00	2620
	1400 mm dia	Metre	18.00	2696
	1400 mm dia	Metre	20.00	2726
	1400 mm dia	Metre	22.00	2885

## Public Health Engineering Items

	1500 mm dia	Metre	10.00	2490
	1500 mm dia	Metre	12.00	2573
	1500 mm dia	Metre	14.00	2612
	1500 mm dia	Metre	16.00	2690
	1500 mm dia	Metre	18.00	2771
	1500 mm dia	Metre	20.00	2879
	1500 mm dia	Metre	22.00	2909
	1500 mm dia	Metre	24.00	3019
	1600 mm dia	Metre	10.00	2548
	1600 mm dia	Metre	12.00	2637
	1600 mm dia	Metre	14.00	2680
	1600 mm dia	Metre	16.00	2765
	1600 mm dia	Metre	18.00	2851
	1600 mm dia	Metre	20.00	2961
	1600 mm dia	Metre	22.00	3043
	1600 mm dia	Metre	24.00	3179
	1600 mm dia	Metre	26.00	3329
	1700 mm dia	Metre	10.00	2611
	1700 mm dia	Metre	12.00	2705
	1700 mm dia	Metre	14.00	2749
	1700 mm dia	Metre	16.00	2838
	1700 mm dia	Metre	18.00	2930
	1700 mm dia	Metre	20.00	3049
	1700 mm dia	Metre	22.00	3170
	1700 mm dia	Metre	24.00	3303
	1700 mm dia	Metre	26.00	3449
	1700 mm dia	Metre	28.00	3604
	1800 mm dia	Metre	10.00	2890
	1800 mm dia	Metre	12.00	2988
	1800 mm dia	Metre	14.00	3036
	1800 mm dia	Metre	16.00	3128
	1800 mm dia	Metre	18.00	3228
	1800 mm dia	Metre	20.00	3351
	1800 mm dia	Metre	22.00	3480
	1800 mm dia	Metre	24.00	3621
	1800 mm dia	Metre	26.00	3775
	1800 mm dia	Metre	28.00	3936
	1900 mm dia	Metre	10.00	3309
	1900 mm dia	Metre	12.00	3415
	1900 mm dia	Metre	14.00	3463
	1900 mm dia	Metre	16.00	3563
	1900 mm dia	Metre	18.00	3667
	1900 mm dia	Metre	20.00	3796
	1900 mm dia	Metre	22.00	3931
	1900 mm dia	Metre	24.00	4079
	1900 mm dia	Metre	26.00	4240
	1900 mm dia	Metre	28.00	4415
	2000 mm dia	Metre	10.00	4182

## Public Health Engineering Items

2000 mm dia	Metre	12.00	4292
2000 mm dia	Metre	14.00	4343
2000 mm dia	Metre	16.00	4447
2000 mm dia	Metre	18.00	4555
2000 mm dia	Metre	20.00	4692
2000 mm dia	Metre	22.00	4737
2000 mm dia	Metre	24.00	4891
2000 mm dia	Metre	26.00	5062
2000 mm dia	Metre	28.00	5244
2000 mm dia	Metre	30.00	5537
2100 mm dia	Metre	12.00	4821
2100 mm dia	Metre	14.00	4876
2100 mm dia	Metre	16.00	4983
2100 mm dia	Metre	18.00	5100
2100 mm dia	Metre	20.00	5243
2100 mm dia	Metre	22.00	5393
2100 mm dia	Metre	24.00	5553
2100 mm dia	Metre	26.00	5731
2100 mm dia	Metre	28.00	5754
2100 mm dia	Metre	30.00	6057
2100 mm dia	Metre	32.00	6101
2100 mm dia	Metre	34.00	6458
2200 mm dia	Metre	12.00	5374
2200 mm dia	Metre	14.00	5432
2200 mm dia	Metre	16.00	5544
2200 mm dia	Metre	18.00	5647
2200 mm dia	Metre	20.00	5665
2200 mm dia	Metre	22.00	5804
2200 mm dia	Metre	24.00	5973
2200 mm dia	Metre	26.00	6159
2200 mm dia	Metre	28.00	6359
2200 mm dia	Metre	30.00	6670
2200 mm dia	Metre	32.00	6854
2200 mm dia	Metre	34.00	7031
2200 mm dia	Metre	36.00	7472
2300 mm dia	Metre	12.00	6102
2300 mm dia	Metre	14.00	6160
2300 mm dia	Metre	16.00	6279
2300 mm dia	Metre	18.00	6406
2300 mm dia	Metre	20.00	6560
2300 mm dia	Metre	22.00	6745
2300 mm dia	Metre	24.00	6902
2300 mm dia	Metre	26.00	7095
2300 mm dia	Metre	28.00	7134
2300 mm dia	Metre	30.00	7454
2300 mm dia	Metre	32.00	7651
2300 mm dia	Metre	34.00	7782
2300 mm dia	Metre	36.00	8289
2400 mm dia	Metre	12.00	7347

## Public Health Engineering Items

2400 mm dia	Metre	14.00	7408
2400 mm dia	Metre	16.00	7531
2400 mm dia	Metre	18.00	7662
2400 mm dia	Metre	20.00	7826
2400 mm dia	Metre	22.00	7995
2400 mm dia	Metre	24.00	8178
2400 mm dia	Metre	26.00	8380
2400 mm dia	Metre	28.00	8597
2400 mm dia	Metre	30.00	8831
2400 mm dia	Metre	32.00	9034
2400 mm dia	Metre	34.00	9290
2400 mm dia	Metre	36.00	9624
2500 mm dia	Metre	14.00	9048
2500 mm dia	Metre	16.00	9175
2500 mm dia	Metre	18.00	9341
2500 mm dia	Metre	20.00	9483
2500 mm dia	Metre	22.00	9658
2500 mm dia	Metre	24.00	9848
2500 mm dia	Metre	26.00	10060
2500 mm dia	Metre	28.00	10285
2500 mm dia	Metre	30.00	10525
2500 mm dia	Metre	32.00	10786
2500 mm dia	Metre	34.00	11062
2500 mm dia	Metre	36.00	11352
2600 mm dia	Metre	14.00	9245
2600 mm dia	Metre	16.00	9379
2600 mm dia	Metre	18.00	9522
2600 mm dia	Metre	20.00	9694
2600 mm dia	Metre	22.00	9878
2600 mm dia	Metre	24.00	10077
2600 mm dia	Metre	26.00	10295
2600 mm dia	Metre	28.00	10528
2600 mm dia	Metre	30.00	10780
2600 mm dia	Metre	32.00	11049
2600 mm dia	Metre	34.00	11335
2600 mm dia	Metre	36.00	11635
2600 mm dia	Metre	38.00	11960
2600 mm dia	Metre	40.00	12299
2600 mm dia	Metre	42.00	12651
2700 mm dia	Metre	18.00	9604
2700 mm dia	Metre	20.00	9786
2700 mm dia	Metre	22.00	9975
2700 mm dia	Metre	24.00	10182
2700 mm dia	Metre	26.00	10409
2700 mm dia	Metre	28.00	10650
2700 mm dia	Metre	30.00	10911
2700 mm dia	Metre	32.00	11188
2700 mm dia	Metre	34.00	11487
2700 mm dia	Metre	36.00	11800
2700 mm dia	Metre	38.00	12133

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	2700 mm dia	Metre	40.00	12481
	2700 mm dia	Metre	42.00	12910
				0
	2800 mm dia	Metre	18.00	9808
	2800 mm dia	Metre	20.00	9992
	2800 mm dia	Metre	22.00	10189
	2800 mm dia	Metre	24.00	10406
	2800 mm dia	Metre	26.00	10638
	2800 mm dia	Metre	28.00	10887
	2800 mm dia	Metre	30.00	11156
	2800 mm dia	Metre	32.00	11447
	2800 mm dia	Metre	34.00	11754
	2800 mm dia	Metre	36.00	11963
	2800 mm dia	Metre	38.00	12305
	2800 mm dia	Metre	40.00	12671
	2800 mm dia	Metre	42.00	13053
				0
	2900 mm dia	Metre	18.00	11160
	2900 mm dia	Metre	20.00	11355
	2900 mm dia	Metre	22.00	11556
	2900 mm dia	Metre	24.00	11779
	2900 mm dia	Metre	26.00	12020
	2900 mm dia	Metre	28.00	12281
	2900 mm dia	Metre	30.00	12560
	2900 mm dia	Metre	32.00	12856
	2900 mm dia	Metre	34.00	13174
	2900 mm dia	Metre	36.00	13512
	2900 mm dia	Metre	38.00	13866
	2900 mm dia	Metre	40.00	14241
	2900 mm dia	Metre	42.00	14635
				0
	3000 mm dia	Metre	18.00	11251
	3000 mm dia	Metre	20.00	11449
	3000 mm dia	Metre	22.00	11659
	3000 mm dia	Metre	24.00	11888
	3000 mm dia	Metre	26.00	12140
	3000 mm dia	Metre	28.00	12407
	3000 mm dia	Metre	30.00	12695
	3000 mm dia	Metre	32.00	13004
	3000 mm dia	Metre	34.00	13332
	3000 mm dia	Metre	36.00	13679
	3000 mm dia	Metre	38.00	14047
	3000 mm dia	Metre	40.00	14435
	3000 mm dia	Metre	42.00	14842

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

MS Plates = Rs 46000/- 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<sub>2</sub>-M<sub>1</sub>)/1000 x W<sub>m</sub>, M<sub>1</sub>= Rs 46,000/- , 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 o R FOR H.D.P.E PIPES FOR THE YEAR 2017-18. (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
<b>I</b>	<b>Manufacture, Supply, &amp; Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to any where in T.G, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm diain coil &amp; above 90 mm diastraight length in 6 m.)</b>					
	<b>Rate per Meter</b>					
	OD 20 mm					32
	OD 25 mm					42
	OD 32 mm			41	54	68
	OD 40 mm		53	64	81	103
	OD 50 mm	65	81	98	126	160
	OD 63 mm	98	125	150	198	250
	OD 75 mm	138	176	213	283	355
	OD 90 mm	197	252	302	401	515
	OD 110 mm	296	376	447	604	748
	OD 125 mm	378	484	582	773	962
	OD 140 mm	474	606	728	974	1215
	OD 160 mm	621	789	948	1269	1575
	OD 180 mm	780	998	1201	1601	1987
	OD 200 mm	964	1233	1480	1984	2454
	OD 225 mm	1245	1592	1916	2502	3099
	OD 250 mm	1532	1968	2365	3089	3828
	OD 280 mm	1921	2463	2959	3882	4810
	OD 315 mm	2435	3119	3749	4895	6086
	OD 355 mm	3055	3908	4703	6227	7745
	OD 400 mm	4024	5140	6170	8062	9992
	OD 450 mm	4999	6411	7710	10192	12565
	OD 500 mm	6182	7905	9511	12589	15056
	OD 560 mm	7182	9189	10987	14100	
	OD 630 mm	9054	11627	13919	16698	
	OD 710 mm	11517	14734	17679		
	OD 800 mm	14615	18707	22513		
	OD 900 mm	18516	23681			
	OD 1000 mm	22832				

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.98,880/- 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.

**16. S o R FOR H.D.P.E FITTINGS FOR THE YEAR 2017-18.**

	<b>Manufacture, Supply, &amp; Delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to anywhere in T.G. Excluding excise duty, sale tax and specials etc., complete</b>	
<b>I (a)</b>	<b>PIPE ENDS LONG NECK</b>	<b>Rate per Each</b>
	OD 50 mm	74
	OD 63 mm	94
	OD 75 mm	113
	OD 90 mm	146
	OD 110 mm	203
	OD 125 mm	365
	OD 140 mm	368
	OD 160 mm	514
	OD 180 mm	729
	OD 200 mm	937
	OD 225 mm	1074
	OD 250 mm	1259
	OD 280 mm	1407
	OD 315 mm	1623
	OD 355 mm	3391
	OD 400 mm	4519
	OD 450 mm	7520
	OD 500 mm	8369
<b>(b)</b>	<b>MS FLANGES</b>	<b>Rate per Each</b>
	OD 50 mm	114
	OD 63 mm	144
	OD 75 mm	183
	OD 90 mm	197
	OD 110 mm	207
	OD 125 mm	284
	OD 140 mm	308
	OD 160 mm	404
	OD 180 mm	570
	OD 200 mm	738
	OD 225 mm	922
	OD 250 mm	1088
	OD 280 mm	1234
	OD 315 mm	1452
	OD 355 mm	2460
	OD 400 mm	3050
	OD 450 mm	3983

	OD 500 mm	4561
<b>(c)</b>	<b>END CAPS</b>	<b>Rate per Each</b>
	OD 50 mm	50
	OD 63 mm	62
	OD 75 mm	76
	OD 90 mm	101
	OD 110 mm	116
	OD 125 mm	159
	OD 140 mm	186
	OD 160 mm	285
	OD 180 mm	463
	OD 200 mm	505
	OD 225 mm	526
	OD 250 mm	749
	OD 280 mm	767
	OD 315 mm	1047
	OD 355 mm	1615
	OD 400 mm	2824
	OD 450 mm	4542
	OD 500 mm	8369
<b>(d)</b>	<b>REDUCERS</b>	<b>Rate per Each</b>
	OD 50 mm x 63 mm	71
	OD 63 mm x 75 mm	101
	OD 75 mm x 90 mm	165
	OD 90 mm x 110 mm	228
	OD 110 mm x 125 mm	349
	OD 125 mm x 140 mm	483
	OD 140 mm x 160 mm	672
	OD 160 mm x 180 mm	932
	OD 180 mm x 200 mm	1203
	OD 200 mm x 225 mm	1478
	OD 225 mm x 250 mm	2015
	OD 250 mm x 280 mm	2863
	OD 280 mm x 315 mm	4046
	OD 315 mm x 355 mm	4641
	OD 355 mm x 400 mm	6550
	OD 400 mm x 450 mm	6794
	OD 450 mm x 500 mm	8711

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(e)	<b>TEES</b>	<b>Rate per Each</b>
	OD 50 mm	96
	OD 63 mm	155
	OD 75 mm	186
	OD 90 mm	327
	OD 110 mm	387
	OD 125 mm	583
	OD 140 mm	803
	OD 160 mm	1384
	OD 180 mm	1877
	OD 200 mm	2585
	OD 225 mm	3670
	OD 250 mm	5023
	OD 280 mm	7034
	OD 315 mm	10026
	OD 355 mm	14296
	OD 400 mm	20941
	OD 450 mm	29743
	OD 500 mm	40851
(f)	<b>BENDS</b>	<b>Rate per Each</b>
	OD 50 mm	62
	OD 63 mm	135
	OD 75 mm	176
	OD 90 mm	301
	OD 110 mm	397
	OD 125 mm	587
	OD 140 mm	772
	OD 160 mm	1151
	OD 180 mm	1652
	OD 200 mm	2238
	OD 225 mm	3175
	OD 250 mm	4352
	OD 280 mm	6276
	OD 315 mm	8679
	OD 355 mm	12031
	OD 400 mm	18147
	OD 450 mm	26679
	OD 500 mm	36169

<b>II</b>	<b>Supply and Fixing Electro Fusion Tapping saddle complying with BS EN 12201-3-2011, PN 12.5 rating &amp; WRAS approved raw material as per BS 6920, manufactured from virgin resin of PE-80/PE-100 having blue/black colour using food grade compounded raw material 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>	<b>Rate for SoR 2017-18</b>
	<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"	726
	63 x3/4"	726
	63 x1"	726
	75 x1/2"	726
	75 x3/4"	726
	75 x1	726
	90 x1/2"	726
	90 x3/4"	726
	90 x1"	726
	90 x 1 1/4"	726
	90 x 1 1/2"	726
	90 x2"	726
	110x1/2"	726
	110 x3/4"	726
	110 x1"	726
	110 x 1 1/4"	726
	110x1 1/2"	726
	110x2"	726
	160 x1/2"	726
	160 x3/4"	726
	160 x1"	726
	160 x 1 1/4"	726
	160 x 1 1/2"	726
	160 x 2"	726
	200 x 1/2"	863
	200 x 3/4"	863

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	200 x 1"	863
	200 x 1 1/4"	863
	200 x 1 1/2"	863
	200x 2"	1035
	250 x 1/2"	1035
	250 x3/4"	1035
	250 x1"	1035
	250 x 1 1/4"	1035
	250 x1 1/2"	1035
	250 x 2"	1035
	315 x 1/2"	1035
	315 x3/4"	1035
	315x1"	1035
	315x1 1/4"	1035
	315x1 1/2"	1035
	315x2"	1035

S.No.	Description	
<b>III</b>	<b>HOUSE SERVICE CONNECTIONS (COMPRESSION FITTINGS)</b>	
<b>A</b>	Supply and Fixing of Compression Fittings shall comply with ISO 17885 – 2015, PN-16 rating and manufactured from virgin resin of PE-80 having blue colour. Raw material must be WRAS Approved as per BS 6920 for effect on water quality intended for human consumption. Compression fittings should have moulded-in SS 304 threaded insert outlet with thread dimension conforming to IS 554/ISO 7. The cost shall include testing of all materials, labour all taxes (central & state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.	<b>Rate for SoR 2017-18</b>
1	Compression Male/ Female threaded adapter with SS Insert D20mmx1/2"	147
2	Compression Male/Female threaded adapter with SS Insert D25mmx3/4"	180
3	Compression Male/Female threaded adapterwith SS Insert D32mmx1"	272
4	Compression Male/Female threaded elbow with SS Insert D20mmx1/2"	156
5	Compression Male/Female threaded elbow with SS Insert D25mmx3/4"	201
6	Compression Male/Female threaded elbow with SS Insert D32mmx1"	299
7	Double compression elbow 20mm	64
8	Double compression elbow 25mm	79
9	Double compression elbow 32mm	112
<b>B</b>	<b>HOUSE SERVICE CONNECTIONS (Composite Strap Saddle for DI/CI Pipes)</b>	
	Supply and Fixing of Composite Strap Saddle shall be of wrap around design, PN-16 rating. Body shall be manufactured using virgin compounded PE80/PE100 polymer with Stainless steel 304 grade stirrup plate mounted with PE straps(Engineering plastic) with Nut bolt joint. Sealing between the saddle and mains shall be obtained by using an elastomer seal(Underneath projection for self interlocking).The cost shall include testing of all materials, labour all taxes (central & state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.	
	(Main pipe outer diameter in mm & Tapping size in Inches)	
1	100X1/2"	609
2	100X3/4"	630
3	100X1"	764
4	150X1/2"	870
5	150X3/4"	905
6	150X1"	1033
7	200X1/2"	919
8	200X3/4"	1012
9	<b>200x1"</b>	<b>1053</b>
<b>C</b>	<b>HOUSE SERVICE CONNECTIONS (Regulating Brass ferrule)</b>	
	The cost shall include testing of all materials,labour all taxes (Central & State),Inspectioncharges,Transportation upro site,transit insurance, loading, unloading,stacking,providing and fixing etc. complete as specified and directed by departmental engineers.	
1	1/2"	162
2	3/4"	267
3	1"	465



**17. SoR FOR PVC PIPES FOR THE YEAR 2017-18**

Sl. No.	Description	4.0	6	10
		Kgs/cm <sup>2</sup>	Kgs/cm <sup>2</sup>	Kgs/cm <sup>2</sup>
1	2	4	5	6
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			16
	25			24
	32			36
	40		34	55
	50		51	85
	63	56	81	122
	75	82	112	177
	90	113	161	251
	110	163	233	374
	125	213	298	488
	140	266	383	606
	160	350	496	794
	180	446	639	1017
	200	542	778	1239
	225	724	1045	1662
	250	841	1279	2019
	280	1099	1617	2554
	315	1391	2033	3225
	355	1824	2647	
	400	2300	3368	

**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.78360/- 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.

**18. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2017-18**

Code No	Description	
1	2	4
	<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.G, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Rates 2017-18</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	296
	OD 200 mm	452
	OD 250mm	700
	OD 315 mm	1104
	<b>Pipe Series (S20)</b>	
	OD 125 mm	230
	OD 160 mm	368
	OD 200 mm	558
	OD 250mm	869
	OD 315 mm	1365
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	202
	OD 125 mm	273
	OD 160 mm	426
	OD 200 mm	663
	OD 250mm	1027
	OD 315 mm	1623

**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.78360/- 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.

**19. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2017-18**

Code No	Description	
1	2	4
	<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 <u>Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes)as per specification inclusive of transportation to the Sub-Divisional stores any where in T.G, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Rates 2017-18</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	317
	OD 200 mm	480
	OD 250mm	746
	OD 315 mm	1174
	<b>Pipe Series (S20)</b>	
	OD 125 mm	247
	OD 160 mm	389
	OD 200 mm	592
	OD 250mm	923
	OD 315 mm	1449
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	215
	OD 125 mm	290
	OD 160 mm	455
	OD 200 mm	701
	OD 250mm	1090
	OD 315 mm	1720

**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 Rs78360/- 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.

**20. SoR FOR CENTRIFUGALLY CAST (SPUN) IRON PRESSURE PIPES**

Sl. No.	Description	Unit	S.S. Rates for 2017-18		
			4	5	6
<b>I</b>	<b>Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/2001 (third revision) with amdt. No: 1 &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	765	829	892
	100	Rmt	931	1023	1093
	125	Rmt	1174	1282	1381
	150	Rmt	1423	1559	1680
	200	Rmt	2077	2255	2440
	250	Rmt	2800	3048	3298
	300	Rmt	3610	3949	4277
	350	Rmt	4616	5008	5433
	400	Rmt	5621	6142	6629
	450	Rmt	6801	7472	8059
	500	Rmt	8042	8760	9477
	600	Rmt	10635	11610	12575
	700	Rmt	13995	15290	16520
	750	Rmt	15675	17139	18592
	800	Rmt	17546	19119	20682
	900	Rmt	21382	24612	25279
	1000	Rmt	25689	28061	30329
<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	0.26	0.26	0.26
	100	Per KM/RMT	0.26	0.26	0.26
	125	Per KM/RMT	0.40	0.40	0.40
	150	Per KM/RMT	0.40	0.40	0.40
	200	Per KM/RMT	0.67	0.67	0.67
	250	Per KM/RMT	0.81	0.81	0.81
	300	Per KM/RMT	1.07	1.20	1.20
	350	Per KM/RMT	1.47	1.47	1.60
	400	Per KM/RMT	1.73	1.73	1.86

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450	Per KM/RMT		2.01	2.14	2.27
500	Per KM/RMT		2.40	2.54	2.67
600	Per KM/RMT		2.40	2.54	2.67
700	Per KM/RMT		2.40	2.54	2.67
750	Per KM/RMT		4.00	4.26	4.54
800	Per KM/RMT		6.80	6.80	6.80
900	Per KM/RMT		6.80	6.80	6.80
1000	Per KM/RMT		6.80	6.80	6.80

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

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

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

Where M= Weight of pipe in kg per metre.

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

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

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

R1 = Price of Pig Iron (Rs per MT excluding CED&ST) at the time of preparation of SSR =Rs. 26,500/-

**21.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2017-18**

Sl. No.	Description	Unit	S.S. Rate for 2017-18	
			4	5
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</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	788	939
	150	Rmt	1093	1387
	200	Rmt	1523	1853
	250	Rmt	2042	2432
	300	Rmt	2622	3080
	350	Rmt	3300	3839
	400	Rmt	4005	4628
	450	Rmt	4817	5537
	500	Rmt	5740	6443
	600	Rmt	7638	8497
	700	Rmt	9882	10983
	750	Rmt	11071	12326
	800	Rmt	12237	13601
	900	Rmt	14929	16588
	1000	Rmt	17696	19663
	1100	Rmt		21021
	1200	Rmt		24576
<b>2</b>	<b>Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage <u>with plain ends</u> conforming to IS:8329/2000in 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	672	861
	150	Rmt	969	1265
	200	Rmt	1375	1719
	250	Rmt	1790	2282
	300	Rmt	2356	2887
	350	Rmt	2958	3587
	400	Rmt	3579	4323
	450	Rmt	4285	5108
	500	Rmt	5102	6099

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	600	Rmt	6755	7870
	700	Rmt	8944	9985
	750	Rmt	10003	11187
	800	Rmt	11063	12351
	900	Rmt	13377	14936
	1000	Rmt	15903	17756
	1100	Rmt		18886
	1200	Rmt		21982
3	<b>Centrifugally cast (Spun) Ductile Iron pressure pipes with <u>flanged (welded) ends</u> 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	3303	4303
	150	Each	4669	6125
	200	Each	6178	8164
	250	Each	8069	10718
	300	Each	10089	13437
	350	Each	15797	19953
	400	Each	19563	24584
	450	Each	23626	29549
	500	Each	28619	35574
	600	Each	40509	49655
	700	Each	48307	59913
	800	Each	59556	73913
	900	Each	70983	88341
	1000	Each	91163	111818
	1100	Each	106094	128110
			<b>3.0 Mt. Length</b>	<b>4.0 Mt. Length</b>
	100	Each	5302	5814
	150	Each	7582	8434
	200	Each	10153	11441
	250	Each	13368	15116
	300	Each	16779	19081
	350	Each	24111	26463
	400	Each	29605	32063
	450	Each	35470	38290
	500	Each	42528	45764
	600	Each	58801	62657
	700	Each	71520	76734
	800	Each	88267	94788
	900	Each	105702	113773
	1000	Each	132366	141003

	1100	Each	150573	178183
			<b>5.0 Mt. Length</b>	
	100	Each	6791	
	150	Each	9879	
	200	Each	13427	
	250	Each	17763	
	300	Each	22433	
	350	Each	30618	
	400	Each	37077	
	450	Each	44209	
	500	Each	52706	
	600	Each	71782	
	700	Each	88319	
	800	Each	109115	
	900	Each	134949	
	1000	Each	161600	
	1100	Each	191310	
<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>WELDED DOUBLE FLANGED PIPES</b>
	<b>SIZE IN MM</b>	<b>UNIT</b>	<b>K7</b>	<b>K9</b>
	100	Per KM/RMT	0.22	0.33
	150	Per KM/RMT	0.33	0.44
	200	Per KM/RMT	0.33	0.66
	250	Per KM/RMT	0.44	0.88
	300	Per KM/RMT	0.66	1.10
	350	Per KM/RMT	0.77	1.32
	400	Per KM/RMT	0.88	1.54
	450	Per KM/RMT	1.10	1.87
	500	Per KM/RMT	1.32	2.20
	600	Per KM/RMT	1.87	2.86
	700	Per KM/RMT	2.75	4.18
	750	Per KM/RMT	3.30	5.06
	800	Per KM/RMT	5.61	8.36
	900	Per KM/RMT	5.61	8.36
	1000	Per KM/RMT	5.61	8.36
	1100	Per KM/RMT	5.61	-
	1200	Per KM/RMT	6.00	
<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	41
	150 mm dia		RMT	50
	200 mm dia		RMT	64
	250 mm dia		RMT	74



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

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

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

$P_2 = P_1 + (R_2 - R_1) / 1000 * M * 0.96$ , Where

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

P<sub>2</sub> = Revised rate of pipe in Rs. per Rmt.

P<sub>1</sub> = Rate of pipe in Rs. per Rmt. as per above table.

R<sub>2</sub> = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of estimate.

R<sub>1</sub> = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of SoR =Rs.26,500/-

**22 S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2017-18**

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	95
	Above 500 x 500 mm dia	Kg	106
<b>II</b>	DI All Socket Tees		
	Upto 300 x 300 mm dia	Kg	95
	Above 300 x 300 mm dia	Kg	106
<b>III</b>	DI Double socket Tapers (Reducer)		
	Upto 500 x 450 mm dia	Kg	95
	Above 500 x 450 mm dia	Kg	106
<b>IV</b>	DI Flanged Socket		
	Upto 500 mm dia	Kg	95
	Above 500 mm dia	Kg	106
<b>V</b>	DI Flanged Spigot		
	Upto 500 mm dia	Kg	95
	Above 500 mm dia	Kg	106
<b>VI</b>	DI Double Socket Duck Foot Bend		
	Upto 300mm dia	Kg	95
	Above 300mm dia	Kg	106
<b>VII</b>	DI Double Flange Duck/Foot bend		
	Upto 300 mm dia	Kg	95
	Above 300 mm dia	Kg	106
<b>VIII</b>	DI All socket Cross.		
	Upto 300 x 300 mm dia	Kg	95
	Above 300 x 300 mm dia	Kg	106
<b>IX</b>	DI All Flange Tee		
	Upto 500 x 500 mm dia	Kg	95
	Above 500 x 500 mm dia	Kg	106
<b>X</b>	DI All Flange Cross		
	Upto 300 x 300 mm dia	Kg	95
	Above 300 x 300 mm dia	Kg	106
<b>XI</b>	DI Double Flange Reducer		
	Upto 500 x 450 mm dia	Kg	95

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	Above 500 x 450 mm dia	Kg	106
<b>XII</b>	Blank Flange		
	Upto 500 mm dia	Kg	95
	Above 500 mm dia	Kg	106
<b>XIII</b>	Mechanical Joints		
	Upto 300 mm dia	Kg	95
	Above 300 mm dia	Kg	106
<b>XIV</b>	DI Double Socket Bends		
	Upto 500mm dia	Kg	95
	Above 500 mm dia	Kg	106
<b>XV</b>	DI Double Flanged Bends		
	Upto 500mm dia	Kg	95
	Above 500 mm dia	Kg	106

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

**23. 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 2017-18</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>Manufacture as per BIS:12820/2004 with S.B.R. Quality Rubber confirming to BIS: 5382/85, supply and delivery of Rubber Gaskets suitable for C.I/ D.I S/S pipes anywhere in T.G. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading &amp; stacking but excluding central excise duty, sales tax, octroi and other Govt. Levies etc., complete.</b>		
	80mm dia	Each	57
	100mm dia	Each	88
	125mm dia	Each	105
	150mm dia	Each	129
	200mm dia	Each	157
	250mm dia	Each	175
	300mm dia	Each	266
	350mm dia	Each	337
	400mm dia	Each	367
	450mm dia	Each	395
	500mm dia	Each	548
	600mm dia	Each	650
	700mm dia	Each	863
	750mm dia	Each	959
	800mm dia	Each	1149
	900mm dia	Each	1387
	1000mm dia	Each	1517

**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 CI PIPES AND SPECIALS FOR THE YEAR 2017-18**

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, Transit risk and delivery any where in T.G. 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.G. 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	70.02

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

**Pig Iron:** Rs.26,500/- per M.T.(excluding CED, Tax & Fright)

**Coke :** Rs.45,000/- 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.

**25. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2017-18**  
**(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	66761	77929	82534	90790	
	200	69746	80207	86224	94844	
	250	78693	90496	97284	107013	
	300	88559	101843	109484	120430	
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	94324	108471	116607	128266	8173
	400	104261	119899	128891	141786	9854
	450	121263	139453	149912	164904	11776
	500	140150	161170	173259	190585	12740
	525/550	150537	171131	188479	207326	16464
	600	168552	193833	208371	229208	23486
	650	188674	207544	235905	254653	26559
	700	219922	242033	274962	296954	31726
	750	243595	267989	304524	328919	35619
	800	296742	341256	366847	403530	40138
	900	352697	405602	427824	479625	48552
	1000	427824	427824	427824	594508	61649

	1050	432102	432102	432102	625969	64116
	1100	545067	618062	673855	741242	71385
	1200	656037	721655	822120	885694	80758
	1400	984056	1082480	1233180	1328536	113566
	1500	1146593	1261241	1433209	1547739	115837
	1600	1169524	1286463	1461874	1578691	121137
<b>3</b>	<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>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	
	100	61050	70209	77228	84948	
	150	92776	106693	117361	129097	
	200	99025	113877	125267	137793	
<b>4</b>	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	5% on basic cost of valves				

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

**26. S o R FOR CAST STEEL VALVES FOR THE YEAR 2017-18.**

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 / 1998. (The valve shall be used for High pressure schemes & pumping stations) excluding transportation, Central Excise duty and sale tax etc., complete. ISI Marked	Class-150 Body 425PSI Seat 300 PSI PN-20	Class-300 Body 1100 PSI Seat 750 PSI PN-30	FOR Enclosed Spur Gear Arrangement.	
	Rate/Each			Class 150	Class 300
	DIA IN MM	Rs.	Rs.	Rs.	
	40	5443	10885		
	50	8968	16326		
	65	11223	20408		
	80	13461	24490		
	100	17952	32652		
	125	23023	41862		
	150	26936	48978		
	200	43504	88435	53246	97289
	250	61231	139191	70973	148047
	300	77349	175820	87089	184675
	350	103142	234428	116424	246503
	400	209520	476181	222803	488256
	450	234846	523275	248130	535352
	500	276289	627930	289572	640006
	600	315429	715841	328713	727917
	700	610138		623421	
	750	656187		674783	
	800	759795		778391	
	900	897941		916537	
	1000	1151206		1169802	
	1100	1243302		1261898	
	1200	1404471		1423067	



2	<b>Manufacture, Supply and delivery of Cast Carbon Steel Bolted Cover Non Return Valve as per IS : 5312 / Part1 /2004. Round body heavy duty material spec. As per IS:1030/1998 with SS Hinge &amp; Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete. Dia in mm.</b>				
	<b>Rate/Each Rs.</b>	<b>PN-20</b>	<b>PN-30</b>		
	40	5410	9838		
	50	8051	14651		
	65	10061	18315		
	80	12075	21978		
	100	16567	29305		
	125	20722	37677		
	150	22784	41443		
	200	34536	75351		
	250	48351	125586		
	300	69072	156983		
	350	92097	209311		
	400	188798	429086		
	450	211822	481413		
	500	248661	565138		
	600	287801	654093		
3	<b>Manufacture, Supply and delivery of Cast Carbon Steel Multi Door Type Non return Valve as per IS; 5312/ Part II / 1984 Heavy duty material spec. as per 1030/1998 with SS hinges &amp; Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.</b>	<b>PN-20</b>			
		Rate/Each			
	500	418619			
	600	523275			
	700	627930			
	750	774448			
	800	1151206			
	900	1381446			
	1000	1507032			
	1100	1779136			
	1200	1800067			

4	<b>Manufacture, Supply and delivery of Cast Carbon 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 Rate/Each</b>	<b>PN- 1.0/1.6</b>	<b>PN-2.5</b>		
	300	79899	99601		
	350	107481	135062		
	400	129153	167459		
	450	156514	198105		
	500	178405	227657		
	600	207957	267059		
	700	326164	404968		
	750	404968	503473		
	800	444370	552726		
	900	503473	631531		
	1000	798991	996002		
	1100	996002	1291518		
	1200	1193013	1291518		
	1300	1597980	1784047		
	1400	1685540	1882552		
	1500	1784047	1981058		
	1600	2079563	2375081		
	1800	2572092	2769103		
	2000	3557148	3852664		
5	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	5% on basic cost of valves			

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

**27. S o R FOR DI D/F VALVES FOR THE YEAR 2017-18.Rate/Each in Rs.**

Sl. No.	Description	TEST PRESSURE			
		3	4	5	6
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Manufacture, supply and delivery of Single Chamber DI <u>Air Valve</u> with Body and cover in Ductile Iron of grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions. All internal parts such as float, shell etc., all cover bolts, of stainless steel, and Gaskets and seals of EPDM food grade quality Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per requirement of the deptt.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	25 (Screwed End)	8559	8559		
	32 (Screwed End)	17023	17023		
	40 (Screwed End)	17870	17870		
	50	30745	30745	39560	
	80	41016	41016	41016	
	100	47888	47888	55070	
	150	58298	58298	66625	
	200	63850	63850	74260	
	300	103455	103455	113905	
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 GGG-40/ SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions, wedge fully rubber lined with EPDM food grade quality and seals of NBR and the valves should be of vacuum tight and 100% leak proof with face to face dimensions as per BS5163-89/IS14846-2000/DIN 3202 F 4. All the valves should be with Electrostatic powder coating both inside and outside pocket less body passage. Drilled as per requirement of the deptt.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	50	7360	7360	12439	
	80	9426	9426	15337	
	100	12434	12434	17389	
	150	19577	19577	29004	
	200	32532	32532	48920	
	250	45058	45058	72663	

	<b>300</b>	68098	68098	117862	
	<b>350</b>	206179	206179	344900	
	<b>400</b>	216249	216249	350810	
	<b>450 With By-pass &amp; Gear</b>	372041	372041	699327	
	<b>500 With By-pass &amp; Gear</b>	395083	395083	742639	
	<b>600 With By-pass &amp; Gear</b>	508754	508754	956304	
<b>3</b>	<b>Manufacture, Supply and delivery of DI D/F Butterfly Valves with GGG-40/SG-400/15 or GGG-50/SG-500/7 or equivalent grade as per I.S.3896-part 2-1985 and subsequent revisions, Double eccentrically Disc., with renewable soft seal on the disc and Body seat face of stainless steel / nickel weld overlay, with powder or liquid Epoxy coating with minimum thickness of 250 microns applied on both body and disc inside and outside. Face to face dimensions as per AWWA C 504 or BS 5155 or IS:13095. Drilled as per requirement of dept.</b>				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	<b>PN 40</b>
	<b>150</b>	78461	78461	80993	107529
	<b>200</b>	85456	88230	103668	130748
	<b>250</b>	99568	102462	120012	183215
	<b>300</b>	118806	122304	136415	192382
	<b>350</b>	135933	148297	172720	209389
	<b>400</b>	171210	193973	225841	320123
	<b>450</b>	187958	208609	265678	
	<b>500</b>	189744	223971	356159	395586
	<b>600</b>	248686	351120	413392	433457
	<b>700</b>	490950	518029	778576	
	<b>800</b>	532249	554677	1136362	
	<b>900</b>	696076	696076		
	<b>1000</b>	872565	872565	1647797	
	<b>1100</b>	1003450	1003450		
	<b>1200</b>	1169137	1169137	1840795	
	<b>1400</b>	2512703	2512703		
	<b>1600</b>	2996167	2996167		
	<b>1800</b>	3674971	3674971		
	<b>2000</b>	6277801	6277801		
	<b>2200</b>	9063238	9063238		

4	<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 GGG-40/SG 400/15 or GGG-50/SG-500/7 or equivalent grade as per IS 3896(part2)-1985 and subsequent revisions. All the inside and outside of the body is to be coated with double coating of epoxy liquid. Drilled as per requirement of dept.. Specification and Dimensions as per I.S 5312 or equivalent codes.</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>	31090	34544		
	<b>150</b>	52206	58007		
	<b>200</b>	79170	83880	123017	161019
	<b>250</b>	87128	92406	149407	188790
	<b>300</b>	109214	115710	181886	230443
	<b>350</b>	128539	136253	206897	251555
	<b>400</b>	156146	165484	209494	272424
	<b>500</b>	198533	210552	265521	349402
	<b>600</b>	297869	315775	391423	505935
	<b>700</b>	429941	468873	573115	726768
	<b>800</b>	537581	585885	722674	915539
5	<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>	5330	5330		
	<b>50</b>	5330	5330		
	<b>65</b>	5767	5767		
	<b>80</b>	6289	6892		
	<b>100</b>	8842	9166		
	<b>125</b>	11111	11111		
	<b>150</b>	15005	15330		
	<b>200</b>	20359	20359		
	<b>250</b>	27092	27092		
	<b>300</b>	38121	38121		
	<b>350</b>	46260	50183		

6	<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/NPT 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>	14073	-	-	
	<b>50 mm dia</b>	-	45353	45353	
	<b>80 mm dia</b>	-	71151	71151	
	<b>100 mm dia</b>	-	78454	78454	
	<b>150 mm dia</b>	-	160890	160890	
	<b>200 mm dia</b>	-	241636	241636	
7	<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. Material construction Body, Bonnet, Wedge and Distance Piece of ductile iron GGG-50/SG500/7 DIN1693 or equivalent. Body seat, Wedge seat and Stem nut of Aluminum Bronze BS EN 1982 CC331G/equivalent, Stem of Stainless steel BS EN 100881.4057 or equivalent. 'O' Seal Body/Cover is of EPDM food grade Quality. Fastners is of Steel Sheraplex coated to BS 3692 Gr 8.8 or equivalent. Body and Bonnet internally and externally blue two pack epoxy to WIS 4-52-01 Class B. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538, ISI Marked.</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>		
	<b>DN700</b>	1303581	1303581		
	<b>DN800</b>	1648187	1648187		
	<b>DN 900</b>	1863121	1863121		
	<b>DN 1000</b>	2087471	2087471		
	<b>DN 1100</b>	2844366	2844366		
	<b>DN 1200</b>	3233031	3233031		

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.

**28. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2017-18**

Sl.No.	Description	Unit	SoR for 2017-18.
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.G., F.O.R. destination including, loading, unloading &amp; stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable.</b> <b><u>I.S.I Mark</u></b>		Rs.
<b>a)</b>	M.D. -10 with 500mm diaclear opening	Each	1620
<b>b)</b>	H.D.-20 with 500mm diaclear opening	Each	2088
<b>C)</b>	H.D.-10with 560mmdia clear opening(New item)	Each	1638
<b>d)</b>	H.D.-20 with 560mm diaclear opening	Each	2240
<b>e)</b>	H.D.-35 with 560mm diaclear opening.	Each	2400
<b>f)</b>	24x24 MD 10	Each	1766
<b>g)</b>	24x18 MD 10	Each	1625
<b>h)</b>	24x24 HD 20	Each	1985
<b>i)</b>	24x18 HD 20	Each	2023
<b>j)</b>	Deviders 0.9 mtr.	Each	4155
<b>II</b>	<b>Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in T.G. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding taxes such as sales tax, C.E.D and others etc., as applicable.</b>	Each	174

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

**29. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2017-18**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>2017-18.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<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	4606
	80	Each	5042
	100	Each	6616
	125	Each	8507
	150	Each	9332
	200	Each	13234
	250	Each	15754
	300	Each	25208
<b>2</b>	<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		59785
	400		68507
	450		74325
	500		88959
	600		103515
	700		115161
	750		118075
	800		141365
	900		147482
	1000		176660
	1100		191245
	1200		220420
	1300		249592
	1400		279334
	1600		308566
	1800		365405
	2000		454730
<b>3</b>	<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.		



**30. OTHER ITEMS FOR THE YEAR 2017-18**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S.S. Rates for 2017-18.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	335
<b>2</b>	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	176
<b>3</b>	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	134
<b>4</b>	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.		
	a) 3 MM THICK	Per Kg	108
	b) 6 MM THICK	Per Kg	108
<b>5</b>	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	129

**31. S o R FOR RUBBER RINGS SUITABLE FOR  
SWG PIPES FOR THE YEAR 2017-18**

Sl. No.	Description	Unit	S.S Rates For 2017-18
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.G , For including cost of materials, loading, unloading , handling with company standard packing , transportation, unloading and stacking but excluding central excise duty and other taxes etc complete. The Rubber Rings shall be tested at the factory premises confirming to I.S No.651/1992</b>		
	100 mm dia	Each	53
	150 mm dia	Each	80
	200 mm dia	Each	120
	230 mm dia	Each	146
	250 mm dia	Each	186
	300 mm dia	Each	213
	350 mm dia	Each	253

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

### 32. S.S. RATES FOR GLASS FIBRE REINFORCED PLASTIC (GRP) PIPES

The PH & ME department deleted GRP pipes from the SSR 2013-14 and was not included in SoR 2014-15. The ENC (RWS) requested in the SoR meeting on 06.05.2015 to incorporate GRP pipes from SoR-2015-16 for carrying out O&M works, accordingly the following rates are adopted and ENC(RWS) addressed this office, vide Lr no AE/DEE/TDWSP(Plg)/2015 dt 22.05.2015 to incorporate GRP pipes from SoR 2015-16 for O&M works.

Sl.No.	Description							
1	2							
1	<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, un-loading 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 2017-18</b>					<b>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	2463	2532	2603	2671	2787	
	350 mm dia	Metre	2644	2681	2764	2841	2970	
	400 mm dia	Metre	2943	3074	3189	3335	3468	
	450 mm dia	Metre	3454	3588	3784	3970	4196	
	500 mm dia	Metre	3598	3744	3957	4205	4445	
	600 mm dia	Metre	5001	5207	5523	6085	6369	
	700 mm dia	Metre	5995	6268	7030	7667	8249	
	800 mm dia	Metre	7339	7685	8297	9027	9745	
	900 mm dia	Metre	9173	9565	10389	11268	12203	
	1000 mm dia	Metre	10995	11501	12371	13492	14542	
2	<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 2017-18.</b>					<b>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	107	107	107	107	107	
	350 mm dia	Metre	160	160	160	160	160	
	400 mm dia	Metre	240	240	240	240	240	
	450 mm dia	Metre	293	293	293	293	293	
	500 mm dia	Metre	373	373	373	373	373	
	600 mm dia	Metre	399	399	399	399	399	
	700 mm dia	Metre	452	452	452	452	452	
	800 mm dia	Metre	532	532	532	532	532	
	900 mm dia	Metre	585	585	585	585	585	
	1000 mm dia	Meter	679	679	679	679	679	

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

Note: 1) The material component is 50% of total cost.

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

3) The cost of other specials like tees, reducers etc with flange will be charge @4 times per meter cost of pipe.

4) The cost of other special like plain ended tees, reducers etc will be charge @ 2.50 times per meter cost of pipe.

The methodology adopted for rates is as follows:

Percentage of raw materials in the finished product of the pipe

1) Hoop Glass Fibre Rovings H% (35%), 2) Chop Glass C% (40%) and 3) Resin R% (25%)

The cost of variation in Raw materials are:

1) Variation in cost of Hoop Glass : h%

2) Variation in cost of Chop Glass : c%

3) Variation in cost of Resin : r%

The percentage of variation in cost of pipe allowed is  $(H \times h + C \times c + R \times r)/100$

The above raw materials rates are obtained from the principal manufacturers.

The rates of raw materials are:

1) Hoop Glass Fibre Rovings - Rs. 86.50/kg (Excluding CED&ST)

2) Chop Glass - Rs. 96.50/kg (Excluding CED&ST)

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

**33. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD  
FOR THE YEAR 2017-18**

Sl. No.	Description	Unit	S.S Rates For 2017-18
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	26000
	900 mm dia	Rmt	27300
	1000 mm dia	Rmt	28600
	1100 mm dia	Rmt	29900
	1200 mm dia	Rmt	31200
	1300 mm dia	Rmt	32500
	1400mm dia	Rmt	35100
	1500 mm dia	Rmt	39000

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

# LATEST G.O. ON SEIGNIORAGE CHARGES

GOVERNMENT OF TELANGANA  
ABSTRACT

Mines and Minerals – Revision of Rates of Seigniorage Fee and Dead Rent - Orders  
– Issued.

INDUSTRIES AND COMMERCE (MINES.I) DEPARTMENT

G.O.MS.No. 67

Dated: 26/09/2015  
Read the following

- 1) G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009
- 2) Government Memo No.418/M.I(1)/2015, dated:08.07.2015.
- 3) From the Director of Mines and Geology, Hyderabad Letter No.3305/MR/2014, dated:08.07.2015.

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**ORDER:**

The following notification will be published in the Extra-Ordinary Issue of the Telangana Gazettee dated:the 26<sup>th</sup> September, 2015.

**NOTIFICATION**

In exercise of the powers conferred by Section Sub-Section (1) of 15 of the Mines & Minerals (Development & Regulation) Act, 1957 (Central Act No.67 of 1957), the Government of Telangana hereby issue the following amendments to the A.P. Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries & Commerce (Mines-I) Department, dated:04-09-1967 and as amended subsequently from time to time and as adapted vide G.O.Ms.No.55, Industries & Commerce (Mines.I) Department, dated:26.08.2015 as A.P. Minor Mineral Concession Rules, 1966 (Telangana Adaptation) order, 2015.

**AMENDMENTS**

In the said rules, under rule 10 for Schedules I and II the following shall be substituted, namely:

**SCHEDULE-I**  
**RATES OF SEIGNIORAGE FEE**

Sl. No.	Name of the Minor Mineral	Unit	Rate of Seigniorage fee (In Rupees)
1	Building Stone, Rough Stone/ Boulders, Road Metal and Ballast	M3/MT	75/50
2	Dimensional Stone used for Kerbs & Cubes	MT	100/MT
3	Lime Kankar/ Limestone	MT	The rate of royalty as applicable to Limestone (other than LD Grade) in respect of major Minerals as per the 2 <sup>nd</sup> Schedule of the Mines & Minerals (D&R) Act, 1957.
4	Marble	M3/MT	250/100
5	Mosaic chips	MT	45
6	Morrum/Gravel & Ordinary Earth	M3/MT	30/20
7	Ordinary Sand	M3/MT	40/27
8	Shingle	M3/MT	25/17
9	Chalcedony Pebbles	M3/MT	75/50
10	Fullers Earth/ Bentonite	MT	150
11	Shale/Slate	MT	150
12	Rehmatti	MT	25
13	Limestone slabs	M2/MT	8/100

14	Brick Earth used in the manufacture of Bricks including Mangalore Tiles.	-	Rs.6000/- per kiln per annum	
15	Granite useful for cutting and polishing	Gang saw above 270 x above 150	Below 270 X below 150	Equal and below 70
a	Black Granite	3000	2300	1200
b	Colour Granite	2300	2000	1000

The rates shown at Sl.No.15 shall come into force w.e.f., two years from the date of this G.O. until then the rates ordered in G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009 shall continue to be in force.

**SCHEDULE-II**  
**Rates of Dead Rent**

Sl. No.	Name of the mineral	Rate of Dead Rent per hectare per Annum (in Rs.)
1	Black Granite	1,00,000
2	Colour Granite	80,000
3	Limestone other than classified as Major Minerals used for Lime burning or building construction purposes, Marble, Boulders, Building Stone including Stone used for Road Metal, Fullers Earth, Ballast Concrete and other Constructions purposes, Slate and Pyllites.	50,000
4	Gravel Morrum, Shingle, Limestone Slabs, used for Flooring purposes, Chalcedony Pebbles used in the building purposes, Limeshell for burning used for building purposes and Rehmatti.	40,000

2. The rate of royalty revised by Government of India with effect from 01.09.2014 in respect of (31) Major Minerals now declared as Minor Minerals and transferred to the State Government in the extra-ordinary issue of the Gazette Government of India Notification No.423(E) dated:10.02.2015 shall be continued, until further orders.

3. This order issues with the concurrence of Finance Department vide their U.O.No.11350/292/EBS-VII/I&C/2015, dated:18-09-2015.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

ARVIND KUMAR  
SECRETARY TO GOVERNMENT & CIP

To,

The Commissioner of Printing, Stationary & Stores Purchase (Ptg. Wing)  
Hyderabad. (He is requested to publish the above Notification in the Extra-Ordinary issue of Telangana Gazette, and arrange to send 1000 copies of the same to Government in Industries & Commerce (M.I) Department).

The Director of Mines and Geology, Telangana State, Hyderabad  
The Vice Chairman & Managing Director, Telangana State Mineral Development Corporation Ltd., Hyderabad.

All the Joint Director/Deputy Director/Assistant Directors of Mines and Geology through the Director of Mines and Geology, Hyderabad

**Copy to:**

The Secretary to Government, Ministry of Mines, GoI

The Law (A) Department.

The Finance Department.

The Industries and Commerce (Mines.II) Department.

The P.S. to Hon'ble Minister for Mines and Geology.

The P.S. to Secretary to Government & CIP, Ind. & Com. Dept.,  
SF/Sc.(C.No.418/M.I(1)/2015)

//Forwarded::By order//

SECTION OFFICER