



Government of Andhra Pradesh

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

BOARD OF CHIEF ENGINEERS

MASTER INDEX

SL.No.	Description	Page No.	
		From	To
1	Part-I(Water Resources Department Work Items)	1	44
2	Part-II (Roads & Bridge Works)	1	29
3	Part-IV(Public Health Works)	1	88
4	Part-III(Building Work Items)	1	343
5	Annexure-Latest G.O. on Seigniorage Charges	1	3

Procs.No.ENC/IW/P&M/EE.1/DEE-2/AEE/ SoR 2016-17/Vol.2 dt:26.07.2016

- Sub: Schedule of Rates for the year 2016-17 (as per A.P.Revised Standard Data)-Water Resources Dept. Works(Part-I),Road & Bridge Works(Part-2) and Drinking water supply schemes(Part-4)-approved-Printing& Communication of SoRs-Reg.
- Ref: 1)G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009
2)CE(PH) Lr.No. 146/T4/SoR/2016-17 dt:25.07.2016.
3)ENC(R&B) Lr.No.SoR-II/ENC(R)/DCE(R)/EE(TEC)/DEE7/AEE2/2016 dt:26.07.2016.
4)Industrial Consumer Price Index points obtained from Commissioner,Labour Department for the months of April,2016 to September,2016
5)Minutes of BOCEs meeting for Schedule of Rates held on 23.07.2016.

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

The ENC(R&B) vide ref. 3rd cited has furnished the draft rates for Roads & Bridge items for the year 2016-17.

The Chief Engineer, Public Health Department has furnished draft rates for Public Health works items and Public Health Materials vide ref 2nd cited.

The Engineer-in-Chief (Buildings), R&B Department has yet to furnish the Part-III of Common SoR i.e., Buildings.

For Water Resources Department work items, the regional Superintending Engineers: SE, IC, Dowlaiswaram, SE, IC, Chitoor and SE, IC, Vijayawada have submitted the draft basic rates of materials. The SE, IC, Guntur has furnished draft rates for Mechanical and Workshop items. Accordingly, the draft rates for Water Resources Department are prepared.

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 ref 4th cited for finalizing the Labour rates for SoR 2016-17.

Based on the above proposals, the draft Schedule of Rates for the parts I(WR items), Part-II(Roads & Bridge items) & Part-IV(PH items) are prepared for the SoR year 2016-17 and placed before the annual Board of Chief Engineers(BoCEs) meeting for approval. The BoCEs has reviewed and finalized the rates of above three parts during the

meeting held on 16.07.2016 at 3.00 P.M. in the Godavari Conference hall, Jalasoudha Building, Hyderabad.

The procedure for the adoption of Water Resources 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 A.P.Revised Standard Data approved by the Government vide G.O.1st cited.

For Roads & Bridge Works, the rates can be applied for MoRTH data as approved in the G.O. Ms. No. 2, Transport, Roads and Buildings (R-I) Dept., dt: 12.01.2015.

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

The attention to the following points is invited in respect of Cement Rates in the A.P. SoR 2016-17.

Important note on Cement(OPC) Rates:

The Cement rates are being finalized district-wise from the month of June,2015 onwards. However, for the sake of fixing the Cement rate in the current SoR-2016-17, the average of Cement Rates of all the 13 Districts finalized in the month of May-2016 is taken. From June-2016 onwards, district-wise rates may be adopted as per prevalent Government instructions. *The Field Engineers are directed to substitute District-wise cement rates in Basic data sheet of the soft copy for arriving estimates for works in respective districts.*

No other items other than the items communicated by this Office shall be introduced in the SoR.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2016-17. Unauthorized printing & selling of the SoR is strictly prohibited.

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

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

The receipt of the proceedings may be acknowledged.

Encl: SoR 2016-17 containing Part-I(Water Resources Dept. works),Part-II(Roads & Bridge works) and Part-IV (Public Health Items)

Sd/-M.V.Ravi Kumar,dt:26.07.2016,
Engineer-in-Chief(I.W.)
Chairman, BOCE(SoR)

I) Copy communicated to the Principal Secretary to Govt.,WR Dept.,J-Block,A.P.Secretariat Buildings,Hyderabad.

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

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

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

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

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

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

6) Copy of Schedule of Rates 2016-17 & Standard data, part-1 (WR Dept. works) communicated to the respective E-mail ids of all the Engineers-in-Chief, Chief Engineers and Regional Superintending Engineers of Irrigation circles of Vijayawada, Guntur, Dowlaiswaram and Chittoor of Water Resources Department for taking necessary action

Sd/-M.V.Ravi Kumar,dt:26.07.2016,
Engineer-in-Chief(I.W.)
Chairman, BOCE(SoR)

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 Water Resources 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 Water Resources Department works (Part-1) of A.P. 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 Water Resources 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 Water Resources work items in the software package and hard copy of SoR & Standard data's (part-1) may be brought to the notice of undersigned for issuing corrections.

Sd/-M.V.Ravi Kumar, dt:26.07.2016,
Engineer-in-Chief(I.W.)
Chairman, BOCE(SoR)

Index – WR Items (Part-I)

Sl. No.	Description	Page No.s	
		From	To
1	Preamble	1	4
2	Labour Rates	5	9
3	Material Rates	10	35
4	Conveyance Charges of Materials	36	40
5	Hire Charges of Machinery	41	44

PART-I
(WATER RESOURCES
DEPARTMENT WORK ITEMS)

PREAMBLE

PREAMBLE

I.0 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 Andhra Pradesh except Greater Visakhapatnam and Vijayawada municipal corporations (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation (up to a belt of 12 Kms. from Municipal Corporation limits).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms from Municipal limits).
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapleswara Swamy Temple, Kapilattheerthm, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

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 10Kms belt of Industrial area of, Ibrahimpatnam, Vuyyuru, Jaggaiahpet in Krishna District, Macherla, Gurajala, Challapalli in Guntur District Garividi in Vijayanagaram District, Renigunta in Chittoor District and Yerraguntla & Mangampet in Kadapa District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District, Anakapally of Vishakhapatnam 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 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 EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

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

A. TRIAL TRENCHES:

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

B. TRIAL PITS:

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

II) EXCAVATION IN RESTRICTED PLACES:-

I) Foundation of Buildings	...	75% extra
II) For pipe lines where the depth is less 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 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 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.

3.0 SEIGNIORAGE CHARGES:

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.100 (Industries and Commerce Dept.) dt: 31.10.2015. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

LABOUR RATES

LABOUR RATES

Sl No.	CATEGORY OF WORKER	S. Rate for 2016-17
1	2	3
I.	SKILLED CATEGORY:	
1	Bar bender	555
2	Black smith / Tin smith / Rivetor	445
3	Blaster	510
4	Carpenter CI- I	475
5	Electrician (Licensed)	515
6	Fitter CI- I	475
7	Floor Polisher / Tile Layer	445
8	Foreman	510
9	Gauge reader	425
10	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	450
11	Mason CI- I / Brick layer CI- I	445
12	Mechanic CI- I	475
13	Operator Air compressor / DG set	445
14	Operator Batching plant	510
15	Operator Bus/Ambulance/ Lorry/ Tanker	510
16	Operator Concrete / Asphalt mixer	445
17	Operator Concrete / Asphalt paver	445
18	Operator Concrete pump / Placer/ ice plant	445
19	Operator Core drilling machine	510
20	Operator Crane/ Tower crane/ Cable way	510
21	Operator Drilling jumbo / Loco / Winch	445
22	Operator Grouting/ Guniting/ Shotcreting	445
23	Operator Jackhammer/Pneumatic tamper	445
24	Operator Pump / Ventilation fan	445
25	Operator Lathe/Drilling/Shearing machine	510
26	Operator Bending / Planing machine	445
27	Operator Road roller	445

Sl No.	CATEGORY OF WORKER	S. Rate for 2016-17
1	2	3
28	Operator Shovel / Scraper / Dozer	510
29	Operator Spillway / Sluice gate	445
30	Operator Crusher / Conveyor / Mucker	445
31	Operator Tipper / Dumper / Transit mixer	510
32	Operator Concrete vibrator	445
33	Operator Vibratory plain / pad foot roller	445
34	Operator Wagon drill / Drifter	510
35	Painter CI- I	510
36	Plumber / Pipe fitter	510
37	Sarang / Khalasi	445
38	Spun pipe moulder	445
39	Stone chiseller CI- I / Stone cutter CI- I	445
40	Struct. steel Fabricator / Marker / Erector	550
41	Welder / Gas Cutter	445
42	Welder (X-ray quality)	510
II.	SEMI SKILLED CATEGORY:	
1	Asphalt Sprayer / Boiler attendant	400
2	Bhisti	400
3	Boatman with boat	415
4	Carpenter CI- II / Erector shuttering	400
5	Cartman with double bullock cart	465
6	Cartman with single bullock cart	435
7	Chavali / Navagani	400
8	Crowbarman / Jumper man	400
9	Fitter CI- II	400
10	Gang man / Head / Survey mazdoor	400
11	Gardener / Trained mali	400
12	Air compressor / DG set	400
13	Helper Batching plant	400
14	Helper Blasting	400

Sl No.	CATEGORY OF WORKER	S. Rate for 2016-17
1	2	3
15	Helper Bus/ Ambulance/ Lorry/ Tanker	400
16	Helper Bending/Shearing/Planing machine	400
17	Helper Carpenter	400
18	Helper Concrete / Asphalt mixer	400
19	Helper Concrete / Asphalt paver	400
20	Helper Core drilling machine	400
21	Helper Crane/ Tower crane/ Cable way	400
22	Helper Drilling jumbo / Loco / Winch	400
23	Helper Fitter / Fabrication/Electrician	400
24	Helper Grouting/ Guniting/ Shotcreting	400
25	Helper Jack hammer / Pneumatic tamper	400
26	Helper Laboratory / Instrumentation	400
27	Helper Road roller	400
28	Helper Shovel / Scraper / Dozer	400
29	Helper Crusher / Conveyor / Mucker	400
30	Helper Tipper / Dumper/ Transit mixer	400
31	Helper Vibrator	400
32	Helper Vibratory plain/ pad foot roller	400
33	Helper Wagon drill/ Drifter	400
34	Lineman Electric / Telephone	400
35	Mason CI- II / Brick layer CI-II	400
36	Mechanic CI- II	400
37	Painter CI- II	400
38	Patkari / Neeraganti / Sowdy	400
39	Stone Chiseller CI- II	400
40	Stone breaker / Hammer man	400
41	Valve man / Canal sluice operator	400
III.	UN-SKILLED CATEGORY:	
1	Cement / Asphalt handling mazdoor	350
2	Civic worker	350
3	Man mazdoor	350

Sl No.	CATEGORY OF WORKER	S. Rate for 2016-17
1	2	3
4	Woman mazdoor	350
5	Watchman	350
IV.	OTHER CATEGORY:	
1	Care-taker / conductor / Lift Attender	420
2	Cook / Mess man	420
3	Dhobi	420
4	Diploma Engineer / Surveyor	645
5	Diver with headgear	520
6	Graduate / Laboratory Assistant	520
7	Graduate Engineer/ Geologist	860
8	Horticulture Assistant / Photographer	425
9	ITI certificate holder / Tracer / Printer	520
10	Literate mazdoor	405
11	Stenographer / Computer Operator	565
12	Telephone / Wireless Operator	510
13	Typist / Job Typist	510
14	CAD operator with Diploma in Engineering/General degree with CAD certificate	690
15	Jeep Driver	505
16	Data Processing Operator	690

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 Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation limits only.

BASIC INPUT DATA FOR WATER RESOURCE WORK ITEMS

STATEMENT OF RATES FOR MATERIALS FOR
THE YEAR : 2016-17
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:

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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
1	Acetylene gas	cum	335
2	Asphalt 80/100 Grade	Kg	46
3	Binding wire	Kg	60
4	Burnt stone slab 10 cm thick	sqm	320
5	Cement 43 Gr/53 Gr Note: As per Monthly rate fixed by Sub-Committee.	tonne	5350 (Avg. Rate of 13 Dists. for 5/2016)
6	Chequered plate	Kg	63
7	Coarse aggregate 10-4.75 mm(excluding Seigniorage charges)	cum	900
8	Coarse aggregate 20-10 mm(excluding Seigniorage charges)	cum	1225
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	1175
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	650
	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	45

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
12	Copper sheet 16 SWG	kg	695
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	23
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	26
15	Curing Compound	Ltr	130
16	D – cord	Rm	8
17	Delay - noiseless trunk	Each	19
18	Detonating fuse coil	Rm	9
19	Detonating shock tube / Cord relays	Rm	40
20	Detonator delay type	Each	20
21	Detonator electric	Each	11
22	Detonator ordinary	Each	7
23	Empty cement bag	Each	5
24	Explosive ANFO	kg	48
25	Explosive ANFO high strength booster	kg	73
26	Explosive small dia (Kelvex-220 or equivalent)	kg	70
27	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items) (excluding Seigniorage charges)	cum	95
	(b)Fineaggregate/Sand(unscreened)for filling(excluding Seigniorage charges)		95
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges) (Rs.70 is added towards screening Charges)	cum	165
29	Geo-textile (filter fabric) 160 gsm	sqm	110
30	Geo-textile (filter fabric) 200 gsm	sqm	130
31	Geo-textile (filter fabric) 250 gsm	sqm	150
32	G I Pipe 100 mm dia B Class	Rm	735
33	G I Pipe 15 mm dia A class	Rm	100
34	G I pipe 25 mm dia A class	Rm	160
35	G I pipe 40 mm dia B class	Rm	270

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
36	G I pipe 50 mm dia A class	Rm	310
37	G I Pipe 80 mm dia B Class	Rm	500
38	G.I Bolts / Nuts and Washers	kg	100
39	G.I sheet (plain)	tonne	63000
40	Hariyala turfing sods	sqm	28
41	Hectometer stone one line dressed	Each	260
42	Hemp yarn	kg	72
43	Honne wood planks	cum	54000
44	Hume pipe with collar 150 mm dia	Rm	275
45	Hume pipe with collar 300 mm dia	Rm	600
46	J- Bolts 30 cm long	Each	37
47	Jungle wood planks	cum	23000
48	Khandki stone 15 to 20 cm height	Each	12
49	Khandki stone 20 to 25 cm height	Each	15
50	Khandki stone 25 to 30 cm height	Each	17
51	Kilometer stone one line dressed	Each	480
52	LDPE sheet (Geo membrane) 500 micron thick	sqm	92
53	LDPE sheet (Geo membrane) 750 micron thick	sqm	135
54	LDPE sheet (Geo membrane) 1000 micron thick	sqm	185
55	M S Bolts / Nuts / Washers	kg	80
56	Murum(including loading charges but excluding Seigniorage charges)	cum	165
57	Oxalic acid	Ltr	80
58	Oxygen gas	cum	42
59	PVC sealing strip	Rm	45
60	PVC water stopper 310 mm wide	Rm	470
61	PVC pipe of 100 mm dia	Rm	170
62	Reinforcement steel (HYSD/TMT)(Fe-415) Note: As per Monthly rate fixed by Sub-Committee	tonne	34,000(Rate for 5/2016)

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
63	Resin bond Cement capsule	Each	50
64	Rough stone 20 x 20 x 75 cm (Including Loading charges but excluding Seigniorage Charges)	Each	23
65	Shahabad stone slab (including loading charges but excluding Seigniorage charges)	sqm	235
66	Stone chips (at dump yard/Spoil)(including loading charges but excluding Seigniorage charges)	cum	185
67	Stone chips (at quarry)(including loading charges but excluding Seigniorage charges)	cum	350
68	Structural steel angle / channel / beam / bars Note: As per Monthly rate fixed by Sub-Committee	tonne	37,500(Rate for 5/2016)
69	Structural steel plate / flats Note: As per Monthly rate fixed by Sub-Committee	tonne	37,400(Rate for 5/2016)
70	Super Plasticizer (Conplast RP-264 or equivalent)	kg	55
71	Synthetic Enamel paint 1st quality	Ltr	260
72	Synthetic adhesive (Resin + Hardener)	Kg	360
73	Tar felt joint filler board 12 mm thick	sqm	415
74	Tar felt joint filler board 20 mm thick	sqm	630
75	Through stones 20 x 20 x 30 to 45 cm (including loading charges but excluding Seigniorage charges)	Each	22
76	Through stones 25 x 25 x 45 to 60 cm long (including loading charges but excluding Seigniorage charges)	Each	39
77	Through stones 30 x 30 x 65 to 75 cm long (including loading charges but excluding Seigniorage charges)	Each	59
78	Un-coursed rubble stones (at dump yard /Spoil) (including loading charges but excluding Seigniorage charges)	cum	155
79	Un-coursed rubble stones (at quarry)(including loading charges but excluding Seigniorage charges)	cum	318
80	Water proofing compound	kg	80
81	Welding electrodes 4 mm dia	Each	13
82	Wire brush	Each	41

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
83	Wire mesh 20 gauge	sqm	235
84	Zinc chromate red oxide primer paint	Ltr	180
85	inorganic zinc silicate	Ltr	620
86	solvent less coal tar epoxy paint	Ltr	260
87	Zinc phosphate primer	Ltr	223
88	Allkyd based iron oxide paint	Ltr	185
89	a) Cost of hdpe (90mm dia)	Rm	230
	b) light black MS casing pipe 100 mm dia (4mm thick)	Rm	480
90	welded steel wire fabric 100X100X5 mm size	Kg	185
91	Protective Mastic	Ltr	480
92	Solventless coal tar epoxy (brown)	Ltr	300

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

GUIDE LINES:

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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
1	Alloy steel (IS : 1570-carbon steel) shafts	Kg	235
2	Alloy steel (IS : 1570-stainless steel) pins	Kg	450
3	Bolt / Nut / Washer (hot dipped galvanized)	Kg	140
4	Bolt / Nut / Washer (stainless steel)	Kg	365
5	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	970
6	Cast iron blocks	Kg	85
7	Cast steel drums / gears	Kg	235
8	Cast steel pinions	Kg	225
9	Cast steel wheels / pulleys / hubs / rollers / Retainers	Kg	190
10	Chemical for de-greasing/ de-rusting/phosphate	Ltr	130
11	Coal tar epoxy paint	Ltr	215
12	Forged steel hooks / shackles	Kg	280
13	MS pipe 200 / 300 mm dia	Kg	175
14	MS pipe 32 mm dia	Rm	185
15	MS pipe 25 mm dia	Rm	150
16	Rubber bottom seal (IS : 11855) (100mmX14 mm)	Rm	780
17	Rubber side seal (music note type Teflon claded) (IS : 11855) (36ØX113mmX14mm)	Rm	1670
18	Rubber side seal (music note type uncladed) (IS : 11855) (36ØX113mmX14mm)	Rm	1210
19	Rubber side seal Z-type (IS : 11855) (36ØX120mmX19mm)	Rm	1600

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2016-17
1	2	3	4
20	Rubber corner seal (Teflon claded) (IS : 11855) (36Ø)	Each	1630
21	Rubber corner seal (un claded) (IS : 11855) (36Ø)	Each	1150
22	Stainless steel plates / flats	Kg	275
23	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	15
24	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	23
25	Wire rope 6x37 constn (IS : 2266)	Kg	200
26	Zinc	Kg	178
27	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	700

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

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

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

GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:

1 The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be inclusive of all taxes, duties, other levies.

2 The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.

3 The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and other consumable accessories shall not be included in the capital cost.

4 In cases, where the current capital cost of machinery / equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

Sl No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2016-17
1	2	3	4
1	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	21,50,000
	tyres and tubes 6 sets		86,000
2	Air compressor 5 cmm electric	Each	7,10,000
3	Air compressor 7 cmm diesel	Each	9,50,000
4	Air compressor 7 cmm electric	Each	8,65,000
5	Air compressor 8.5 cmm diesel	Each	10,85,000
6	Air compressor 8.5 cmm electric	Each	11,20,000
7	Air compressor 15 cmm electric	Each	13,70,000
8	Angle Dozer 90 hp	Each	54,75,000
9	Batching plant 0.5 cum with accessories(6 Cum/hr)	Each	12,00,000
10	Batching plant 2 x 1.00 cum with accessories (15 Cum/hr)	Each	42,45,000
11	Batching plant 2 x 1.50 cum with accessories (50 Cum/hr)	Each	65,00,000
12	Bending machine	Each	5,30,000
13	Clamp shell and hoisting ropes	Each	30,000
14	Concrete bucket 1.5 cum	Each	56,000
15	Concrete hand mixer 45/30 ltr	Each	15,500
16	Concrete mixer 300/200 ltr(diesel)	Each	1,50,000
17	Concrete mixer 300/200 ltr (electric)	Each	1,45,000
18	Concrete mixer 600/400 ltr(diesel)	Each	2,60,000
19	Concrete mixer 600/400 ltr (electric)	Each	2,55,000

SI No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2016-17
1	2	3	4
20	Concrete paver 100 Sqm / hr	Each	23,61,000
21	Convey mucker (excluding tyres)	Each	38,55,000
	tyres and tubes 6 sets		86,000
22	Core drilling machine	Each	11,00,000
23	Diesel generating set 30 KVA	Each	4,95,000
24	Diesel generating set 50 KVA	Each	6,40,000
25	Diesel Loco 45 hp	Each	21,20,000
26	Dewatering pump 5 hp diesel	Each	40,000
27	Dewatering pump 5 hp electric	Each	24,500
28	Dewatering pump 10 hp diesel	Each	60,000
29	Dewatering pump 10 hp electric	Each	55,000
30	Dewatering pump 20 hp diesel	Each	1,90,000
31	Dewatering pump 20 hp electric	Each	1,00,000
32	Drifter	Each	10,58,000
33	Drilling jumbo (excluding tyres)	Each	13,02,000
	tyres and tubes 6 sets		86,000
34	Dumper 4.5 cum (excluding tyres)	Each	14,50,000
	tyres and tubes 6 sets		86,000
35	Geophysical Ele.resistivity meter	Each	4,75,000
36	Grouting pump	Each	1,02,000
37	Guniting / sand blasting equipment	Each	2,80,000
38	Ice plant with accessories 30 t / day	Each	22,80,000
39	Jack hammer	Each	65,000
40	Needle vibrator 40 mm petrol	Each	20,000
41	Needle vibrator 40 mm electric	Each	21,000
42	Needle vibrator 60 mm petrol	Each	21,500
43	Needle vibrator 60 mm electric	Each	25,500
44	Planing machine 4 m stroke	Each	7,80,000
45	Plate shearing machine up to 12 mm	Each	4,25,000

SI No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2016-17
1	2	3	4
46	Pneumatic placer 0.5 cum	Each	5,80,000
47	Pneumatic tamper	Each	85,000
48	Pug cutting machine	Each	16,000
49	Pusher leg	Each	52,000
50	Road roller diesel 10 t	Each	8,50,000
51	Shovel 0.50 cum 75 hp	Each	37,50,000
52	Shovel 0.85 cum 110 hp	Each	63,80,000
53	Stationery derrick crane 5 t	Each	6,53,000
54	Tipper 5 cum (excluding tyres)	Each	16,25,000
	tyres and tubes 6 sets		86,000
55	Tipping tub 1.5 cum	Each	2,40,000
56	Tower crane 5 tonne	Each	74,75,000
57	Transformer 250 KVA	Each	4,25,000
58	Truck 10 t (excluding tyres)	Each	14,75,000
	tyres and tubes 6 sets		86,000
59	Truck mounted derrick crane 5 t (excluding tyres)	Each	19,60,000
	tyres and tubes 6 sets		86,000
60	Upright drilling machine	Each	56,000
61	Ventilation fan 20 hp	Each	2,60,000
62	Vibratory pad foot roller 8 t	Each	29,50,000
63	Wagon drill	Each	6,50,000
64	Water tanker 8000 ltr (excluding tyres)	Each	14,22,000
	tyres and tubes 6 sets		86,000
65	Welding set	Each	48,000
66	Winch 35 hp electric	Each	3,75,000
67	Hydraulic Truck Crane 30T	Each	1,44,84,250
	tyres and tubes 6 sets		1,85,220
68	Hydraulic Truck Crane 16T	Each	1,03,90,875
	tyres and tubes 6 sets		1,85,220

SI No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2016-17
1	2	3	4
69	Heavy Duty Airless Spray Painting Equipment	Each	4,87,770
70	Concrete Placer Pump(25 Cum/hr)(Electric)	Each	34,04,430

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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2016-17
1	2	3	4
1	Casing shoe bit	Each	10500
2	Diamond core bit BX size	Each	10600
3	Diamond core bit NX size	Each	12720
4	Double tube core barrel	Each	13568
5	Extension drill rod with coupling sleeve	Rm	2120
6	Jack hammer drill rod 1.5 m	Each	4028
7	Jack hammer drill rod 2.5 m	Each	6254
8	Nozzle for Guniting / sand blasting gun	Each	700
9	Paving Cylinder	Each	28080
10	Rails 30R (30 kg / m)	tonne	51500
11	Reamer shell	Each	5150
12	T.C. Cross bit 50 mm dia	Each	5000
13	T.C. Cross bit 75 mm dia	Each	10000
14	T.C. Cross bit 100 mm dia	Each	12000
15	Tyres and Tubes for truck	Set	18000
16	Wire rope 16 mm dia	Rm	265
17	Excavation of drain with Excavator	cum	35

AGGREGATE CRUSHING & PROCESSING PLANT

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2016-17
1	2	3	4
1	Jaw crusher 900 x 500 mm (120 tph) with 50 hp motor	Each	These items are no where being used in the Standard Data. Hence this may be deleted from SoR
2	Jaw crusher 500 x 300 mm (60 tph) with 30 hp motor	Each	
3	Jaw crusher 400 x 225 mm (10 tph) with 25 hp motor	Each	
4	Jaw plates 900 x 500 mm (serreted)	Set	
5	Jaw plates 500 x 300 mm (serreted)	Set	
6	Jaw plates 400 x 225 mm (serreted)	Set	
7	Nylon Conveyor belt 3 ply 600 mm width	Rm	
8	Nylon Conveyor belt 3 ply 1000 mm width	Rm	

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

1.The rate provided for ' SUNDRIES' (Lump sum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.

2 .The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.

3 . Demand charges and electric power charges shall be as per prevailing APEPDCL tariff.

4 . Rate of interest on capital cost shall be as approved by Govt or other competent authority.

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2016-17
1	2	3	4
1	Air hose 25 mm dia	Rm	185
2	Air hose 50 mm dia	Rm	300
3	Demand charges (HT-I : General-11 KV category) on power supply	KVA / month	371
4	Diesel	Ltr	57.70
5	Electric power (HT-I(A):General -11 KV) Category) including tax	Kwhr	6.26
6	Excise duty on Gates / Hoist supplies	%	0%
7	Insurance charges on machinery	% / annum	1%
8	Interest on capital cost	% / annum	11.00%

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2016-17
1	2	3	4
9	Lubricants	Ltr	260
10	Petrol	Ltr	68.45
11	Rivets	Kg	100
12	Road tax on transport vehicles	Rs./annum	As per RTA
13	Shalimastic sealing compound	Kg	94
14	Shutter oil	Ltr	50
15	Structural steel fabrication	Kg	24
16	Sundries (Lump sum for un quantified inputs)	LS	30
17	Water hose (pressure) 20 mm dia	Rm	185
18	Steel wedges	LS	16
19	Elbows / Nipple / Plugs etc.,	LS	17
20	Soldering materials	LS	17
21	Steam circulation arrangement	LS	17
22	Fuel charges (gas for heating)	LS	17
23	Vulcanizing materials	LS	17
24	Other accessories / controls / junctions	LS	deleted
25	Miscellaneous fittings / switches etc	LS	deleted
26	Anchors / supports for cables / lights	LS	deleted
27	Civil works for foundations / pedestals / duct etc	LS	deleted
28	Gas cutting set (2 No's 15 m hose and nozzle unit)	Each	14500
29	Grease	Kg	275
30	Welding holder set (cable / holder / gloves / mask etc)	Each	7800
31	Use rate of ropes	LS	150

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

SI No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2016-17
1	Worm reducers	Each	224400
2	Electric motor 20 hp(Double Shaft)	Each	121000
3	Electric motor 17.5 hp(Double Shaft)	Each	85800
4	Electric motor 12.5 hp(Double Shaft)	Each	72600
5	Electric motor 5 hp(Double Shaft)	Each	33000
6	Electric motor 3 hp (Double Shaft)	Each	23100
7	Electric motor 2 hp (Double Shaft)	Each	12100
8	Floating shaft 300 mm dia	Kg	180
9	Manual operating system	Each	28820
10	Gate position indicator	Each	195800
11	Ele-magnetic brake	Each	35200
12	Electric cable / switch / control panel etc	LS	50380
13	Wire rope sockets	Each	4620

Materials other than covered under WR Work
items For the year 2016-17
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
2. The rates for materials is inclusive of all taxes, duties and other local levies.
3. The rates for materials are exclusive of Seigniorage charges wherever applicable.
4. The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-002	Quarried stone 150 - 200 mm size for Hand Broken (Excluding Seigniorage charges)	Cum	147
M-003	Boulder with minimum size of 300 mm for Pitching (Excluding Seigniorage charges)	Cum	164
M-004	Coarse sand for filling (Excluding Seigniorage charges)	Cum	Rate as per item no.27(b) of material of WRD
M-005	Coarse sand for mortar(Excluding Seigniorage charges)	Cum	Rate as per item no.27(a) of material of WRD
M-006	Fine Sand (Excluding Seigniorage charges)	Cum	Rate as per item no.28 of material of WRD
M-007	Murum (Excluding Seigniorage charges)	Cum	Rate as per item no.56 of Material rates of WRD.
M-008	Gravel/Quarry spall(Excluding Seigniorage Charges)	Cum	103
M-009	Granular Material or hard murum for GSB works	Cum	Deleted
M-010	Granular Material or hard murum for GSB works(Excluding Seigniorage charges)	Cum	92
M-011	Fly ash conforming to IS: 3812 (Part II & I)	Cum	72
	For item No.M-012 to M-055 the note shall be as follows 1) The rates mentioned are exclusive of Seigniorage charges but inclusive of blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted. 2) If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing charges shall be deducted. 3)The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-012	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) (excluding Seigniorage Charges)	Cum	345
M-013	Close graded Granular sub-base Material 53 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	667
M-014	Close graded Granular sub-base Material 37.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	685
M-015	Close graded Granular sub-base Material 26.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	711
M-016	Close graded Granular sub-base Material 9.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	592
M-017	Close graded Granular sub-base Material 9.5 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	582
M-018	Close graded Granular sub-base Material 4.75mm to 2.36 mm (excluding Seigniorage Charges)	Cum	510
M-019	Close graded Granular sub-base Material 4.75mm to 75 micron mm((excluding Seigniorage Charges)	cum	489
M-020	Close graded Granular sub-base Material 2.36 mm (excluding Seigniorage Charges)	Cum	489
M-021	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve. (excluding Seigniorage Charges)	Cum	357
M-022	Coarse graded Granular sub-base Material 2.36 mm & below (excluding Seigniorage Charges)	Cum	438
M-023	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm (excluding Seigniorage Charges)	cum	474
M-024	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	474
M-025	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	561
M-026	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	619
M-027	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	620
M-028	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	685
M-029	Coarse graded Granular sub-base Material 53 mm to 26.5mm (excluding Seigniorage Charges)	Cum	850
M-030	Aggregates below 5.6 mm(excluding Seigniorage Charges)	Cum	557
M-031	Aggregates 22.4 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	914
M-032	Aggregates 22.4 mm to 5.6 mm (excluding Seigniorage Charges)	Cum	1040
M-033	Aggregates 45 mm to 2.8 mm (excluding Seigniorage Charges)	Cum	667

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-034	Aggregates 45 mm to 22.4 mm (excluding Seiniorage Charges)	Cum	Rate as per item no.9 of Material rates of WRD.
M-035	Aggregates 53 mm to 2.8 mm (excluding Seiniorage Charges)	Cum	914
M-036	Aggregates 53 mm to 22.4 mm (excluding Seiniorage Charges)	Cum	872
M-037	Aggregates 63 mm to 2.8 mm (excluding Seiniorage Charges)	Cum	714
M-038	Aggregates 63 mm to 45 mm (excluding Seiniorage Charges)	Cum	662
M-039	Aggregates 90 mm to 45 mm (excluding Seiniorage Charges)	Cum	Rate as per item no.10 of Material rates of WRD.
M-040	Aggregates 10 mm to 5 mm (excluding Seiniorage Charges)	Cum	Rate as per item no.7 of Material rates of WRD.
M-041	Aggregates 11.2 mm to 0.09 mm (excluding Seiniorage Charges)	Cum	704
M-042	Aggregates 13.2 mm to 0.09 mm(excluding Seiniorage Charges)	Cum	798
M-043	Aggregates 13.2 mm to 5.6 mm (excluding Seiniorage Charges)	Cum	919
M-044	Aggregates 13.2 mm to 10 mm(excluding Seiniorage Charges)	Cum	1029
M-045	Aggregates 20 mm to 10 mm (excluding Seiniorage Charges)	Cum	Rate as per item no.8 of Material rates of WRD.
M-046	Aggregates 25 mm to 10 mm (excluding Seiniorage Charges)	Cum	1129
M-047	Aggregates 19 mm to 6 mm (excluding Seiniorage Charges)	Cum	1040
M-048	Aggregates 37.5 mm to 19 mm(excluding Seiniorage Charges)	Cum	1103
M-049	Aggregates 37.5 mm to 25 mm(excluding Seiniorage Charges)	Cum	1145
M-050	Aggregates 6 mm nominal size(excluding Seiniorage Charges)	Cum	735
M-051	Aggregates 10 mm nominal size(excluding Seiniorage Charges)	Cum	935
M-052	Aggregates 13.2/12.5 mm nominal size(excluding Seiniorage Charges)	Cum	1097
M-053	Aggregates 20 mm nominal size(excluding Seiniorage Charges)	Cum	1365
M-054	Aggregates 25 mm nominal size(excluding Seiniorage Charges)	Cum	1313

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-055	Aggregates 40 mm nominal size(excluding Seiniorage Charges)	Cum	845
M-056	AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	Acrylic polymer bonding coat	Litre	474
M-058	Aluminum Paint	Litre	330
M-059	Aluminum alloy plate 2mm Thick	Sqm	381
M-060	Aluminum alloy/Galvanized steel	Tonne	70,931
M-061	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	968
M-062	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market rate
M-063	Barbed wire	Kg	80
M-064	Bearing (Cost of parts)	No's	570
M-065	Bearing (Cast steel rocker bearing assembly of 250 tonne)	No's	785
M-066	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm ³	As per Market Competitive rates.
M-067	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's	
M-069	Bearing (PTFE sliding plate bearing assembly of 80 tonnes)	No's	
M-070	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	Bentonite	Kg	7.5
M-072	Binding wire	Kg	Rate as per item no.3 of Material rates of WRD.
M-073	Bitumen (Cationic Emulsion)	Tonne	As per rates fixed by R&B Dept based on refinery rates
M-074	Bitumen (60-70 grade)(Excluding taxes)	Tonne	
M-075	Bitumen (80-100 grade) (Excluding taxes)	Tonne	

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-076	Bitumen (Cutback)	Tonne	As per rates fixed by R&B Dept based on refinery rates
M-077	Bitumen (emulsion)(Excluding taxes)	Tonne	
M-078	Bitumen (modified graded)	Tonne	
M-079	Brick	Each	As per Building SSR
M-080	C.I. shoes for the pile	Kg	54
M-081	Cement	Tonne	Rate as per item no.5 of Material rates of WRD.
M-082	Cold twisted bars (HYSD/TMT Bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-083	Collar for joints 300 mm dia	No's	165
M-084	Compressible Fibre Board(20mm thick)	Sqm	541
M-085	Connectors/ Staples	Each	82
M-086	Copper Plate(12m long x 250mmwide)	Kg	327.50
M-087	Corrosion resistant Structural steel	Tonne	59,225
M-088	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	206
M-089	Credit for excavated rock found suitable for use	Cum	194
M-090	Curing compound	Liter	130
M-091	Delineators from ISI certified firm as per the standard drawing given in IRC - 79	Each	As per local competitive quotations
M-092	Earth Cost or compensation for earth taken from private land(Excluding Seigniorage Charges)	Cum	50
M-093	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations
M-094	Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item No. 21 of WRD
M-095	Epoxy compound with accessories for preparing epoxy mortar	Kg	361
M-096	Epoxy mortar	Kg	118
M-097	Epoxy primer	Kg	613
M-098	Epoxy resin-hardner mix for prime coat	Kg	633
M-099	Flag of red color cloth 600 x 600 mm	Each	25

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-100	Flowering Plants	Each	40
M-101	Galvanized MS flat clamp	No's	195
M-102	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	180
M-103	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	932
M-104	Gelatin 80%	Kg	73
M-105	Geo grids	Sqm	As per local competitive quotations
M-106	(a)Geo membrane 500 micron thick	Sqm	Rate as per item No. 52 of WRD
	(b) Geo membrane 750 micron thick	Sqm	Rate as per item No. 53 of WRD
	(c) Geo membrane 1000 micron thick	Sqm	Rate as per item No. 54 of WRD
M-107	Geo nets	Sqm	As per local competitive quotations
M-108	(a)Geo textile 160 gsm	Sqm	Rate as per item No. 29 of WRD
	(b) Geo textile 200 gsm	Sqm	Rate as per item No. 30 of WRD
	(c) Geo textile 250 gsm	Sqm	Rate as per item No. 31 of WRD
M-109	Geo textile filter fabric	Sqm	As per local competitive quotations
M-110	GI bolt 10 mm Dia	No's	23
M-111	Grouting pump with agitator	Hour	Rate covered in Item No.36 of hire charges of machinery of Water Resources work items
M-112	Grass (Doob)	Kg	6
M-113	Grass (Fine)	Kg	8
M-114	HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115	HDPE pipes 90mm dia	Metre	

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-116	Hedge plants	Each	Rate as per local competitive quotations
M-117	Helical pipes 600mm diameter	Metre	
M-118	Hot applied thermoplastic compound	Litre	
M-119	HTS strand	Tonne	40000
M-120	Joint Sealant Compound	Kg	75
M-121	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	90
M-122	LDO for steam curing	Litre	65
M-123	M.S. Clamps	Kg	Deleted
M-124	M.S. Clamps	Kg	Rate as per local competitive quotations
M-125	M.S. shoes @ 35 Kg per pile of 15 m	Kg	Rate as per local competitive quotations
M-126	Mild Steel bars	Tonne	46,865
M-127	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized	Metre	Rate as per local competitive quotations
M-128	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-129	Nipples 12mm	No's	20
M-130	Nuts and bolts	Kg	100
M-131	Paint	Litre	255
M-132	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	Paving Fabric	Sqm	
M-134	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	Perforated pipe of cement concrete, internal dia 100 mm	Metre	

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-136	Pesticide	Kg	Rate as per local competitive quotations
M-137	R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item
M-138	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	55
M-139	Plastic tubes 50 cm dia , 1.2 m high	No's	Rate as per local competitive quotations
M-140	Polymer braids	Metre	
M-141	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	275
M-142	Pre-coated stone chips of 13.2 mm nominal size	Cum	Rate as per local competitive quotations
M-143	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Metre	Rate as per local competitive quotations
M-144	Pre-moulded asphalt filler board	Sqm	
M-145	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	Rate as per local competitive quotations
M-146	Sealant Primer	Kg	190
M-147	Quick setting compound	Kg	35
M-148	Random Rubble Stone(Including Loading Charges but excluding Seignorage Charges)	Cum	252
M-149	RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia	Metre	Rate as per PH items
M-150	RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre	
M-151	RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre	
M-152	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-156	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	Rate as per local competitive quotations
M-157	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre	
M-158	Rivets	Each	7
M-159	Sand bags (Cost of sand and Empty cement bag)	Per bag	Rate as per Item no.2 of miscellaneous items
M-160	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	Scrap tyres of size 900 x 20	No's	80
M-162	Seeds(Grass)	Kg	18
M-163	Cost of Selected earth (Excluding Seigniorage Charges)	Cum	Rate as per Item No. M-092
M-164	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations
M-165	Sheathing duct	Metre	
M-166	Shrubs	Each	15
M-167	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	Rate as per local competitive quotations
M-168	Sodium vapour lamp	Each	As per Building SSR
M-169	Square Rubble Coursed Stone(Including Loading Charges but excluding Seigniorage charges)	Cum	2236
M-170	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	Rate to be obtained from Electricity/Municipal Departments
M-171	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate
M-173	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	Steel pipe 25 mm external dia as per IS:1239	Metre	288
M-175	Steel pipe 50 mm external dia as per IS:1239	Metre	561
M-176	Steel wire rope 20 mm	Kg	185
M-177	Steel wire rope 40 mm	Kg	211
M-178	Strip seal expansion joint	Metre	Rate as per local competitive quotations

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-179	Structural Steel(HYSD/TMT bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-180	Super plasticizer admixture IS marked as per 9103-1999	Kg	Rate as per item no.70 of Material rates of WRD
M-181	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	Rate as per local competitive quotations
M-182	Through and bond stone (a) 20X20x30 to 45 cm long	Each	Rate as per item no.75 of Material rates of WRD.
	Through and bond stone (b) 25X25x45 to 60 cm long	Each	Rate as per item no.76 of Material rates of WRD.
	Through and bond stone (c) 30X30x65 to 75 cm long	Each	Rate as per item no.77 of Material rates of WRD.
M-183	Tie rods 20mm diameter	No's	54
M-184	Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185	Timber	Cum	
M-186	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations
M-187	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	
M-188	Un slaked lime	Tonne	2616
M-189(a)	Water charges(Urban)	KiloLitre	103
(b)	Water charges(Rural)	KiloLitre	77
M-190	Water based cement paint	Litre	As per Building SSR
M-191	Welded steel wire fabric	Kg	155
M-192	Wire mesh 50mm x 50mm size of 3mm wire	Kg	252
M-193	Wooden ballies 2" Dia for bracing	Each	As per Building SSR
M-194	Wooden ballies 8" Dia and 9 m long	Each	
M-195	Wooden packing	Cum	1265

Sl. No.	Description	Unit	S. Rate for 2016-17
1	2	3	4
M-196	Wooden staff for fastening of flag 25 mm dia, one m long	Each	75
Item 8.3	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	1.60
Item 8.8	Painting Two Coats on New Concrete Surfaces	Sqm	As per Building SSR
Item 8.9	Painting angle iron post Two Coats	Sqm	As per Building SSR
	Miscellaneous Items		
1	Benching old embankment slopes 0.45 X 0.45 M	RM	4.20
2	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges with 13.615 % overhead charges and contractors profits.	per bag	8.50
3	Rough stone for revetment 225mm thick (including Loading charges but excluding Seigniorage charges)	Cum	145
4	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	1.75
5	Thinner	Ltr	100
6	Gear Oil	Ltr	260
	New Item		
1	Cardium compound	kg	120

Conveyance Charges of Material

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2016-17
(COMMON TO ALL DEPARTMENTS).

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

1. For total lead up to 150 m (including initial lead) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for Preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative& includes previous km up to 5 kms
12. The lead & lift charges are inclusive of contractor's profit and overhead charges of 13.615%
13. During the BoCE meeting held on 24-05-2014, it is observed that in some of the estimates, Lead Charges are being added directly to the material basic rates for arriving the finished item rate. In view of that, the BoCE has instructed to see that while arriving the finished item rate, the lead charges are to be added to the material basic rates only after deducting the provision of "Contractor's Profit and Overhead charges"

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

Sl No.	Total distance (Total lead includes initial lead)	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs/Cum	Cement / Reinforce- ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab/ Late-rite / Wood Rs / cum
1	2	3	4	5
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	56.80	33.10	72.30
3	Total lead up to 150 m	113.60	66.30	144.60

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

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

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

**B.(LEAD) CONVEYANCE CHARGES FOR MACHINERY PER KILOMETER FOR
TRANSPORTING MATERIALS BY TIPPERS AND TRUCKS EXCLUDING LOADING,
UNLOADING AND IDLE HIRE CHARGES OF MACHINERY FOR THE YEAR: 2016-17
(No loading and unloading charges allowed for machinery loading and unloading)**

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 e stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks and tippers for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/to nne	(Lead) charges for trucks and tippers per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for trucks and tippers per cu.meter water/ 1000 litres	(Lead) charge s for trucks per 1000 nos. of bric ks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	31.50	30.40	19.00	44.70	18.70	50.70
2	Lead up to 2 km	44.10	42.50	26.60	62.60	26.20	70.90
3	Lead up to 3 km	58.80	58.80	36.70	86.50	35.00	94.50
4	Lead up to 4 km	71.40	71.40	44.60	105.00	42.50	114.80
5	Lead up to 5 km	84.00	84.00	52.50	123.50	50.00	135.10
6	for Every km beyond 5 km up to 30 km	12.60	12.60	7.90	18.50	7.50	20.30
7	for Every km beyond 30 km	10.50	10.50	6.60	15.40	6.30	16.90

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

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

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	17.30	37.80	62.40	74.80	52.00
2	Unloading	8.65	18.90	62.40	74.80	52.00

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

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

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	111.00	129.90	163.70	176.00	219.10
2	Unloading	40.00	64.95	163.70	176.00	219.10

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

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

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum
1	2	3	4
1	Loading	52.00	103.90
2	Unloading	15.90	15.90

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

F. LIFT CHARGES FOR MATERIALS BY HEAD LOAD

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

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

HIRE CHARGES

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

Sl. 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	758.40	872.70	283.90	1915.00
2	Air compressor 5 cmm (electric)	Hour	108.30	189.10	164.80	462.20
3	Air compressor 7 cmm (diesel)	Hour	241.30	714.00	210.90	1166.20
4	Air compressor 7 cmm (electric)	Hour	131.90	252.20	164.80	548.90
5	Air compressor 8.5 cmm (diesel)	Hour	275.60	892.50	210.90	1379.00
6	Air compressor 8.5 cmm (electric)	Hour	170.80	315.20	164.80	650.80
7	Air compressor 15 cmm (electric)	Hour	138.80	700.50	175.80	1015.10
8	Angle Dozer 90 hp	Hour	1715.50	610.50	236.60	2562.60
9	Batching plant 0.5 cum (6 Cum/hr)	Hour	114.60	84.10	340.60	539.30
10	Batching plant 2 x 1.00 cum (15 Cum/hr)	Hour	405.40	252.20	340.60	998.20
11	Batching plant 2 x 1.50 cum (50 Cum/hr)	Hour	620.70	308.20	340.60	1269.50
12	Bending machine 3000 x 12 mm	Hour	42.60	84.10	131.80	258.50
13	Clamp shell and hoisting ropes	Hour	5.40	0.00	0.00	5.40
14	Concrete bucket 1.5 cum	Hour	15.80	0.00	0.00	15.80
15	Concrete hand mixer 45 / 30 ltr	Hour	5.50	0.00	0.00	5.50
16	Concrete mixer 300 / 200 (diesel)	Hour	53.50	79.30	219.70	352.50
17	Concrete mixer 300 / 200 ltr (electric)	Hour	51.70	28.00	219.70	299.40
18	Concrete mixer 600 / 400 (diesel)	Hour	92.70	158.70	219.70	471.10
19	Concrete mixer 600 / 400 ltr (electric)	Hour	91.00	56.00	219.70	366.70
20	Concrete paver 100 sqm / hr	Hour	356.50	0.00	421.80	778.30
21	Convey mucker	Hour	822.80	195.00	175.80	1193.60
22	Core drilling machine	Hour	319.00	238.00	283.90	840.90
23	Diesel generating set 30 KVA	Hour	65.80	634.70	131.80	832.30
24	Diesel generating set 50 KVA	Hour	85.10	952.10	131.80	1169.00
25	Diesel Loco 45 hp	Hour	381.60	535.50	164.80	1081.90
26	Dewatering pump 5 hp (diesel)	Hour	10.20	79.30	111.10	200.60
27	Dewatering pump 5 hp (electric)	Hour	3.00	28.00	83.30	114.30

Machinery Hire Charges – Common SoR 2016-17

Sl. 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
28	Dewatering pump 10 hp (diesel)	Hour	15.20	158.70	111.10	285.00
29	Dewatering pump 10 hp (electric)	Hour	6.70	56.00	83.30	146.00
30	Dewatering pump 20 hp (diesel)	Hour	48.30	317.40	111.10	476.80
31	Dewatering pump 20 hp (electric)	Hour	12.30	112.10	83.30	207.70
32	Drifter	Hour	322.70	0.00	354.90	677.60
33	Drilling jumbo	Hour	368.40	42.80	175.80	587.00
34	Dumper 4.5 cum	Hour	580.70	399.90	227.10	1207.70
35	Geophysical Electric resistivity	Hour	99.00	0.00	0.00	99.00
36	Grouting pump	Hour	24.90	28.00	263.60	316.50
37	Guniting / sand blast equipment	Hour	110.10	0.00	219.70	329.80
38	Ice plant & accessories 30 t / day	Hour	170.20	798.60	131.80	1100.60
39	Jack hammer	Hour	19.80	0.00	329.60	349.40
40	Needle vibrator 40 mm (petrol)	Hour	7.60	18.80	158.20	184.60
41	Needle vibrator 40 mm (electric)	Hour	8.00	5.60	158.20	171.80
42	Needle vibrator 60 mm (petrol)	Hour	8.20	28.20	158.20	194.60
43	Needle vibrator 60 mm (electric)	Hour	9.70	8.40	158.20	176.30
44	Planing machine 4 m stroke	Hour	117.80	84.10	210.90	412.80
45	Plate shearing machine up to 12	Hour	41.90	112.10	142.00	296.00
46	Pneumatic placer 0.5 cum	Hour	171.10	0.00	86.80	257.90
47	Pneumatic tamper	Hour	20.70	0.00	263.60	284.30
48	Pug cutting machine	Hour	6.40	2.80	0.00	9.20
49	Pusher leg	Hour	12.70	0.00	0.00	12.70
50	Road roller diesel 10 t	Hour	197.20	714.00	210.90	1122.10
51	Shovel 0.50 cum 75 hp	Hour	1003.10	476.00	236.60	1715.70
52	Shovel 0.85 cum 110 hp	Hour	1706.60	872.70	236.60	2815.90
53	Stationery derrick crane	Hour	86.10	0.00	0.00	86.10
54	Tipper 5 cum	Hour	446.70	299.90	177.50	924.10
55	Tipping tub 1.5 cum	Hour	64.20	0.00	0.00	64.20
56	Tower crane 5 tonne	Hour	867.10	145.70	189.30	1202.10
57	Transformer 250 KVA	Hour	5041.00	0.00	0.00	5041.00
58	Truck 10 t	Hour	414.10	299.90	177.50	891.50
59	Truck mounted derrick crane 5 t	Hour	519.70	299.90	177.50	997.10
60	Upright drilling machine/grinder	Hour	22.50	28.00	198.90	249.40

Machinery Hire Charges – Common SoR 2016-17

Sl. 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
61	Ventilation fan 20 hp	Hour	11.50	112.10	28.70	152.30
62	Vibratory pad foot roller 8 t	Hour	1342.20	1031.40	263.60	2637.20
63	Wagon drill	Hour	188.50	0.00	283.90	472.40
64	Water tanker 8000 ltr	Hour	402.50	299.90	177.50	879.90
65	Welding set	Hour	16.00	67.20	0.00	83.20
66	Winch 35 hp (electric)	Hour	129.40	137.30	263.60	530.30
67	Tractor with 2T roller	Hour				345.00
68	Hydraulic Truck Crane 30T	Hour	3096.80	118.80	526.70	3742.30
69	Hydraulic Truck Crane 16T	Hour	2278.10	75.00	526.70	2879.80
70	Heavy Duty Airless Spray Painting	Hour	121.40			121.40
71	Concrete Placer Pump (25 cum/hr) (Electric)	Hour	1004.30	336.20	164.80	1505.30



Government of Andhra Pradesh

COMMON SCHEDULE OF RATES
FOR THE YEAR 2016-17
(Effective from 1st June, 2016)

R&B Department, AP

ROAD & BRIDGE WORKS

INDEX
PART-II
ROAD & BRIDGE WORKS

Sl. No.	Description	Page No.	
		From	To
1	Preamble	3	8
2	Labour Rates	9	13
3	Material & Work Item Rates	14	25
4	Hire Charges of Plant & Machinery for Road & Bridge Works	26	29

PREAMBLE

1.0 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 Andhra Pradesh except Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation (Upto a belt of 12 kms from Municipal corporation limits) and other Municipal Corporations as notified by the Government from time to time.
(ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation limits (Upto a belt of 12 kms from Municipal corporation limits)
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms. from Municipal limits)
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapileswara Swamy Temple, Kapilatheertham, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram, 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the works 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% Extra over basic rates on labour component works allowed for works situated within 10 Kms belt of Industrial area of Ibrahimpatnam, Vuyyuru, Jaggaiahpet in Krishna District, Macherla, Gurajala, Challapalli in Guntur District, Garividi in Vijayanagaram District, Renigunta in Chittoor District, Yerraguntla & Mangampet in Kadapa District, Hindupur,

Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District, Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District and Anakapally of Vishakhapatnam District.

D) AGENCY / TRIBAL AREAS:

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

NOTE:

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

E) GHAT ROADS:

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

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

Note for 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/ 10 Sq.m

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

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

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

A. TRIAL TRENCHES:

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

B. TRIAL PITS:

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

II) EXCAVATION IN RESTRICTED PLACES:-

- I) Foundation of Buildings 75% extra
- II) For pipe lines where the depth is less 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 of the cost.

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

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

5.0 Revetment and apron works:

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

6.0 Deep cuts:

Deep cuts are defined as reaches of canal where excavation in all soils is for a depth of excavation 6m and more. The following increase over normal rates is permitted in deep cuts on a graded basis.

- I) Up to 6 m excavation: The S. S. R. of corresponding classification of earth work excavation is applicable.
- II) Beyond 6 m and up to 9 m excavation - 9% extra
- III) Beyond 9 m and up to 12 m excavation - 12% extra
- IV) Beyond 12 m and up to 16 m excavation - 15% extra

V)	Beyond 16 m and up to 30 m excavation	-	20% extra
VI)	Beyond 30 m excavation	-	40% extra

NOTE : 1) The extra percentage is only on basic rate. 2) The above percentage are not applicable for **“LEADS & LIFTS”**. 3) The above extra percentages are to be allowed only on items excluding the blasting component which may be taken as 1/3 of the rate.

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

Packed	---	Rs. 1.75per Km/ MT
Bulk	---	Rs. 1.65 per Km/ MT (round the trip)

8.0 SEIGNIORAGE CHARGES:

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.100 (Industries and commerce department) Dt. 31.10.2015 may be added in the data of rates in the estimate. The Provision towards Contractor's Profit and Overhead charges **should not be operated** on the Seigniorage Charges while adding Seigniorage Charges to the data in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

9.0 Earthwork excavation rate for Trench cutting, formation of embankment & shoulders, foundations, removal of unserviceable soil etc., is to be arrived based on the Machinery adopted in the MoRTH Standard data book for excavation of soil.

LABOUR RATES

Si. No	S.S. Item No.	Description	Unit (Per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
		(A) SKILLED WORKMEN			
		First Class			
1	a	Mason and stone cutter	Day	445	As per WR Dept. (S.No.39)
2	b	Brick Layer	Day	445	As per WR Dept. (S.No.11)
3	c	Carpenter	Day	475	As per WR Dept. (S.No.4)
4	d	Painter	Day	510	As per WR Dept. (S.No.35)
5	e	Plumber	Day	510	As per WR Dept. (S.No.36)
6	f	Welder	Day	445	As per WR Dept. (S.No.41)
7	g	Fitter	Day	475	As per WR Dept. (S.No.6)
8	h	Electrician	Day	515	As per WR Dept. (S.No.5)
9	1	Cook	Day	420	As per WR Dept. (S.No.2) Other Category
10	2	Mechanic	Day	475	As per WR Dept. (S.No.12)
11	3	Rigger	Day	450	
12	4	Rigger Syrang	Day	450	
13	5	Well Sinker	Day	450	
14	6	Blaster	Day	510	As per WR Dept. (S.No.3)
15	3	Bar bender	Day	555	As per WR Dept. (S.No.1)
16	7	Tipper and Heavy Vehicle Driver above 12 T	Day	510	As per WR Dept. (S.No.15)
17		Tanker and medium Vehicle driver (7.5 T to 12 T)	Day	450	
18		Tanker and Light Vehicle driver up to 7.5 T	Day	340	
19		Wagon Drill Operator upto 7.5 T	Day	445	
20	8	Lorry and Heavy Vehicle Driver above 12 T	Day	480	
21		Road Roller Driver (7.5 T to 12 T)	Day	445	As per WR Dept. (S.No.27)
22		Road Roller Driver 7.5 T	Day	Deleted	
23	9	Tractor Driver above 12 T	Day	Deleted	
24		Tractor Driver (7.5 T to 12 T)	Day	Deleted	
25		Tractor Driver 7.5 T	Day	350	
		<u>Operator</u>			
26	10	Pan Mixer	Day	445	
27		Concrete Mixer	Day	445	As per WR Dept. (S.No.16)

Si. No	S.S. Item No.	Description	Unit (Per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
28		Vibrator	Day	445	As per WR Dept. (S.No.32)
29		Composer	Day	460	
30		Jack Hammer	Day	445	As per WR Dept. (S.No.23)
31		Driller	Day	510	As per WR Dept. (S.No.34)
32		Boring Maistry	Day	445	
33	11	Pump operator	Day	445	As per WR Dept. (S.No.24)
34	12	Turner Grade-I	Day	445	
35	13	Wireless Operator	Day	510	As per WR Dept. (S.No.12) Other Category
36	14	Assistant Wireless Operator	Day	410	
37	15	Jeep Driver	Day	505	As per WR Dept. (S.No.15) Other Category
38	16	Work Inspector with I.T.I qualification	Day	520	As per WR Dept. (S.No.9) Other Category
39	17	Work Inspector with LCE, LME,L.E.E qualification	Day	645	As per WR Dept. (S.No.4) Other Category
40	18	Work Inspector with B.E (Civil, Mechanical and Electrical) qualification	Day	860	As per WR Dept. (S.No.7) Other Category
41	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	450	As per WR Dept. (S.No.10)
42	20	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	445	
43	21 a(i)	Typist / Job Typist	Day	510	As per WR Dept. (S.No.13) Other Category
	a (ii)	Computer operator	Day	560	As per WR Dept. (S.No.11) Other Category
	b	CAD Operator with Diploma in Engineering /General degree with CAD certificate	Day	690	As per WR Dept. (S.No.14) Other Category
		(B) SEMI –SKILLED WORKMEN			
		SECOND CLASS			
44	a	Mason	Day	400	As per WR Dept. (S.No.35) Semi-Skilled
45	b	Brick Layer and Stone Cutter	Day	400	As per WR Dept. (S.No.35) Semi-Skilled
46	c	Carpenter	Day	400	As per WR Dept. (S.No.4) Semi-Skilled
47	d	Painter	Day	400	As per WR Dept. (S.No.37) Semi-Skilled

Sl.no	S.S. Item No.	Description	Unit (Per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
48	e	deleted			
49	f	Blacksmith	Day	445	(Skilled)
50	g	Welder	Day	400	
51	h	Fitter	Day	400	
52	i	Electrician	Day	400	
53	2	Caulker	Day	400	
54	4	Tinker	Day	400	
55	5	Sawyer	Day	400	
56	6	Brick-Moulder	Day	400	
57	7	Pot-tile turner	Day	400	
58	8	Pan-tile turner	Day	400	
59	9	Brick and Lime Kiln man/Glazier	Day	400	
60	10	Telephone Operator	Day	510	As per WR Dept. (S.No.12) Other Category
61	11	Hand Driller	Day	400	
62	12	Quarry Man	Day	400	
63	13	Hammer Man	Day	400	As per WR Dept. (S.No.40) Semi-skilled
64	14	Thatcher	Day	400	
65	15	Fireman	Day	400	
66	16	Cleaner/Helper	Day	400	
67	17	Stone Packer	Day	400	
68	18	Jawali	Day	400	
69	19	Ex-Service man/Goorkha watchman	Day	400	
70	20	Ratton Worker	Day	400	
71	21	Mate	Day	400	
72	1	Head Mazdoor (Mukaddar)	Day	400	As per WR Dept. (S.No.10) Semi-Skilled

(C) UNSKILLED WORKMEN

73	2	Man Mazdoor	Day	350	As per WR Dept. (S.No.3) Un-Skilled
74	3	Watch Man	Day	350	As per WR Dept. (S.No.5) Un-Skilled
75	5	Woman Mazdoor	Day	350	As per WR Dept. (S.No.4) Un-Skilled
76	6 (b)	Helper/Cleaners/Sweepers/Scavangers/Choukidars/Security Guards/Office Boys	Day	350	
77	Note : Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double the above wages.				

	(D) OTHER CONVEYANCE ITEMS			S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
78	1	Single bullock with driver and cart	Day	435	As per WR Dept. (S.No.6) Semi-Skilled
79	2	Bullock pair with driver	Day	450	
80	3	Bullock pair with driver and cart	Day	460	As per WR Dept. (S.No.5) Semi Skilled
81	4	Bullock pair with driver and cart with pneumatic tyres	Day	500	
82	5	Bullock pair driver and kapila	Day	Deleted	
83	6	Nava with crew	Day	415	As per WR Dept. (S.No.3) Semi Skilled
84	7	Punt thundal	Day	330	
85	8	Punt lascar	Day	330	
	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 the concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation only.			

MATERIAL & WORK ITEM RATES

RATES OF MATERIALS & WORK ITEMS

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
		(A) STONE AND ROAD MATERIALS			
		ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING.			
1	22.a	For R.R Masonry Work (other than Granite, Dolomite and Trap)	1 cum	180	
2	b.i	For SS Revetment work 225 mm	1 cum	145	As per WR Dept. (S.No.3) of Miscellaneous items - Material other than covered under irrigation
3	b.ii	For SS Revetment work 300 mm	1 cum	164	As per WR Dept. (M 003 of Material) Material other than covered under irrigation items
4	b.iii	For SS Revetment work 450 mm	1 cum	156	
5	c	Jeddy Stone above 450 mm to 600 mm	1 cum	206	
6	d i	Laterite for revetment 225 mm	1 cum	136	
7	d ii	Laterite for revetment 300 mm	1 cum	159	
8	d iii	Granite for SS revetment 225 mm	1 cum	177	
9	d iv	Granite for SS revetment 300 mm	1 cum	172	
		Note:- Only when other granite is not available			
10	e	Laterite for masonry	1 cum	156	
11	f	Cyclopean stones above 0.2 cum	1 cum	292	
12	g	For R.R.Masonry works (granite, dolomite and trap variety)	1 cum	252	As per WR Dept. (M 148 of Material) Material other than covered under irrigation items
13		NOTE:- For items 22(a) to 22© and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	70	
		COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS			
14	23.a	Granite, Dolomite and trap	1 cum	288	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
15	23.b	For other varieties	1 cum	207	
16	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1901	
17		NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	82	
18	28.a	Bond stones (600 x 200 x 200 mm)	Each	50	
19	b	Chainage stones and Centre line stones (750x150x150 mm)	Each	50	
20	31	Demarcation Stones (900 x 150 x 150 mm)	Each	90	
21	32.a	Guard Stones (1200 x 200 x 200 mm)	Each	152	
22	B	Guide Stones (800 x 150 x150 mm)	Each	102	
23	C	Carving letters and figures in stone up to 100 mm size	Each	10	
24	D	Carving letters and figures in stone above 100 mm size	Each	11	
		HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING			
25	33.a	- do - 6mm size (SS 5)	1 cum	532	As per WR Dept. (M 050 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)
26	b	- do - 10mm size (SS 5)	1 cum	692	As per WR Dept. (M 051 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
27	c	- do - 12mm size (SS 5)	1 cum	822	As per WR Dept. (M 052 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)
28	d	- do - 20mm size (SS 5)	1 cum	1036	As per WR Dept. (M 053 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)
29	e	- do - 25mm size (SS 5)	1 cum	994	As per WR Dept. (M 054 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)
30	f	- do - 40mm size (SS 5)	1 cum	620	As per WR Dept. (M 055 of Material) (excluding blasting charges of Rs.70/- and Machine crushing charges of 25%)
31	g	- do - 50mm size (SS 5)	1 cum	456	
32	h	- do - 60mm size (SS 5)	1 cum	419	
33	i	- do - 65mm size (SS 5)	1 cum	379	
34	j	- do - 75mm size (SS 5)	1 cum	304	
35	k	- do - 75 to 100mm size (SS 5)	1 cum	248	
36		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting	1 cum	70	
37		(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
38		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.	1 cum	9.9	
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.	1 cum	17	
			1 cum	9.9	
		SOFT BROKEN STONE SCREENED AND FREE FROM DUST			
40	33.l	- do - 40 mm size (SS 5)	1 Cum	123	
41	33.m	- do - 50 mm size (SS 5)	1 Cum	111	
42	33.n	- do - 60 mm size (SS 5)	1 Cum	87	
43	33.o	- do - 65 mm size (SS 5)	1 Cum	78	
44	33.p	- do - 75 mm size (SS 5)	1 Cum	73	
		HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)			
45	33a	-do- 2.36 to 5 mm size (IRC&MORTH)	1 cum	308	
46	b	-do- 5 to 7mm size (IRC&MORTH)	1 cum	504	
47	c	-do- 9.5 to 11.2mm size (IRC&MORTH)	1 cum	656	
48	d	-do- 12mm to 14 mm size (IRC and MORTH)	1 cum	780	
49	e	-do- 19 mm to 22 mm size (IRC and MORTH)	1 cum	984	
50	f	-do- 25 mm to 27 mm size (IRC and MORTH)	1 cum	944	
51	g	-do- 40 mm to 45 mm size (IRC and MORTH)	1 cum	588	
52	h	-do- 50 mm to 55 mm size (IRC and MORTH)	1 cum	456	
53	i	-do- 60 mm to 63 mm size (IRC and MORTH)	1 cum	419	
54	j	-do- 65 mm size (IRC and MORTH)	1 cum	379	
55	k	-do- 75 mm size (IRC and MORTH)	1 cum	304	
56	l	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70	As proposed by WR Dept.

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
57	2	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	As proposed by WR Dept.
58	3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.9	
59	4	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	17 9.9	
		HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST			
60	33.q	- do - 10 mm size (SS 5)	1 Cum	386	
61		-do- 9.5 mm to 11.2 mm size (IRC and MORTH)	1 Cum	386	
62	r	- do - 12 mm size (SS 5)	1 Cum	362	
63		-do- 12mm to 14 mm size (IRC and MORTH)	1 Cum	362	
64	S	- do - 20 mm size (SS 5)	1 Cum	293	
65		-do- 19 mm to 22 mm size (IRC and MORTH)	1 Cum	293	
66	T	- do - 25 mm size (SS 5)	1 Cum	287	
67	U	- do - 40 mm size (SS 5)	1 Cum	170	
68		-do- 40 mm to 45 mm size (IRC and MORTH)	1 Cum	170	
69	V	- do - 50 mm size (SS 5)	1 Cum	150	
70		-do- 50 mm to 55 mm size (IRC and MORTH)	1 Cum	150	
71	33.w	- do - 65 mm size (SS 5)	1 Cum	142	
72		-do- 60 mm to 65 mm size (IRC and MORTH)	1 Cum	142	
73	X	- do - 75 mm size (SS 5)	1 Cum	117	
74		- do - 75 mm size (IRC &MORTH)	1 Cum	117	
75	Y	- do - 75 to 100 mm size (SS 5)	1 Cum	92	
76		- do - 75 to 100 mm (IRC& MORTH)	1 Cum	92	
		OTHER ITEMS			
77	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	101	
78	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	75	
79	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	95	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
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	As proposed by WR Dept.
81	z4	Soling stone of 150 mm size other than granite variety	1 Cum	76	
82	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	47	
83	z6	Field picked metal unbroken 20 mm size	1 Cum	61	
84	z7	- do - 25 mm size	1 Cum	46	
85	z8	- do - 40 mm size	1 Cum	53	
86	z9	- do - 50 mm size	1 Cum	46	
87	z10	- do - 60 mm size	1 Cum	40	
88	z11	- do - 80 mm size	1 Cum	35	
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	
90	34	Gravel	1 Cum	103	As per WR Dept. (M 008 of Material)
91	35 a	Quarry rubbish	1 Cum	89	
92	B	HBG Stone Chips 2.36mm and below	1 Cum	350	As per WR Dept. (Sl.No.67 of Material)
93	36.a	Fine aggregate / Sand (un-screened) for Concrete & Filtering items) (excluding Seigniorage charges)	1 Cum	95	As per WR Dept. (Si. No. 27 of Material)
94	b.	Fine aggregate / Sand (unscreened) for filling (excluding Seigniorage charges)	1 cum	95	
95	c	Fine aggregate / Sand (screened) for Mortar, Plastering items and Sand blasting items (excluding Seigniorage charges) (Rs. 70/- is added towards screening charges)	1 Cum	165	As per WR Dept. (Si. No. 28 of Material)
96	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	38	
		(C) LIME AND CEMENT			
97	40 to 41(c)			As per local prevailing rates based on competitive rates	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
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	C	Grinding lime mortar or Surkhi mortar	1 Cum	100	
100	D	Shell lime slaked and screened	1 Cum	987	
101	E	White cement	1 Kg.	36	
102		(D) MORTARS			
103	43 to 45	Items 43 to 45			
		(E) METAL AND IRON WORKS			
104		Mild steel rods 6mm dia.	1 MT	Monthly rates communicated by Govt	
105		Mild steel flats	1 MT		
106		Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	1 MT		
107		High Yield Strength Deformed Bars/TMT bars	1 MT		
108		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.			
		III RATES OF WORKS			
		(A) CLEARING SITE			
109	1.a	Clearing heavy Jungle	1 Sqm	3.20	
110	b	Clearing light Jungle	1 Sqm	2.80	
111	c	Clearing Scrub Jungle	1 Sqm	2.80	
112	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	4.40	
113	2.a.1	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	21	
114	a.2	- do - 100 to 200 cm.	Each	48	
115	2.b.1	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	51	
116	b.2	- do - 100 to 200 cm.	Each	53	
117	2.c.1	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	26	
118	c.2	- do - 100 to 200 cm	Each	39	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
119	2.d.1	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	26	
120	d.2	- do - 100 to 200 cm	Each	33	
121	2.e 1	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	33	
122	e.2	- do - 100 to 200 cm	Each	51	
123	e.3	- do - above 200 cm	Each	83	
124	2.f.1	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	26	
125	f.2	- do - 100 to 200 cm	Each	36	
126	f.3	- do - above 200 cm	Each	45	
127	3.a	Uprooting and clearing prickly pear jungle	1 Sqm	2.50	
128	b	- do - under 2.5 meters height including burning and burrying as directed.	1 Sqm	3.30	
129	c	- do - over 2.5 meters height including burning and burrying with an initital lead of conveyance	1 Sqm	3.90	
130	4.a	Removing of natchu, goobi, thooti etc., from drains, channels including clearance if not more than 1 metre depth of water with an initial lead of 10 metres and lift of 2 metres.	1 Sqm	2.10	
131	b.i	Clearing alchi, tilla	1 Sq.m	4.20	
132	b.ii	Removal of Jammu	1 Sq.m	3.60	
133	c.i	Removal of imponea, cornea	1 Sq.m	4.00	
134	c.ii	Removal of water hyacinth upto 30 cm thick.	1 Sqm	4.10	
135	c.iii	- do - more than 30 cm thick	1 Sq.m	5.50	
136	d	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sqm	1.50	
		(B) DISMANTLING			
	5	DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.			
137	a.i	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	65.60	
	7	Drilling holes in hard granite or sheet rock			
	a)	Manually (Hand)			
138	i)	20 mm dia meter	1 RM	136	
139	ii)	25 mm dia meter	1 RM	144	
140	iii)	36 mm dia meter	1 RM	166	
141	b)	Pneumatic Compressor			
142	i)	20 mm dia meter	1 RM	154	
143	ii)	25 mm dia meter	1 RM	167	
144	iii)	36 mm dia meter	1 RM	182	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
	8	Grouting the holes with neat cement slurry excluding cost of steel			
145	i)	20 mm dia meter	1 RM	97	
146	ii)	25 mm dia meter	1 RM	122	
147	iii)	36 mm dia meter	1 RM	152	
		White Washing and Painting works			
148	A	White washing and colour banding for guard and guide stones including cost of materials	Each	10	
149	B 1	Screening sand and gravel	1 cum	10.50	
150	B 2	Screening chips and metal	1 cum	17.60	
151	C	Removing and refixing Hectometre or Demarcation stones	Each	12.65	
		(S) ROAD WORK ITEMS			
		PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGE BUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OF GRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER (1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE			
		(For a compact thickness)			
	1 (i)	HARD METAL			
152	A	40 mm thickness	10 sqm	70	
153	B	50 mm thickness	10 sqm	74	
154	C	75 mm thickness	10 sqm	80.30	
155	D	100 mm thickness	10 sqm	87	
156	1 (ii)	(For compact thickness of soft metal)			
157	A	50 mm thickness	10 sqm	53.80	

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
158	B	75 mm thickness	10 sqm	63.90	
159	C	100 mm thickness	10 sqm	70.10	
	5	Picking old metallated surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage and power roller rolling including hire charges of power roller(8 to 10 T) barricading and diversion of traffic and wetting the new consolidation for a fortnight(for compacted thickness of)			
		HARD METAL			
160	5 (a)	40 mm thick ness	10 sqm	185	
161	(b)	50 mm thick ness	10 sqm	210	
162	(c)	75 mm thick ness	10 sqm	231	
163	(d)	100 mm thick ness	10 sqm	248.80	
164	(e)	150 mm thick excluding hire charges	10 sqm	445.40	
165		Gelatin(For MORTH data, for works of state & national high ways only)	Per Kg	73	As per WR Dept. (M 104 of Material) other than covered under irrigation
166		Electric Detonators(For MORTH data, for works of state & national high ways only)	Each	11	As per WR Dept. (Si. No. 21 of Materials of WR Dept.)
167		Hot applied thermoplastic compound(For MORTH data, for works of State & National high ways only)	Per litre	Rate as per local competitive quotations	As per WR Dept. (M 118 of Material other than covered under Irrigation Items)
168		Reflectionising glass beads of 2 mm thick(For MORTH data, for works of State & National high ways only)	Per Kg		deleted
169		Road marking paint confirming to IS 164(For MORTH data, for works of State & National high ways only)	Per Kg	196	
170	n	Labour charges for laying filters with coarse aggregate.	1 cum	55.30	
171	o	Labour charges for laying filter with sand.	1 cum	30.70	
172		Fly Ash	1 cum		deleted
173		Binding Wire	1 Kg	60	As per WR Dept. (M 072 of Material) other

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2016-17 in Rs.	Remarks
1	2	3	4	5	6
					than covered under irrigation items
174		Jute rope	Mtr	8.75	
175		De bonding strips	Mtr	11.00	
176		Selent	Ltr	69.50	
177		Poly sheet 125 microns	1 sqm	18.00	
178		Rural water rate	1 kl	77.00	

HIRE CHARGES OF PLANT AND MACHINERY

**HIRE CHARGES OF PLANT& MACHNIERY FOR
ROAD & BRIDGE WORKS FOR THE YEAR 2016-17**

Sl. No.	Description		Unit	S o Rate for 2016-17 in Rs.	Remarks
	Machine	Activity			
1	2	3	4	5	6
1	Dozer(D 80)	Spreading	Per Hour	2562.60	As per WR Dept. (S.No.8)
		Cutting			
		Cleaning			
2	Dozer (D50)	Spreading Cutting Cleaning	Per hour	1649	
3	Mortor Grader	Clearing	Per Hour	3220	
		Spreading			
		GSB			
		WMM			
4	Hydraulic Excavator	Soil Ordinary	Per Hour	2815.90	As per WR Dept. (S.No.52)
		Soil Marshy			
		Soil unsuitable			
5	Front end loader	Soil loading	Per Hour	1650	
		Aggregate loading	Per Hour		
6	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	924.10	As per WR Dept. (S.No.54)
7	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2637.20	As per WR Dept. (S.No.62)
		WMM			
8	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1122.10	As per WR dept. (S.No.50)
9	Water tanker 8 Kilolitre	Water transport	Per Hour	879.90	As per WR Dept. (S.No.64)
10	Water tanker 6 Kilolitre	Water transport	Per Hour	630	
11	Tractor	Pulling	Per Hour	415	
12	Tractor with rotavator	GSB mixing @ site	Per Hour	425	
13	Tractor with ripper attachment	Scarifying	Per Hour	425	
14	Air Compressor 5 cmm(electric)	General purpose	Per Hour	462.20	As per WR Dept. (S.No.2)
15	Wet mix plant 60 TPH	Wet mix	Per Hour	1650	
16	Mechanical broom Hydraulic	Surface cleaning	Per Hour	375	
17	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1500	
18	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	860	
19	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC	Per Hour	28200	
		/Premix			

Sl. No.	Description		Unit	S o Rate for 2016-17 in Rs.	Remarks
	Machine	Activity			
1	2	3	4	5	6
20	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC /Premix	Per Hour	24200	
21	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	21700	
22	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	19200	
23	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3060	
24	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2250	
25	Hydraulic Chip Spreader	Surface dressing	Per Hour	2695	
26	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1650	
27	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1347	
28	Pot-Hole repair machine	Repair of pot-holes	Per Hour	887	
29	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	219	
30	GSB Plant 50 Cum	Producing GSB	Per Hour	1257	
31	Mastic Cooker	Mastic wearing coat	Per Hour	78	
32	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1231.90	
	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	998.20	As per WR Dept. (S.No.10)
33	Transit mixer	Transportation of concrete mix	Per Hour	1915.00	As per WR Dept. (S.No.1)
34	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	1505.30	As per WR Dept. (S.No.71)
35	Cranes				
	(a) 80 tonnes	Lifting purpose	Per Hour	1288	
	(b) 35 tonnes			870	
	(c) 3 tonnes			422	
	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2268	
	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	3709	
36	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	15.80	As per WR Dept. (S.No.14)
37	Kerb casting machine	Kerb making	Per Hour	660	
38	Concrete mixer	Concrete mixing	Per Hour	471.10	As per WR Dept. (S.No.18)
	(a)0.28 cum				
	(b) 1.0 cum	Concrete mixing	Per Hour	620	

Sl. No.	Description		Unit	S o Rate for 2016-17 in Rs.	Remarks
	Machine	Activity			
1	2	3	4	5	6
39	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	6023	
40	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	3190	
41	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	9583	
		Crushing of spalls 200 TPH	Per Hour	20206	
42	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	155	
43	Generator				
	250 KVA	Generation of electric energy	per hour	1850	
	125 KVA		per hour	1320	
	100 KVA		per hour	1126	
	30 KVA		per hour	832.30	As per WR Dept. (S.No.23)
44	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	5600	
45	Truck 5.5 cum per 10 tonnes	Material transport	Per her	891.50	As per WR Dept. (S.No.58)
46	Road marking Machine	Road marking	Per Hour	133	
47	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1239	
48	Plate compacter	For compacting in medians	Per Hour	58	
49	Drilling equipment	For drilling	Per Hour	840.90	As per WR Dept. (S.No.22)
Note: The above hire charges of Machinery & Plant includes crew, oils, conveyance of Machinery to site and all other incidental charges					

PART-IV
PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulkar	Per Day	As per Labour rates of SoR
	2. Plumber 1st Class	Per Day	
	3. Plumber 2nd Class	Per Day	
	4. Sewer Cleaner	Per Day	
	5. Well Sinker	Per Day	
	6. Pipe line Fitter 1st Class	Per Day	
	7. Pipe line Fitter 2nd Class	Per Day	
	8. Pump Operator	Per Day	
	9. Bore Mechanic	Per Day	
	10. Light Vehicle Driver	Per Day	
	Note:The rate at relevant item in common SoR is applicable for occasional employment.		
2	RATES FOR EARTH WORK :		
a.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.		To follow the relevant items of Irrigation work items as per AP.Standard data
b.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.		
c.	Earth work excavation in all types soils for open trenches, for valve pits, inspection chambers, etc.		
3. a.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is more than 1.5 times the width, in places where there is no habitation.		
b.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is less than 1.5 times the width, in places where there is no habitation.		
c.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is 1.5 times or more than the width.		
d.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is less than 1.5 times the width.		
e.	Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.		
f.	For controlled blasting at restricted places		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	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 AP.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 AP.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 AP.Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	P.V.C. Pipes and fittings	Per Tonne	
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		To follow as per AP.Standard data
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	
b.	A.C. Pipes & Specials	Per Tonne	
	Note:- For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hammalae charges if prevailing.		
8. a.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)		To follow as per AP.Standard data
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Per Metre	
8. b.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994)		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	DIAMETER OF PIPE/Fittings in mm :		To follow as per AP.Standard data
	80mm to 750mm dia		
	800	Per Meter	567
	900	Per Meter	737
	1000	Per Meter	958
	1100	Per Meter	1180
	1200	Per Meter	1403
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 :		To follow as per AP. Standard data
	80mm to 800mm		
	900	Each Joint	16304
	1000	Each Joint	18215
	1100	Each Joint	20123
	1200	Each Joint	22033
10	Jointing CI 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 :		To follow as per AP.Standard data
	80mm to 750mm dia	Each Joint	
	800	Each Joint	6836
	900	Each Joint	8040
	1000	Each Joint	9259
	1100	Each Joint	10508
	1200	Each Joint	11802
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 Meters excluding cost of rubber rings as per BIS No.783/85.		
	per every 25 mm dia.	Per Meter	21.40
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 with a water lead upto 500 meters including cost of rubber rings as per BIS No. 783/1985		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	per every 25 mm dia.	Per Meter	To follow as per AP.Standard data
	80mm to 600mm		
	700		
	800		
	900		
	1000		592
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		
b	Laying, jointing of PVC/HDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes including trench excavation and refiling.		
	DIA in mm		
	50	Per Meter	33
	40	Per Meter	33
	32	Per Meter	33
	25	Per Meter	30
	20	Per Meter	28
	NOTE :- (i) The above rates are applicable for the works in District only.		
	(ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.		
15	Laying and jointing of HDPE pipes 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.		To follow as per AP.Standard data
	Outer Dia of pipes in MM		
	63 to 355 mm dia		
	400		
	450		
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.		
	25	Each	To follow as per AP.Standard data
	40	Each	
	50	Each	
	65	Each	
	80	Each	
	100	Each	
	125	Each	
	150	Each	

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
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.		
	25	Each	167
	40	Each	189
	50(Double Air valves)	Each	201
	65	Each	215
	80	Each	235
	100	Each	274
	125	Each	428
	150	Each	469
22	Cutting C.I./ DI Pipes without water in mains.Dia of pipes in mm.		
	Dia of Pipes in mm		
	80mm to 600mm	Each cut	To follow as per AP.Standard data
	680	Each cut	520
	700	Each cut	534
	750	Each cut	575
	800	Each cut	612
	900	Each cut	687
	1000	Each cut	764
	1100	Each cut	842
	1200	Each cut	918
23	Cutting A.C. Pipes without water in mains.Dia of pipes in mm.	Each cut	
	Dia of Pipes in mm		
	80	Each cut	34
	100	Each cut	34
	125	Each cut	34
	150	Each cut	34
	200	Each cut	35
	250	Each cut	58
	300	Each cut	58
	350	Each cut	72
	400	Each cut	79
	450	Each cut	98
	500	Each cut	109
	600	Each cut	120
25	Cutting road surface including stacking of excavated materials for pipe line trench work.		
	a) Cutting open B.T. road surface (as well as asphalt concrete upto 75 mm thick) including water bound macadam	10 Sqm	656
	b) Cutting open C.C. road surface	1 Cum	1822

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	c) Cutting open water bound macadam road including soiling	1 Cum	224
26	Bailing out water.(For PH item)		
	a) Bailing out water from the pipe line trenches with oil engine driven pumpsets, including hire charges, fuel charges and wages for Driver and Helper.	HP/Hour	53
	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	39
	NOTE:- The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.		
29	Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work.		
	a) 0 to 1 m deep under water.	10 Cum	11671
	b) 1 to 2 m deep under water.	10 Cum	16717
	c) 2 to 5 m deep under water.	10 Cum	25092
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	4794
	NOTE:- The above rates do not include rock requiring blasting or chiseling		
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 Meter	36
	per every 25 mm dia.		
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 Meter below L W L.	One Sqm of Centering area	
	1) Slabs for thickness (150 mm to 300 mm)		3488
	2) Slabs for thickness above (300 mm)		6974
	3) Side walls curved surfaces.		2635
	4) Side wall straight surfaces.		2345
	5) Dome.		2857
	6) Roof Slab.		1758
	7) Column braces and beams		1176
	8) Circular braces, ring beams & circular column.		1290
	Note:- For RCC ELSR of staging above 15 m, the % increse in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m --- 21% 24 m -27m --27% above27m --- 30%		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
b)	For Ground level works :-		
	1) Slabs	1 Sqm	To follow as per AP.Standard data
	2) Beams & Lintels	1 Cum	
	3) Sun shades	1 Sqm	
	4) RCC vertical walls of plane surface	1 Sqm of centering area	876
	5) RCC vertical walls of circular faces	1 Sqm of centering area	1115
	NOTE: Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m. The above centering charges are applicable for water retaining structures only.		
32	Lift or delift of materials :		
	a) Lifting of cement concrete for RCC elevated reservoir. For every 1m height or part thereof over the initial lift of 3 m	1 Cum	143
	b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of masonry ground level reservoirs, 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 3 meters from ground level.	1 Cum	44
39	Extra allowance for isolated scattered works viz., valve pits / chambers, public fountains, meter pits and manholes, delivery cistern etc., complete.	Each	30% extra over the cost of chamber.
(a)	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.		100% extra over the cost of work
40	Removal of wet silt and sludge from sullage drains with aid of baskets and vessels.	10 Cum	2071
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.		
a	500 Kilo litres	Per litre	15.9
b	1000 Kilo litres	Per litre	13.2
c	1500 Kilo litres	Per litre	11.9
d	2000 Kilo litres	Per litre	11.1
e	2500 Kilo litres	Per litre	10.4
	1) The above rates are arrived with base rate of Cement Rs.5000/- per MT & Steel for Rs36000/- per MT for the month of April 2016		
	2) All concrete components shall be designed with M30 Design Mix proportion.		
	3) For intermediate capacities proportional rates shall be adopted.		
	4) The foundations shall be designed for Annular Raft Footings. The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for SBC of 15 T/Sqm.		
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by 2.50% on basic rate .		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by 1.0% on basic rate.		
	c) For SBC below 10T/sqm , solid raft shall be provided and for solid raft the rate shall be increased by 10% on basic rate.		
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paise on basic rate per litre per every Meter 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 Meter additional staging.		
	7) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc-5000) x (0.07/5000)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-36000) x (0.02/36000) Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.		
	9) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.		
	10) The above rates are adopted for preparation of estimate for construction of ELSRs/OHSRs for finished work including 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, Pipes,Pipe specials, valves of DI material, Valve chambers etc., for pipe connections including cost of pipes,specials and valves as per departmental designs and drawings.		
	11) The above rates adopted for a wind pressure upto "350 kg/sq m". For every 100 kg/sqm decrease in wind pressure, the rate shall be decreased by 5%		
	12) For tribal/Agency / Rural area, the above rates as arrived upto shall be increased by 10%.		
	13.The Basic rate is adopted by considering the design for Seismic forces for Zone-I & II only of seismic zones.		
	(a) The basic rates shall be increased by 33 1/3 % for Zone-III of seismic zones.		
	14. The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities above 500 KL & upto 1000KL.		
	15. The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.		
	16) The basic rate is inclusive of following Fixtures		
	i) Pipe connections & Specials with D.I materials		
	(a) All pipe conections for Inlet, Out let, Over Flow, Scour pipes shall be provided with D/F DI material. (b) The Valves for above pipe connections also shall be of DI material of PN 16 conforming to the specification of SoR item No.28 (c) All specials such as Bends,Tees, Reducers, Duckfoot Bends,Bell mouths etc., shall be of DI material.		
	II) The sizes of the verticals for ELSR/OHSR shall be:		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	a) For 500 KL to 750 Kl ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia Over Flow pipe - 350m dia Scour Pipe - 200mm dia		
	b) For 800 KL to 1500 Kl ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia Over Flow pipe - 450m dia Scour Pipe - 200mm dia		
	c) For above 1500 KL to 2500 Kl ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia Over Flow pipe - 500m dia Scour Pipe - 200mm dia		
	(iii) Manhole Frames & Covers		
	a) All man hole Frames & Covers shall be made of CI/DI materials with min. size of 0.60mX 0.60m - For Roof & Valve Chambers.		
	iv) CI/D.I Double Swan neck ventilators (min.of 150mm dia) shall be provided in top dome and slab with mosquito/fly proof nets - 4Nos.		
	v) RCC Finial ventilator with fly/bird protection with GI mesh - 1 No.		
	vi) RCC precast ladders of 0.60 m width - 2 Nos.		
	vii) RCC dog legged stair case of 1.00 m flight width and 1.20 m landing width R.C.C hand railing of 1.0 m height – 1 No		
	viii)The staircase shall be enclosed with brick masonry walls on three side and collapsible MS gate on front side up to 1st brace level, to prevent unauthorized entry.		
	ix) Construction of R.C.C valve chambers as per Standard Drawings with RCC cover slab fixed with CI/DI manhole Frame & Cover with lock and Key arrangement.The Mix shall not be less than VRCC M 20 grade with 150mm thick side walls, 150mm thick top slab, 150mm thick base slab over base course of 100mm thick (1:4:8) prop.		
	x) Balcony of 1.00 m width at floor slab level / middle ring beam level by using Stainless Steel pipe of grade 304 hand railing up to 1.20 m height, with top railing of 40mm dia pipe & middle railing of 25mm dia and verticals with 40mm dia at an interval not more than of 1.00m c/c.		
	xi) Water Level Indicator of reputed make – Digital type (1 No) and Conventional type (1 No)		
	xii) Lightening Arrestor with all its accessories complete including earthing,with relevant IS Codes - 1 No.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	xiii)Compound wall: Construction of compound wall including ornamental M.S.Gate of size 3.0 X 2.40m is included in the basic rate of ELSRs. Length of compound wall shall be minimum of 150m. Min. height of the compound wall shall be 1.80m above plinth and thickness 230mm in brick masonry in CM(1:6).The compound wall shall be constructed including earth work excavation in all types of soils for plinth beam of 230mm X 300mm and 0.75X0.75X1.20m size for column footing portions. The footings shall be of 0.75X0.75X0.25m in VRCC M20 grade and constructed over a C.C (1:4:8)prop bed of 100mm thick. The columns shall be of 230X230 mm in size with VRCC M20 grade at 3.00m c/c spacing, having depth of 1.20m below ground level and height of 2.00m above GL. The plinth beam of size of 230X300 mm shall be constructed in VRCC M20 grade at Gound level, over a bed of CC(1:4:8)-100mmthick. 450X450mm size columns in M20 grade shall be constructed for gate pillars. All the materials shall be followed as per the standards.		
	Tie beam shall be provided above the brick work with 230X200mm size, fixed with MS angulars of 25mm X 25mm X 4mm in "Y" shape to hieght of 0.60m, with embedded length of 150mm in concrete. The barbed wire fencing with 3 ply of 18 gauge shall be stretched in 4 rows (2x2). Plastering shall be done with 16mm thick in two coats i.e., base coat 12mm thick in CM(1:6)prop and 4mm thick 2nd coat CM(1:4) prop on both sides of brick work.		
	Snowcem paint in two coats shall be provided for both sides of wall. The M.S ornamental gate as per the approved drawings shall be provided with minimum of 3.60mts width and 2.40mts height with enamel paint. Yard lighting shall be arranged on four corners of compound wall. If the length of the wall is increased/decreased		
	Note:-For every 1m increase/decrease in length of compound wall the increase/decrease in basic rates of ELSRs of the capacities from 500KL to 2500KL shall be as follows.: i) 500 KL : 0.086% ii) 1000 KL : 0.047% iii) 1500 KL : 0.034% iv) 2000 KL : 0.026% v) 2500 KL : 0.022 % For intermediate capacities, interpolated percentages shall be adopted.		
	xiv) Staff Quarter shall be constructed for a minimum plinth area of 40 sqm with the following specification: RCC framed structure withconcrete grade not less than M20 design mix at the locations specified by the department at the time of execution with verandah, hall, bed room, kitchen and bath &W/C with floor area of 40.00sqmts excluding balconies and staircases.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	MS hollow door frame with cold rolled processed steel sheet 1.25mm thick bright CRCA conforming to IS 4351/76, Flush door shutters with solid bond wood bond board doors shall be provided. N.C.L. Windows centre fixed both sides openable shutter window 1.35 X 1.35mts outer frame section 48 x50mm shutter frame section with a size of 48 X20 mm mullion section of size 48 X 50mm fixed beading section of 12 X 12 mm shall be provided. Flooring with polished Kadapa stone shall be provided. Walls shall be provided with snowcem paint in two coats over primary coat. Electrical and water supply arrangement shall be provided as directed by dept officer. Water Storage tank made with plastic/polymer material of reputed make with necessary out let and inlet connection pipes shall be provided. Septic tank for 5 users shall be provided.		
44	Rates for OHSRs/ELSRs including fixtures with a staging of 10 m without Seismic analysis.		
a	Upto 10,000 Litres capacity	Per litre	51.1
B	15,000 Litres capacity	Per litre	35.1
C	20,000 Litres capacity	Per litre	34.5
D	40,000 Litres capacity	Per litre	30.6
E	60,000 Litres capacity	Per litre	23.2
F	1,00,000 Litres capacity	Per litre	21.4
g	2,00,000 Litres capacity	Per litre	18.7
H	3,00,000 Litres capacity	Per litre	17.6
i	4,00,000 Litres capacity	Per litre	15.5
j	4,50,000 Litres capacity	Per litre	13.4
	NOTE: -1) For intermediate ranges proportional rates may be adopted. All VRCC shall be in M30 grade design mix.		
	2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.5,000/- per tonne for cement and Rs.36,000/- per tonne for steel.		
	3) For every Meter of staging less than 10 m, the rate shall be reduced by Rs.0.05 paise per litre per every Meter of difference in staging		
	4) For every Meter of staging above 10 m , the rate shall be increase by Rs.0.10 paise per litre per every Meter 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-5000) x (0.07/5000) 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-36000) x (0.02/36000) Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.		
	7) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	8) The above rates shall be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of wheather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes,bends and valves as per departmental designs and drawings.		
	9) The above rates are applicable for wind pressures upto 350 kg / sq m .For decrease in wind presure the rate has to be decreased by 5% per every 100kg/sqm. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.		
	10) For Tribal/Agency/ Rural area, the above rates shall be increased by 10%		
	11) If the ELSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quanitites based on the design & difference to be paid extra.		
	12) 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 33 1/3% .		
	13) The rate is proposed duly adopting the 2015-16 rate of SSR with the Steel & Cement rates of April -2016		
	13) Fixtures include :		
	a) RCC or Aluminium ladder inside 0.60 m wide.		
	b) spiral staircase on the outside shall be provided upto 200KL. Above 200KL capacity dog legged staircase shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing upto 1.0 height.		
	c) Lightening arrestor, including conductor and earthing etc.		
	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 M.S ladder and Verticals with HDPE of 10kg/Sqcm shall be provided for single column OHSRs only.		
	h) Minimum staging for all ELSR/OHSR shall be 10.0mts.		
	i) The increase in staging shall be at 1.0mt interval.		
	j)The railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20mts.		
	k). The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with M.S collapsible gate upto 1st brace level from ground level to prevent unauthorized entry.		
	l). D.I swan neck ventilators shall be provided in top dome and slab.		
	m). The above rates are exclusive of all inlet, out let conenction and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves of heavy duty confirming to the specification of SoR item No.28		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
45	Construction of Rapid Gravity Filtration Plant including all civil, mechanical and electrical works using sand as filter media, compatible with SCADA arrangements, duly following relevant IS codes in the design of plant components including trial running for 90 days etc., including chlorine contact tank & consumables etc., complete.		
	1) 2.0 Mld	Per litre	3.8
	2) 5.0 Mld	Per litre	3.1
	3) 10.0 Mld	Per litre	2.8
	4) 20.0 Mld	Per litre	2.4
	5) 30.00 mld and above	Per litre	2.1
	NOTE :-		
	a) For Intermediate Capacities proportional rates may be adopted		
	b) The above rates are arrived with base rate of Cement Rs.5000/- per MT & Steel for Rs36000/- per MT for the month of April 2016		
	c) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc-5000) x (0.07/5000) Rc = Rate of Cement (Rs per MT) at the time of preparation of estimate.		
	d) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x (Rs-36000) x (0.02/36000) Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate		
	e) For Rural areas an extra allowance of 10% shall be given on basic rate		
	f) For components immersed in water Stainless Steel of Grade 304L shall be used., for other components 304 Grade steel shall be used.		
	g) Lab testing equipment of reputed make and consumables for one year. The testing equipment for conducting all laboratory tests shall be installed & training shall be imparted to the Municipal staff .		
	h) The rate is proposed duly adopting the 2015-16 rate of SSR with the Steel & Cement rates of April -2016		
	The above rates of Filtration Plants shall include all the following components.		
	A) Civil Works (All works of VRCC Shall be in M30 design mix)		
	1). Stilling Chamber and Aeration cascade		
	2). Raw water channel with Stainless Steel Weir of SS 304 L Grade material and also with digital flow meters		
	3) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc., using 304 L Grade Steel.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	4) 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.,.		
	5) Filter house, Chemical house, Alum store, Laboratory room , Chlorination plant room, toilet etc. (All structures shall be provided RCC roof only).Chemical house & Chlorinator rooms are to be isolated and shall be as per CPHEEO manual.		
	6) Wash water tank of suitable capacity shall be constructed at minimum clearance of 2.00m, above the roof slab of Filter beds / any other structure, and the minimum residual head at the top of under drain system shall not be less than 8.0 meters		
	7) Chlorine contact tank		
	8) All the Doors and Windows shall be of Best Teak wood/Aluminium / UPVC make, except entrance door. The entrance door including shutter in filter house shall be with best teak wood of minmum size of 2.40 X 2.40 mts. a) Main Doors of all individual Buidings shall be made of Best Teak wood b) Other Internal Doors of the buildings shall be of Compresed wood/ Aluminium/ UPVC materials. c) Ventilators shall be provided for each building/structure of suitable size as per NBC statndards.		
	9) a)All pipes in Plant shall be of D.I. , D/F materials. All 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. , D/F material. The size of sludge disposal pipe shall be minimum of 450 mm dia with D.I D/F pipe and minimum length of 100 meters. b) All the Valves in Plant shall be heavy duty and as per the specification of SoR item No.28		
	10) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be suffuicently spaced for easy operation & maintenance and inspection, as per standard norms.		
	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 horizotals,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.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	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.		
	15) The basement of the Filtration plant building shall be minimum of 1.20m 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) a)High efficient Air Blowers 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 Standards at site. b) the Piping from Blower to Filter Beds shall be GI and submerged pipe in water shall be HDPE.		
	19) UPVC pipes shall be provided for under drain system.Filter pipe manifolds shall be assembled with HDPE pipes.		
	20) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.		
	21) Chlorinator : Vaccum type chlorinator shall be provided with following specifications:a) Vaccum operated solution feeding type Vaccum Regulator, Rotometer, Rate setting Valve, built-in NRV, Gas Overflow out let by manifolding to mount the system with the unit.b) The unit shall consists of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacum relief Valves - for control of chlorinator dosage.c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel seam less pipes, copper tube with brass fittings of suitable size & dimensions, with diaphragm sealed chlorine pressure gauge arrangements		
	d) Water Booster Pump of pumping capacity ranging from 2 cum/hr to 12 cum/hr, with Head ranging from 16 to 35 m e) The water & solution carrying pipes shall be made of UPVC material of suitable size incl.all specials such as Tee's , Bends, couplings & NRVs and also Pressure Gauges of suitable range. f) Chlorine Gas Leak detector with alarm indicator. The installation includes all necessary accssories, 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 Cholorination Plant to the required demand, with a deffect liability period of 1 year. The cholrinator of may be of any reupted make or any make of Metito/Toshocow-Jesco Siemens Industrial Devices. g) Life breathing apparatus. h) Chlorine escape BA set		
	i) 2 to 10 MLD Plants - 1Kg/hr Chlorinator- For Post Chlorination		
	ii) 10 MLD to 20 MLD Plants - 2 Kg/hr Chlorinator - For Post Chlorination.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	iii) 20 MLD to 50 MLD Plants - 5 Kg/hr Chlorinator - For Post Chlorination.		
	B) Mechanical Equipment		
	1) Alum dosing equipment with SS 304 material made stirrers & paddles for chemical resistance. (Alum tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)		
	2) Flash mixer equipment with SS 304 material made stirrers & paddles for chemical resistance.		
	3) Filtration plant euqipment instrumentation and piping.		
	4) Clariflocculation equipment (with stainless steel blades) with rotating bridge arrangement etc.,		
	5) Pneumatic tyre wheel shall be provided for the bridge clariflocculator.		
	6) Wash water tank fittings and pumpsets with 100% stand by.		
	7) Air blower with motor of 100% stand by and pipe connections made with of SS pipes confirming to SS 304 Grade, in filter bed region.		
	8) Chlorination equipment and pipe connections with chlorinator of 100% standby.		
	9) Spares & Tools for 2 years.		
	10) Gaseous Chlorination with cylinders has to be provided with protection measures.		
	C) Electrical Equipment		
	1) Necessary power supply wiring to motors and switches bus bar connections as per IE Rules		
	2) Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.		
	3) Erecting mechanical and electrical equipment, trial run for 90 days at 23.50 hours per day testing the treated water as per CPHEEO 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 of copper material, Cable ducts shall be covered with MS / Aluminum chequed plate.		
	6) Min LUX levels inside the treatment plant shall be maintained.		
	7) Yard lighting shall be provided as per norms.		
	D) Equipment for Flow measurements		
	1) Equipment for measuring Conductivity, Turbidity, Ph value, Residual Chlorine with recording & data storage facility (Computer based) & Alarm by SMS or other methods.		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	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/ defficiencies 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. The equipment shall have the following specifications.		
	Hardware:		
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out lets with accessories consists of		
	ii) Electrode Type: General type, Scraper type or replaceable type Electorde made with material of SS external Ultra Touch Sensors as per requirement.		
	iii) Customised Application Requirement : Sensors with Interface logic control board with serial interfaces, including accessories such as Add-on port, external DC Power Socket, 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 LCB Display, Menu Driven Data for sending to Onsite Big Display, operated with Battery Power of any reputed make or any equalent 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 equalent 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 equalent make.		
	Software:		
	The software shall be designed with Web Domain with Data Base Server and Web Name as per the directions of the Departmental Authorities		

Sl. No.	Description	Unit	SoR for 2016-17
1	2	3	4
	The application of Software for Web design & Desktop shall meet the following requirements:		
	i) 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.		
	ii) Off Site Display: Letters with size of 1.5' seven Sigmoid LED Display with Interface GPRS/GSM Modules Offsite Display, with Display of Bed Total Rating, Total Cumulative Reading as specified on On-site Display Features.		
	The system shall have also the features of Onsite Bed Wash Voice Precautions for Bed Levels, Readings, Ratings, Bed Capacity Readings and Ratings and Bed Low Level Triggering, before & after Bed wash.		
	The software shall also have the features of sending messages to the mobiles of the Departmental designatories indicating Bed Low Levels, Power Supply timings, Bed Wash timings and its status, Power Supply timings and its status Grid View Table, Motor Working time and its status Grid View Table, all trigger events and schedule information and including all Snap View Reports, all Daily, Monthly, Yearly Reports, all Power Working Reports, all Power Events Information etc.,		

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

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003 , Ex-factory, Excluding transportation, taxes & duties				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Meter	134		
	100 mm dia	Meter	156		
	150 mm dia	Meter	185		
	200 mm dia	Meter	221		
	225 mm dia	Meter	240		
	250 mm dia	Meter	255		
	300 mm dia	Meter	366	859	874
	350 mm dia	Meter	457	1030	1050
	400 mm dia	Meter	527	1136	1163
	450 mm dia	Meter	645	1305	1319
	500 mm dia	Meter	706	1411	1629
	600 mm dia	Meter	1047	2136	2529
	700 mm dia	Meter	1336	2650	3391
	800 mm dia	Meter	1642	3502	4418
	900 mm dia	Meter	2072	4397	5513
	1000 mm dia	Meter	2531	5473	7556
	1100 mm dia	Meter	2982	6455	8755
	1200 mm dia	Meter	3555	7604	10235
	1400 mm dia	Meter	4864	9800	14126
	1600 mm dia	Meter	5604	12717	16857
	1800 mm dia	Meter	7374	16868	22602

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

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

Cost Cement. Rs.5, 000/- per MT (including all taxes and freight).

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

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

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

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

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

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

C1 = Rs 5,000/- 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 Meter of pipe as per IS: 458/2003.

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

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

Sl.No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Collars conforming to B.I.S. 458/2003 (rate per each collar) suitable for R.C.C. Plain ended pipes including transportation but excluding taxes & duties				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	42		
	100 mm dia	Each	43		
	150 mm dia	Each	44		
	200 mm dia	Each	61		
	225 mm dia	Each	64		
	250 mm dia	Each	70		
	300 mm dia	Each	93	132	132
	350 mm dia	Each	115	166	166
	400 mm dia	Each	127	189	189
	450 mm dia	Each	200	252	252
	500 mm dia	Each	226	300	300
	600 mm dia	Each	308	393	393
	700 mm dia	Each	401	526	526
	800 mm dia	Each	564	673	673
	900 mm dia	Each	676	784	784
	1000 mm dia	Each	789	979	979
	1100 mm dia	Each	964	1241	1241
	1200 mm dia	Each	1170	1554	1554
	1400 mm dia	Each	1509	1967	1967
	1600 mm dia	Each	1929	2518	2518
	1800 mm dia	Each	1963	3241	3241

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.5000/- per MT (including all taxes and freight).

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

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

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

R1 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of M.S. Rods = $(S2 - S1) / 1000 \times W_s$. R2 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of Cement = $(C2 - C1) / 1000 \times W_c$.

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

C1 = Rs.5,000/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

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

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

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

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 at ex-factory (rate per meter of effective length) Excluding transportation, taxes & duties.				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Meter	169		
	100 mm dia	Meter	192		
	150 mm dia	Meter	223		
	200 mm dia	Meter	274		
	225 mm dia	Meter	298		
	250 mm dia	Meter	317		
	300 mm dia	Meter	446	1104	1169
	350 mm dia	Meter	574	1376	1398
	400 mm dia	Meter	632	1525	1551
	450 mm dia	Meter	787	1682	1694
	500 mm dia	Meter	908	1923	2089
	600 mm dia	Meter	1275	2698	2741
	700 mm dia	Meter	1651	3447	3559
	800 mm dia	Meter	2123	4565	4635
	900 mm dia	Meter	2689	5737	5844
	1000 mm dia	Meter	3279	6452	6899
	1100 mm dia	Meter	3820	7615	7965
	1200 mm dia	Meter	4315	8990	9323
	1400 mm dia	Meter	6186	11902	13222
	1600 mm dia	Meter	7654	15456	15788
	1800 mm dia	Meter	8528	20503	21185

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.5000/- per MT (including all taxes and freight).

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

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

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

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

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

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

C1 = Rs. 5,000/- , 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 Meter of pipe as per IS:458/2003.

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

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

Sl.No.	Description				
1	2				
1	Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 Ex-factory (rate per meter of effective length) Excluding transportation, taxes & duties.				
	Size	Unit	SoR For 2016-17		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Meter	225	253	288
	100 mm dia	Meter	253	303	350
	150 mm dia	Meter	349	451	556
	200 mm dia	Meter	406	582	768
	225 mm dia	Meter	456	661	854
	250 mm dia	Meter	499	704	892
	300 mm dia	Meter	671	1012	1257
	350 mm dia	Meter	836	1412	1819
	400 mm dia	Meter	993	1873	2409
	450 mm dia	Meter	1053	2220	2956
	500 mm dia	Meter	1412	2400	3352
	600 mm dia	Meter	1933	3582	4638
	700 mm dia	Meter	2580	4706	5875
	800 mm dia	Meter	3227	5567	7084
	900 mm dia	Meter	3888	6529	
	1000 mm dia	Meter	4927	7472	
	1100 mm dia	Meter	5920		
	1200 mm dia	Meter	6922		

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.5000/- per MT (including all taxes and freight).

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

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

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

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

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

S1 = Rs. 36,000/-

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

C1 = Rs. 5,000/-, 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 Meter of pipe as per IS: 458 / 2003.

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

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

Sl. No.	Description				
1	2				
1	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes & duties. the Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.				
	Size	Unit	SoR For 2016-17		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	26		
	100 mm dia	Each	32		
	150 mm dia	Each	57		
	200 mm dia	Each	67		
	225 mm dia	Each	73		
	250 mm dia	Each	82		
	300 mm dia	Each	100	129	129
	350 mm dia	Each	116	154	154
	400 mm dia	Each	128	175	175
	450 mm dia	Each	145	198	198
	500 mm dia	Each	189	227	227
	600 mm dia	Each	248	329	329
	700 mm dia	Each	248	394	394
	800 mm dia	Each	428	478	478
	900 mm dia	Each	536	646	646
	1000 mm dia	Each	627	780	780
	1100 mm dia	Each	754	999	999
	1200 mm dia	Each	1208	1256	1256
	1400 mm dia	Each	1328	1382	1382
	1600 mm dia	Each	1654	1686	1686
	1800 mm dia	Each	2060	2154	2154
2	Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes & duties. the Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.				
	Size				
	80 mm dia	Each	26	26	26
	100 mm dia	Each	32	33	33
	150 mm dia	Each	57	57	57
	200 mm dia	Each	67	67	67
	225 mm dia	Each	73	75	77
	250 mm dia	Each	82	85	86
	300 mm dia	Each	100	106	110
	350 mm dia	Each	116	132	145
	400 mm dia	Each	128	175	178

	Size				
	450 mm dia	Each	145	200	205
	500 mm dia	Each	189	227	237
	600 mm dia	Each	248	280	285
	700 mm dia	Each	338	370	394
	800 mm dia	Each	428	474	474
	900 mm dia	Each	536	598	
	1000 mm dia	Each	627	722	
	1100 mm dia	Each	754		
	1200 mm dia	Each	1208		

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

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

Sl.No.	Description	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	2	3	4	5	6
1	Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per Meter) SoR for 2016-17				
		NP - 2 Class		NP - 3 Class & NP - 4 Class	
	80 mm dia	3.15	0.14		
	100 mm dia	4.20	0.14		
	150 mm dia	6.30	0.27		
	200 mm dia	8.40	0.27		
	225 mm dia	9.45	0.42		
	250 mm dia	10.50	0.42		
	300 mm dia	14.70	0.56	40.95	1.12
	350 mm dia	21.00	1.26	44.10	1.26
	400 mm dia	23.10	1.40	52.50	1.68
	450 mm dia	30.45	1.68	56.70	1.95
	500 mm dia	32.55	1.95	61.95	1.95
	600 mm dia	47.25	3.08	93.45	4.34
	700 mm dia	59.85	4.34	103.95	5.04
	800 mm dia	70.35	4.34	124.95	5.04
	900 mm dia	80.85	4.34	163.80	9.50
	1000 mm dia	119.70	8.94	197.40	9.50
	1100 mm dia	131.25	8.94	214.20	10.34
	1200 mm dia	149.10	9.50	239.40	10.34
	1400 mm dia	179.55	9.50	325.50	10.76
	1600 mm dia	207.90	9.50	390.60	10.76
	1800 mm dia	239.40	9.50	520.80	15.10

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

Sl.No.	Description	Rate upto 5 Kms Lead including Loading, unloading & stacking	Rate for every additional 1 KM lead or part thereof.	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	2	3	4	5	6
1	Conveyance of R.C.C. Socket and Spigot pipes on all weather roads including loading, unloading and stacking (per Meter of effective length) SoR for 2016-17				
	Size	NP - 2 & P1 Class		NP – 3 & NP - 4 Class	
	80 mm dia	4.20	0.13		
	100 mm dia	4.20	0.25		
	150 mm dia	7.35	0.25		
	200 mm dia	9.45	0.50		
	225 mm dia	10.50	0.50		
	250 mm dia	11.55	1.14		
	300 mm dia	18.90	1.27	49.68	1.52
	350 mm dia	22.05	1.40	54.00	1.77
	400 mm dia	22.05	1.65	66.96	3.31
	450 mm dia	31.50	1.77	73.44	3.31
	500 mm dia	34.65	1.91	81.00	3.56
	600 mm dia	45.15	3.31	109.08	5.08
	700 mm dia	55.65	3.56	146.88	10.04
	800 mm dia	76.65	5.46	173.88	10.04
	900 mm dia	114.45	9.79	200.88	10.04
	1000 mm dia	130.20	9.79	211.68	10.04
	1100 mm dia	147.00	10.04	226.80	10.04
	1200 mm dia	163.80	10.04	253.80	10.29
	1400 mm dia	203.70	10.04	340.20	10.29
	1600 mm dia	241.50	10.29	401.76	11.06
	1800 mm dia	299.25	10.29	535.68	15.12
		P2 – Class		P3 – Class	
	80 mm dia	4.20	0.13	4.20	0.13

	100 mm dia	4.20	0.25	4.20	0.25
	150 mm dia	7.35	0.25	7.35	0.25
	200 mm dia	9.45	0.50	12.60	1.14
	225 mm dia	12.60	1.14	14.70	1.27
	250 mm dia	13.65	1.27	17.85	1.40
	300 mm dia	26.25	1.52	30.45	1.65
	350 mm dia	32.55	1.77	42.00	1.91
	400 mm dia	38.85	1.91	55.65	3.31
	450 mm dia	49.35	3.18	69.30	3.31
	500 mm dia	55.65	3.31	84.00	4.96
	600 mm dia	73.50	3.31	121.80	6.35
	700 mm dia	110.25	6.73	177.45	10.04
	800 mm dia	145.95	9.53	226.80	10.04
	900 mm dia	177.45	10.04		
	1000 mm dia	218.40	10.29		

8. S o R FOR A.C. PIPES

Sl.No	Description					
1	Manufacture, Supply of A.C. Pressure pipes (mazza process) as per BIS No: 1592/2003 as amended from time to time duly marked with BIS mark, including cost of material, incidental handling, loading and packing charges but are exclusive of transportation, unloading, stacking at departmental stores, and excluding excise duty, VAT octroi and other govt. Levies. The pipes shall be tested at factory premises confirming to is code 1592/2003.					
	Size	Unit	SoR For 2016-17			
				Class - 15	Class - 20	Class - 25
	80 mm dia	Rate/Meter		199	217	271
	100 mm dia	Rate/Meter		261	332	408
	125 mm dia	Rate/Meter		341	425	533
	150 mm dia	Rate/Meter		480	597	750
	200 mm dia	Rate/Meter		795	1016	1289
	250 mm dia	Rate/Meter		1008	1306	1635
	300 mm dia	Rate/Meter		1410	1836	2345
	350 mm dia	Rate/Meter		1719	2234	2817
	400 mm dia	Rate/Meter		2235	2922	3627
	450 mm dia	Rate/Meter		2651	3518	4405
	500 mm dia	Rate/Meter		3274	4303	5403
	600 mm dia	Rate/Meter		4656	6078	7745
	700 mm dia	Rate/Meter		6158	8352	10800
	750 mm dia	Rate/Meter		7017	9641	12358
	800 mm dia	Rate/Meter		8029	10923	14019
	850 mm dia	Rate/Meter		9006	12289	15787
	900 mm dia	Rate/Meter		10040	13729	17659
	1000 mm dia	Rate/Meter		12394	16855	21715
2	Lowering, laying and jointing of ac pressure pipes with ac couplings or CID joints complete with Rubber rings in readymade trenches true to alignment and gradient including filling with water lead upto 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/1972					
	80 mm dia	Rate/Meter		42	42	42
	100 mm dia	Rate/Meter		61	61	61
	125 mm dia	Rate/Meter		67	67	67
	150 mm dia	Rate/Meter		80	80	80
	200 mm dia	Rate/Meter		105	105	105
	250 mm dia	Rate/Meter		126	126	126
	300 mm dia	Rate/Meter		155	155	155
	350 mm dia	Rate/Meter		263	263	263
	400 mm dia	Rate/Meter		396	396	396
	450 mm dia	Rate/Meter		482	482	482
	500 mm dia	Rate/Meter		612	612	612
	600 mm dia	Rate/Meter		658	658	658
	700 mm dia	Rate/Meter		734	734	734
	750 mm dia	Rate/Meter		816	816	816
	800 mm dia	Rate/Meter		859	859	859
	850 mm dia	Rate/Meter		917	917	917

	900 mm dia	Rate/Meter		1000	1000	1000
	1000 mm dia	Rate/Meter		1030	1030	1030
	<p>1. The above rates of AC Pipes are based on the Cement cost of RS 5,000/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 78,400/- per M.T (Excluding all taxes & Frieght)</p> <p>For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under.</p> <p>$W \times 0.85 \times IC$ Where W = Weight of pipe in Kg's/Rmt IC = Increase/Decrease in cost of cement/Kg</p> <p>For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under :</p> <p>$W \times 0.15 \times IF$ Where : W = Weight of pipe in Kg's/Rmt IF = Increase /Decrease in cost of fiber/Kg</p>					
Note:	<p>1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process.</p> <p>2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.</p> <p>3)The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate</p>					
2	<p>Transportation of AC pressure pipes at site of work anywhere in Andhra Pradesh 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).</p>					<p>5% on the basic cost of corresponding AC Pressure pipes.</p>

9. S o R FOR A.C. COUPLINGS

Sl. No.	Description					
1	2					
1	Manufacture, Supply of A.C Couplings suitable to A.C. Pressure pipes (mazza process) as per BIS: 1592/2003 excluding cost of rubber rings to suit AC pressure pipes including cost of material, incidental handling, packing, transportation and unloading at site transit risk, but excluding excise duty, VAT and other govt. Levies and testing of joints as per IS Code.					
	Size	Unit	SoR For 2016-17			
0				Class - 15	Class - 20	Class – 25
	80 mm dia	Rate/Each		95	103	118
	100 mm dia	Rate/Each		123	133	160
	125 mm dia	Rate/Each		155	171	205
	150 mm dia	Rate/Each		181	226	279
	200 mm dia	Rate/Each		333	363	462
	250 mm dia	Rate/Each		388	489	623
	300 mm dia	Rate/Each		506	656	844
	350 mm dia	Rate/Each		657	848	1083
	400 mm dia	Rate/Each		1012	1320	1691
	450 mm dia	Rate/Each		1211	1597	2051
	500 mm dia	Rate/Each		1445	1932	2467
	600 mm dia	Rate/Each		1770	2221	2840
	700 mm dia	Rate/Each		2339	3149	4096
	750 mm dia	Rate/Each		2639	3608	4657
	800 mm dia	Rate/Each		2994	4060	5253
	850 mm dia	Rate/Each		3336	4541	5888
	900 mm dia	Rate/Each		3691	5048	6554
	1000 mm dia	Rate/Each		4504	6138	7999

1. The above rates of AC Coupling are based on the Cement cost of RS 5,000/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 78,400/- per M.T (Excluding all taxes & Fright)

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

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 and transportation and unloading at site transit risk etc., but excluding VAT. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988					
	Size	Unit	SoR for 2016-17			
				Class - 15	Class - 20	Class - 25
	80 mm dia	Each Set		75	75	75
	100 mm dia	Each Set		91	91	91
	125 mm dia	Each Set		119	119	119
	150 mm dia	Each Set		150	150	150
	200 mm dia	Each Set		156	156	156
	250 mm dia	Each Set		180	180	180
	300 mm dia	Each Set		180	180	180
	350 mm dia	Each Set		205	205	205
	400 mm dia	Each Set		251	251	251
	450 mm dia	Each Set		294	294	294
	500 mm dia	Each Set		340	340	340
	600 mm dia	Each Set		385	385	385
	700 mm dia	Each Set		800	800	800
	750 mm dia	Each Set		831	831	831
	800 mm dia	Each Set		892	892	892
	850 mm dia	Each Set		994	994	994
	900 mm dia	Each Set		1045	1045	1045
	1000 mm dia	Each Set		1158	1158	1158

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

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

Sl. No.	Description							
1	2							
1	Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes & duties., for the following Field/Site Test Pressures. (The manufacture shall design the pipes as per the IS Code 784-2001)							
	Size	Unit	SoR for 2016-17.					
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			6 Kg/cm2	8 Kg/cm2	10 Kg/cm2	12 Kg/cm2	14 Kg/cm2	16 Kg/cm2
	350 MM DIA	Meter	2525	2533	2545	2554	2605	2695
	400 MM DIA	Meter	2713	2733	2762	2795	2844	2885
	450 MM DIA	Meter	2877	2888	2918	2972	3047	3111
	500 MM DIA	Meter	3112	3123	3145	3208	3272	3368
	600 MM DIA	Meter	3572	3596	3627	3735	3852	3966
	700 MM DIA	Meter	4060	4120	4240	4370	4500	4700
	800 MM DIA	Meter	4920	5050	5170	5350	5520	5858
	900 MM DIA	Meter	5660	5830	5990	6260	6490	7000
	1000 MM DIA	Meter	6680	6890	7110	7330	7600	8190
	1100 MM DIA	Meter	7520	7750	8020	8290	8560	9310
	1200 MM DIA	Meter	8460	8790	9090	9290	9850	10770
	1300 MM DIA	Meter	9640	10000	10360	10710	11770	12200
	1400 MM DIA	Meter	11180	11610	12030	12740	13620	14260
	1500 MM DIA	Meter	12660	13160	13630	14890	15460	17340
	1600 MM DIA	Meter	14260	14800	15340	16840	17520	19310
	1700 MM DIA	Meter	15370	15990	16610	18180	20190	21200
	1800 MM DIA	Meter	17024	18095	19036	20891	21820	24210
	1900 MM DIA	Meter	18191	19176	20805	21987	23882	26370
	2000 MM DIA	Meter	19982	21215	22274	24439	27500	28680
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of rubber rings, cost of transportation of water and emptying pipe line after completion of field testing etc.							
	350 MM DIA	Meter	228	228	228	228	228	228
	400 MM DIA	Meter	246	246	246	246	246	246

	450 MM DIA	Meter	285	285	285	285	285	285
	500 MM DIA	Meter	303	303	303	303	303	303
	600 MM DIA	Meter	372	372	372	372	372	372
	700 MM DIA	Meter	437	437	437	437	437	437
	800 MM DIA	Meter	494	494	494	494	494	494
	900 MM DIA	Meter	541	541	541	541	541	541
	1000 MM IA	Meter	625	625	625	625	625	625
	1100 MM IA	Meter	702	702	702	702	702	702
	1200 MMDIA	Meter	778	778	778	778	778	778
	1300 MM DIA	Meter	882	882	882	882	882	882
	1400 MM DIA	Meter	997	997	997	997	997	997
	1500 MM DIA	Meter	1082	1082	1082	1082	1082	1082
	1600 MM DIA	Meter	1212	1212	1212	1212	1212	1212
	1700 MM DIA	Meter	1319	1319	1319	1319	1319	1319
	1800 MM DIA	Meter	1396	1396	1396	1396	1396	1396
	1900 MM DIA	Meter	1474	1474	1474	1474	1474	1474
	2000 MM DIA	Meter	1552	1552	1552	1552	1552	1552
3	Conveyance of pre-stressed (Non-cylinder) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes.(minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)							
	350 MM DIA	Per K.M/M	1.30	1.30	1.30	1.30	1.30	1.30
	400 MM DIA	Per K.M/M	1.30	1.30	1.30	1.30	1.30	1.30
	450 MM DIA	Per K.M/M	1.60	1.60	1.60	1.60	1.60	1.60
	500 MM DIA	Per K.M/M	1.70	1.70	1.70	1.70	1.70	1.70
	600 MM DIA	Per K.M/M	1.90	1.90	1.90	1.90	1.90	1.90
	700 MM DIA	Per K.M/M	3.10	3.10	3.10	3.10	3.10	3.10
	800 MM DIA	Per K.M/M	3.10	3.10	3.10	3.10	3.10	3.10
	900 MM DIA	Per K.M/M	3.10	3.10	3.10	3.10	3.10	3.10
	1000 MM DIA	Per K.M/M	5.00	5.00	5.00	5.00	5.00	5.00
	1100 MM DIA	Per K.M/M	5.00	5.00	5.00	5.00	5.00	5.00

	1200 MM DIA	Per K.M/M	9.60	9.60	9.60	9.60	9.60	9.60
	1300 MM DIA	Per K.M/M	9.70	9.70	9.70	9.70	9.70	9.70
	1400 MM DIA	Per K.M/M	9.70	9.70	9.70	9.70	9.70	9.70
	1500 MM DIA	Per K.M/M	9.70	9.70	9.70	9.70	9.70	9.70
	1600 MM DIA	Per K.M/M	10.90	10.90	10.90	10.90	10.90	10.90
	1700 MM DIA	Per K.M/M	10.90	10.90	10.90	10.90	10.90	10.90
	1800 MM DIA	Per K.M/M	11.10	11.10	11.10	11.10	11.10	11.10
	1900 MM DIA	Per K.M/M	11.60	11.60	11.60	11.60	11.60	11.60
	2000 MM DIA	Per K.M/M	11.60	11.60	11.60	11.60	11.60	11.60
4	Cost of Machine End pair (Socket +Spigot) for providing M.S Specials on PSC pipelines excluding cost of M.S Special including cost and conveyance to site etc., complete.							
	350 MM DIA	Per Pair	11000	11000	11000	11000	11000	11000
	400 MM DIA	Per Pair	12600	12600	12600	12600	12600	12600
	450 MM DIA	Per Pair	14200	14200	14200	14200	14200	14200
	500 MM DIA	Per Pair	15870	15870	15870	15870	15870	15870
	600 MM DIA	Per Pair	19000	19000	19000	19000	19000	19000
	700 MM DIA	Per Pair	22283	22283	22283	22283	22283	22283
	800 MM DIA	Per Pair	25500	25500	25500	25500	25500	25500
	900 MM DIA	Per Pair	28760	28760	28760	28760	28760	28760
	1000 MM DIA	Per Pair	31700	31700	31700	31700	31700	31700
	1100 MM DIA	Per Pair	34979	34979	34979	34979	34979	34979
	1200 MM DIA	Per Pair	38200	38200	38200	38200	38200	38200
	1300 MM DIA	Per Pair	41198	41198	41198	41198	41198	41198
	1400 MM DIA	Per Pair	48582	48582	48582	48582	48582	48582
	1500 MM DIA	Per Pair	57000	57000	57000	57000	57000	57000
	1600 MM DIA	Per Pair	63481	63481	63481	63481	63481	63481

	1700 MM DIA	Per Pair	71200	71200	71200	71200	71200	71200
	1800 MM DIA	Per Pair	81400	81400	81400	81400	81400	81400
	1900 MM DIA	Per Pair	94100	94100	94100	94100	94100	94100
	2000 MM DIA	Per Pair	113200	113200	113200	113200	113200	113200
5	Cost of M.S Flanges including cost of bolts, nuts, rubber packing etc., complete and flange thickness confirming to is:7322-1985 and flange dimensions confirming to is:1538-1993 excluding cost of ms specials including cost and conveyance to site, vat etc., complete.							
	Diameter and thickness	Unit	Rate		Diameter and thickness	Unit	Rate	
	80 mm dia x 15 mm thick	Each Flange	740		500mm dia x 20 mm thick	Each Flange	7530	
	100 mm dia x 15 mm thick	Each Flange	1016		600 mm dia x 20 mm thick	Each Flange	9479	
	125 mm dia x 15 mm thick	Each Flange	1220		700 mm dia x 25 mm thick	Each Flange	13407	
	150 mm dia x 15 mm thick	Each Flange	1625		750 mm dia x 25 mm thick	Each Flange	14760	
	200 mm dia x 15 mm thick	Each Flange	2030		800 mm dia x 25 mm thick	Each Flange	16520	
	250 mm dia x 15 mm thick	Each Flange	2640		900 mm dia x 25 mm thick	Each Flange	18959	
	300 mm dia x 15 mm thick	Each Flange	2990		1000 mm dia x 25 mm thick	Each Flange	22340	
	350 mm dia x 18 mm thick	Each Flange	4360		1050 mm dia x 25 mm thick	Each Flange	23670	
	400 mm dia x 18 mm thick	Each Flange	5440		1100 mm dia x 25 mm thick	Each Flange	25590	
	450 mm dia x 18 mm thick	Each Flange	6324		1200 mm dia x 32 mm thick	Each Flange	33990	

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.52500/-MT (Basic+ CED+ST & freight).
and cement price of Rs5,000/- 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 meter) due to change in the cost of HT Wire = (H2-H1)/1000 X Wh.

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

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

C1 = Rs. 5,000/- 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 meter of pipe. Wc= Weight of Cement required (Kg.) per meter of pipe.

The rates for MS flanges are considering landed price of MS Plates of Rs.36, 000/- per MT. Price variation to be released on actual weight of flange.

Note: 1) The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

2) The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl 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 for the following Field/Site Test Pressures.(The manufacture shall design the pipes as per the IS Code 784-2001)										
	Size	Unit	SoR For 2014-15								
			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	4840	4840	4840	4860	4910	4940	5000	5040	5080
	450 MM DIA	Meter	5170	5170	5190	5230	5270	5330	5400	5450	5490
	500 MM DIA	Meter	5500	5500	5550	5610	5660	5720	5800	5870	5930
	600 MM DIA	Meter	6320	6400	6470	6540	6610	6680	6800	6900	6970
	700 MM DIA	Meter	7200	7300	7390	7490	7580	7680	7840	7950	8080
	800 MM DIA	Meter	8480	8590	8710	8830	8950	9080	9260	9420	9570
	900 MM DIA	Meter	9660	9810	9970	10120	10280	10440	10870	11080	11330
	1000 MM DIA	Meter	11610	11800	11990	12180	12380	12570	13140	13420	13710
	1100 MM DIA	Meter	12910	13140	13370	13600	13840	14080	14770	15080	15440
	1200 MM DIA	Meter	14370	14640	14920	15200	15480	15760	16590	16980	17370
	1300 MM DIA	Meter	16100	16430	16760	17090	17420	18060	18730	19220	19750
	1400 MM DIA	Meter	18030	18440	18860	19320	20150	20670	21450	21670	22560
	1500 MM DIA	Meter	21300	21740	22180	22620	23470	23960	24610	25600	26150
	1600 MM DIA	Meter	24220	24720	25220	26140	26700	27330	28430	29050	29680
	1700 MM DIA	Meter	26020	26590	27160	28210	28830	30160	30870	31580	32290
	1800 MM DIA	Meter	30740	31370	32480	33180	33890	35380	36170	36970	37770
	1900 MM DIA	Meter	33050	33760	35000	35780	37370	38240	39120	40010	40900
	2000 MM DIA	Meter	34920	36220	37090	37960	39710	40690	41660	42650	43640
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diapher cloth, cost of transportation of water and emptying pipe line after completion of field testing etc.										

	400 MM DIA	Meter	480	480	480	480	480	480	480	480	480
	450 MM DIA	Meter	565	565	565	565	565	565	565	565	565
	500 MM DIA	Meter	615	615	615	615	615	615	615	615	615
	600 MM DIA	Meter	720	720	720	720	720	720	720	720	720
	700 MM DIA	Meter	821	821	821	821	821	821	821	821	821
	800 MM DIA	Meter	942	942	942	942	942	942	942	942	942
	900 MM DIA	Meter	1061	1061	1061	1061	1061	1061	1061	1061	1061
	1000 MM DIA	Meter	1163	1163	1163	1163	1163	1163	1163	1163	1163
	1100 MM DIA	Meter	1318	1318	1318	1318	1318	1318	1318	1318	1318
	1200 MM DIA	Meter	1438	1438	1438	1438	1438	1438	1438	1438	1438
	1300 MM DIA	Meter	1540	1540	1540	1540	1540	1540	1540	1540	1540
	1400 MM DIA	Meter	1695	1695	1695	1695	1695	1695	1695	1695	1695
	1500 MM DIA	Meter	1881	1881	1881	1881	1881	1881	1881	1881	1881
	1600 MM DIA	Meter	2036	2036	2036	2036	2036	2036	2036	2036	2036
	1700 MM DIA	Meter	2293	2293	2293	2293	2293	2293	2293	2293	2293
	1800 MM DIA	Meter	2431	2431	2431	2431	2431	2431	2431	2431	2431
	1900 MM DIA	Meter	2651	2651	2651	2651	2651	2651	2651	2651	2651
	2000 MM DIA	Meter	2823	2823	2823	2823	2823	2823	2823	2823	2823
3	Conveyance of Pre-stressed (Cylinder type) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)										
	400 MM DIA	Per KM/M	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	450 MM DIA	Per KM/M	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	500 MM DIA	Per KM/M	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	600 MM DIA	Per KM/M	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
	700 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	800 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	900 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90

Public Health Items										
	1000 MM DIA	Per KM/M	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
	1100 MM DIA	Per KM/M	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
	1200 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	1300 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	1400 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	1500 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	1600 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	1700 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
	1800 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
	1900 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
	2000 MM DIA	Per KM/M	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

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

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

HR Coil (Hot Rolled): - Rs.41, 500/- (including all taxes & freight)

Cement Cost Rs. 5,000/- 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 meter) due to change in the cost of HT Wire = $(H2 - H1) / 1000 \times Wh$.

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

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

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

R1 = Rs. 41,500/- R2 = Cost of HR Coil (Rs. per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,000/- 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 Meter of pipe. Wc = Weight of Cement required (Kg.) per Meter of pipe.

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

Note: 1) The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

2) The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No	Description											
1	2											
1	Bar Wrapped Steel Cylindrical (BWSC) pipes conforming to IS 15155 - 2002, ex-factory excluding transportation, taxes and duties etc., for bar wrapped steel cylindrical pipes for the following Field/Site Test Pressures. (The manufacture shall design the pipes as per the IS Code 784-2001)											
	Size	Unit	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			4 -12 Kg/cm ²	14 Kg/cm ²	16 Kg/cm ²	18 Kg/cm ²	20 Kg/cm ²	22 Kg/cm ²	24 Kg/cm ²	26 Kg/cm ²	28 Kg/cm ²	30 Kg/cm ²
	250 MM DIA	Meter	2400	2400	2400	2400	2400	2400	2660	2740	2840	2910
	300 MM DIA	Meter	2680	2680	2680	2680	2680	2790	3190	3300	3420	3540
	350 MM DIA	Meter	3240	3240	3240	3290	3440	3610	3760	3910	4070	4240
	400 MM DIA	Meter	3570	3570	3640	3840	4040	4230	4420	4620	4870	5050
	450 MM DIA	Meter	3990	4020	4280	4520	4780	5020	5310	5570	5810	6100
	500 MM DIA	Meter	4320	4600	4900	5220	5520	5870	6200	6550	6910	7340
	600 MM DIA	Meter	5340	5690	6130	6550	7000	7470	8000	8540	9020	9530
	700 MM DIA	Meter	6500	7080	7660	8240	8940	9620	10240	11150	11730	12320
	800 MM DIA	Meter	7840	8580	9330	10200	11190	12000	13030	13840	14660	15600
	900 MM DIA	Meter	9460	10380	11310	12320	13430	14660	15710	16720	17960	19350
	1000 MM DIA	Meter	11220	12360	13650	14970	16160	17500	18700	20190	21920	23290
	1100 MM DIA	Meter	14720	15020	16400	17930	19410	20970	22880	24350	26210	28110
	1200 MM DIA	Meter	16050	17110	18780	20510	22280	24290	26580	28800	30830	32770
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diaher cloth, cost of transportation of water and emptying pipe line after completion of field testing.											
	250 MM DIA	Meter	327	327	327	327	327	327	327	327	327	327
	300 MM DIA	Meter	385	385	385	385	385	385	385	385	385	385
	350 MM DIA	Meter	456	456	456	456	456	456	456	456	456	456
	400 MM DIA	Meter	509	509	509	509	509	509	509	509	509	509
	450 MM DIA	Meter	509	509	509	509	509	509	509	509	509	509
	500 MM DIA	Meter	638	638	638	638	638	638	638	638	638	638

	600 MM DIA	Meter	784	784	784	784	784	784	784	784	784	784
	700 MM DIA	Meter	914	914	914	914	914	914	914	914	914	914
	800 MM DIA	Meter	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039
	900 MM DIA	Meter	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222
	1000 MM DIA	Meter	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
	1100 MM DIA	Meter	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587
	1200 MM DIA	Meter	1776	1776	1776	1776	1776	1776	1776	1776	1776	1776
3	Conveyance of Bar Wrapped Steel Cylindrical (BWSC) pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)											
	250 MM DIA	Per KM/M	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	300 MM DIA	Per KM/M	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	350 MM DIA	Per KM/M	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
	400 MM DIA	Per KM/M	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	450 MM DIA	Per KM/M	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	500 MM DIA	Per KM/M	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	600 MM DIA	Per KM/M	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
	700 MM DIA	Per KM/M	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
	800 MM DIA	Per KM/M	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	900 MM DIA	Per KM/M	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
	1000 MM DIA	Per KM/M	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
	1100 MM DIA	Per KM/M	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93
	1200 MM DIA	Per KM/M	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68

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

HR Plates - Rs.41, 500/- per MT (Basic +CED+ST & freight) Wire rods - Rs.40, 000/- per MT (Basic +CED+ST & freight)

Cement Cost Rs. 5,000/-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 meter) due to change in the cost of HR Plate = (H2-H1)/1000 X Wh.

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

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

H1 = Rs. 41,500/- H2 = Cost of HR Plate (Rs. per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 40,500/- W2 = Cost of Wire rods (Rs. per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 5,000/- 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 meter of pipe. Wc= Weight of Cement required (Kg.) per Meter of pipe.

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

Note: 1) The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

2) The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl.No.	Description	Unit	Thicknes s in mm	Rate (Rs.)
1	2	3	4	5
1	Manufacture, supply and delivery of M.S Spirally Welded Pipes conforming to is 3589/2001 including in lining with cement mortar (1:2) 15mm thick using 4 numbers of 6mm dia M.S. Rings at each end of the pipe and out coating with cement mortar (1:3) 30mm thick by shortcreting or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labour charges, transportation to anywhere in AP, but excluding taxes & duties, etc.			
	500 mm dia	Meter	8.00	7764
	600 mm dia	Meter	8.00	9265
	700 mm dia	Meter	8.00	10818
	700 mm dia	Meter	10.00	13379
	800 mm dia	Meter	8.00	12429
	800 mm dia	Meter	10.00	14187
	800 mm dia	Meter	12.00	16736
	900 mm dia		8.00	13872
	900 mm dia	Meter	10.00	15849
	900 mm dia	Meter	12.00	17830
	1000 mm dia	Meter	8.00	15594
	1000 mm dia	Meter	10.00	17782
	1000 mm dia	Meter	12.00	19886
	1000 mm dia	Meter	14.00	22905
	1100 mm dia	Meter	8.00	18042
	1100 mm dia	Meter	10.00	20928
	1100 mm dia	Meter	12.00	23339
	1100 mm dia	Meter	14.00	26901
	1100 mm dia	Meter	16.00	30476
	1200 mm dia	Meter	8.00	20208
	1200 mm dia	Meter	10.00	23608
	1200 mm dia	Meter	12.00	26256
	1200 mm dia	Meter	14.00	28899
	1200 mm dia	Meter	16.00	32729
	1200 mm dia	Meter	18.00	36571
	1300 mm dia	Meter	8.00	22412

	1300 mm dia	Meter	10.00	25469
	1300 mm dia	Meter	12.00	28628
	1300 mm dia	Meter	14.00	31481
	1300 MM DIA	Meter	16.00	34348
	1300 MM DIA	Meter	18.00	38367
	1300 MM DIA	Meter	20.00	42398
	1400 MM DIA	Meter	8.00	24072
	1400 MM DIA	Meter	10.00	27355
	1400 MM DIA	Meter	12.00	30502
	1400 MM DIA	Meter	14.00	33576
	1400 MM DIA	Meter	16.00	36654
	1400 MM DIA	Meter	18.00	40936
	1400 MM DIA	Meter	20.00	45229
	1400 MM DIA	Meter	22.00	49533
	1500 MM DIA	Meter	8.00	25745
	1500 MM DIA	Meter	10.00	29256
	1500 MM DIA	Meter	12.00	32654
	1500 MM DIA	Meter	14.00	35941
	1500 MM DIA	Meter	16.00	39238
	1500 MM DIA	Meter	18.00	42537
	1500 MM DIA	Meter	20.00	46983
	1500 MM DIA	Meter	22.00	51441
	1500 MM DIA	Meter	24.00	55911
	1600 MM DIA	Meter	8.00	27454
	1600 MM DIA	Meter	10.00	31035
	1600 MM DIA	Meter	12.00	34528
	1600 MM DIA	Meter	14.00	38031
	1600 MM DIA	Meter	16.00	41542
	1600 MM DIA	Meter	18.00	45061
	1600 MM DIA	Meter	20.00	49763
	1600 MM DIA	Meter	22.00	54479
	1600 MM DIA	Meter	24.00	59205
	1600 MM DIA	Meter	26.00	63941
	1700 MM DIA	Meter	8.00	29044
	1700 MM DIA	Meter	10.00	32969
	1700 MM DIA	Meter	12.00	36677
	1700 MM DIA	Meter	14.00	40397
	1700 MM DIA	Meter	16.00	44121
	1700 MM DIA	Meter	18.00	47857
	1700 MM DIA	Meter	20.00	52848
	1700 MM DIA	Meter	22.00	57855
	1700 MM DIA	Meter	24.00	62867
	1700 MM DIA	Meter	26.00	67897
	1700 MM DIA	Meter	28.00	72933
	1800 MM DIA	Meter	8.00	30781

	1800 MM DIA	Meter	10.00	34903
	1800 MM DIA	Meter	12.00	38828
	1800 MM DIA	Meter	14.00	42765
	1800 MM DIA	Meter	16.00	46702
	1800 MM DIA	Meter	18.00	50656
	1800 MM DIA	Meter	20.00	54615
	1800 MM DIA	Meter	22.00	59774
	1800 MM DIA	Meter	24.00	64944
	1800 MM DIA	Meter	26.00	70122
	1800 MM DIA	Meter	28.00	75315
	1800 MM DIA	Meter	30.00	80516
	1900 MM DIA	Meter	8.00	31399
	1900 MM DIA	Meter	10.00	36563
	1900 MM DIA	Meter	12.00	40699
	1900 MM DIA	Meter	14.00	44850
	1900 MM DIA	Meter	16.00	49008
	1900 MM DIA	Meter	18.00	53177
	1900 MM DIA	Meter	20.00	57348
	1900 MM DIA	Meter	22.00	62759
	1900 MM DIA	Meter	24.00	68182
	1900 MM DIA	Meter	26.00	73617
	1900 MM DIA	Meter	28.00	79061
	1900 MM DIA	Meter	30.00	84518
	1900 MM DIA	Meter	32.00	89982
	2000 MM DIA	Meter	8.00	32833
	2000 MM DIA	Meter	10.00	38223
	2000 MM DIA	Meter	12.00	42578
	2000 MM DIA	Meter	14.00	46943
	2000 MM DIA	Meter	16.00	51315
	2000 MM DIA	Meter	18.00	55700
	2000 MM DIA	Meter	20.00	60086
	2000 MM DIA	Meter	22.00	64445
	2000 MM DIA	Meter	24.00	70000
	2000 MM DIA	Meter	26.00	75564
	2000 MM DIA	Meter	28.00	81143
	2000 MM DIA	Meter	30.00	86729
	2000 MM DIA	Meter	32.00	92327
	2000 MM DIA	Meter	34.00	97935
	2100 MM DIA	Meter	8.00	34495
	2100 MM DIA	Meter	10.00	40156
	2100 MM DIA	Meter	12.00	44727
	2100 MM DIA	Meter	14.00	49295
	2100 MM DIA	Meter	16.00	53895
	2100 MM DIA	Meter	18.00	58493
	2100 MM DIA	Meter	20.00	63098
	2100 MM DIA	Meter	22.00	67716
	2100 MM DIA	Meter	24.00	73551

	2100 MM DIA	Meter	26.00	79396
	2100 MM DIA	Meter	28.00	85254
	2100 MM DIA	Meter	30.00	91119
	2100 MM DIA	Meter	32.00	96998
	2100 MM DIA	Meter	34.00	102886
	2100 MM DIA	Meter	36.00	108784
	2200 MM DIA	Meter	8.00	35926
	2200 MM DIA	Meter	10.00	41816
	2200 MM DIA	Meter	12.00	46605
	2200 MM DIA	Meter	14.00	51397
	2200 MM DIA	Meter	16.00	56204
	2200 MM DIA	Meter	18.00	61013
	2200 MM DIA	Meter	20.00	65836
	2200 MM DIA	Meter	22.00	70670
	2200 MM DIA	Meter	26.00	82851
	2200 MM DIA	Meter	28.00	88956
	2200 MM DIA	Meter	30.00	95072
	2200 MM DIA	Meter	32.00	101198
	2200 MM DIA	Meter	34.00	107338
	2200 MM DIA	Meter	36.00	113487
	2200 MM DIA	Meter	38.00	119647
	2300 MM DIA	Meter	10.00	39411
	2300 MM DIA	Meter	12.00	48753
	2300 MM DIA	Meter	16.00	57608
	2300 MM DIA	Meter	18.00	63809
	2300 MM DIA	Meter	20.00	68848
	2300 MM DIA	Meter	22.00	73892
	2300 MM DIA	Meter	26.00	84105
	2300 MM DIA	Meter	28.00	90750
	2300 MM DIA	Meter	30.00	97451
	2300 MM DIA	Meter	32.00	104060
	2300 MM DIA	Meter	34.00	110761
	2300 MM DIA	Meter	36.00	117462
	2300 MM DIA	Meter	38.00	124219
	2300 MM DIA	Meter	40.00	130930
	2400MM DIA	Meter	10.00	45409
	2400 MM DIA	Meter	12.00	50627
	2400 MM DIA	Meter	14.00	56784
	2400 MM DIA	Meter	16.00	62022
	2400 MM DIA	Meter	18.00	67263
	2400 MM DIA	Meter	20.00	72520
	2400 MM DIA	Meter	22.00	78626
	2400 MM DIA	Meter	26.00	83688
	2400 MM DIA	Meter	28.00	89343
	2400 MM DIA	Meter	30.00	95007
	2400 MM DIA	Meter	32.00	100680
	2400 MM DIA	Meter	34.00	106360

	2400 MM DIA	Meter	36.00	112054
	2400 MM DIA	Meter	38.00	117753
	2400 MM DIA	Meter	40.00	117198
	2400 MM DIA	Meter	42.00	122911
	2500 MM DIA	Meter	10.00	47345
	2500 MM DIA	Meter	14.00	58220
	2500 MM DIA	Meter	16.00	63670
	2500 MM DIA	Meter	18.00	69131
	2500 MM DIA	Meter	20.00	74597
	2500 MM DIA	Meter	22.00	80076
	2500 MM DIA	Meter	28.00	100759
	2500 MM DIA	Meter	30.00	107678
	2500 MM DIA	Meter	34.00	117342
	2500 MM DIA	Meter	36.00	124826
	2500 MM DIA	Meter	38.00	132365
	2500 MM DIA	Meter	40.00	139915
	2500 MM DIA	Meter	42.00	147510
	2500 MM DIA	Meter	44.00	155051
	2500 MM DIA	Meter	46.00	162647
	2600 MM DIA	Meter	12.00	49124
	2600 MM DIA	Meter	14.00	60310
	2600 MM DIA	Meter	16.00	65979
	2600 MM DIA	Meter	18.00	71654
	2600 MM DIA	Meter	20.00	77338
	2600 MM DIA	Meter	22.00	83029
	2600 MM DIA	Meter	32.00	118808
	2600 MM DIA	Meter	34.00	125997
	2600 MM DIA	Meter	36.00	133194
	2600 MM DIA	Meter	38.00	140403
	2600 MM DIA	Meter	40.00	147623
	2600 MM DIA	Meter	42.00	154855
	2600 MM DIA	Meter	44.00	162096
	2600 MM DIA	Meter	46.00	169348
	2600 MM DIA	Meter	48.00	176612
2	Cost of Laying, Jointing, Hydrostatic Filed Test Pressure, Including Cost of Site Welding, Jointing Materials And Cost of Transportation of Water Including Emptying Pipe Line After Completion Of Field Testing			
	400 MM DIA	Meter		564
	500 MM DIA	Meter		702
	600 MM DIA	Meter		863
	700 MM DIA	Meter		1002
	800 MM DIA	Meter		1143
	900 MM DIA	Meter		1344
	1000 MM DIA	Meter		1484
	1100 MM DIA	Meter		1745
	1200 MM DIA	Meter		1955
	1300 MM DIA	Meter		2247

	1400 MM DIA	Meter		2586
	1500 MM DIA	Meter		2925
	1600 MM DIA	Meter		3084
	1700 MM DIA	Meter		3261
	1800 MM DIA	Meter		3688
	1900 MM DIA	Meter		4298
	2000 MM DIA	Meter		5397
	2100 MM DIA	Meter		6175
	2200 MM DIA	Meter		6936
	2300 MM DIA	Meter		8462
	2400 MM DIA	Meter		10348
	2500 MM DIA	Meter		12018
	2600 MM DIA	Meter		13529

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

MS Plates = Rs 36,000/- Per MT.

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

Revised Cost = Cost of the pipe as per the above table + R_1

$R_1 = (M_2 - M_1) / 1000 \times W_m$

$M_1 = \text{Rs } 36000/-$

$M_2 = \text{Cost of MS Plates at the time of preparation of estimate including all taxes and freight}$

$W_m = \text{Weight of MS Plates in Kgs per meter of pipe}$

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

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

Sl.No	Description	4.0 kg/ sqcm
1	2	4
	Manufacture, Supply, & Delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to anywhere in A.P, excluding excise duty, sale tax and specials etc., complete. (Supply upto 90 mm dia in coil & above 90 mm dia straight lengths in 6 m.)	
	Rate per Meter	
	OD 40 mm	37
	OD 50 mm	53
	OD 63 mm	73
	OD 75 mm	100
	OD 90 mm	144
	OD 110 mm	216
	OD 125 mm	277
	OD 140 mm	343
	OD 160 mm	450
	OD 180 mm	567
	OD 200 mm	694
	OD 225 mm	880
	OD 250 mm	1089
	OD 280 mm	1356
	OD 315 mm	1725
	OD 355 mm	2249
	OD 400 mm	2915
	OD 450 mm	3705
	OD 500 mm	4551
	OD 560 mm	5632
	OD 630 mm	7124
	OD 710 mm	9052
	OD 800 mm	11457
	OD 900 mm	14517
	OD 1000 mm	17878

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

Reliance Industries Resin cost adopted for the above rates are

For PE - 80 grade Rs.1,01,250/- 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:

$P_2 = P_1 + (A_2 - A_1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P_2 = P_1 - (A_1 - A_2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

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

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

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

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

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

Note: The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No	Description	6.0 kg/ sqcm	8.0 kg/ sqcm	10.0 kg/ sqcm	12.5 kg/ sqcm	16.0 kg/ sqcm
1	2	3	4	5	6	7
I	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm dia in coil & above 90 mm dia straight length in 6 m.)					
	Rate per Meter					
	OD 20 mm					23
	OD 25 mm					39
	OD 32 mm			41	45	63
	OD 40 mm		52	61	70	97
	OD 50 mm	63	78	95	109	150
	OD 63 mm	95	121	146	170	235
	OD 75 mm	135	172	206	246	333
	OD 90 mm	191	245	293	351	482
	OD 110 mm	288	365	435	534	722
	OD 125 mm	367	471	566	708	930
	OD 140 mm	461	589	709	895	1169
	OD 160 mm	603	768	923	1157	1524
	OD 180 mm	759	971	1168	1472	1921
	OD 200 mm	939	1201	1440	1829	2370
	OD 225 mm	1213	1550	1865	2298	2999
	OD 250 mm	1493	1916	2303	2851	3703
	OD 280 mm	1870	2398	2881	3561	4647
	OD 315 mm	2371	3037	3649	4491	5875
	OD 355 mm	2975	3804	4576	5521	7506
	OD 400 mm	3919	5005	6007	7864	9689
	OD 450 mm	4867	6240	7504	9943	12193
	OD 500 mm	6019	7694	9256	12281	14684
	OD 560 mm	6976	8925	10667	13714	
	OD 630 mm	8795	11292	13513	16211	
	OD 710 mm	11188	14309	17164		

	OD 800 mm	14198	18168	21860		
	OD 900 mm	17986	22999			
	OD 1000 mm	22180				

Note:-

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

Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.1,02,080/- per MT. (Excluding CED&ST)

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

price variation formula as follows:

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

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

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

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

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

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

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

16(II) HDPE PIPES –(PE –100 Grade) SEWER LINES FOR THE YEAR 2016-17

Sl. No	Description	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm	12.5 kg/sqcm	16.0 kg/sqcm
1	2	3	4	5	6	7
I	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 14333 - 2000 for using under ground drainage and sewerage systems including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm diain coil & above 90 mm diastraight length in 6 m or 12 m.)					
	Rate per Meter					
	OD 63mm	104	132	157	187	224
	OD 75 mm	147	188	224	267	318
	OD 90 mm	210	268	319	379	459
	OD 110 mm	302	382	456	546	652
	OD 125 mm	386	493	590	699	844
	OD 140 mm	483	614	739	880	1059
	OD 160 mm	629	802	964	1128	1379
	OD 180 mm	792	1017	1219	1449	1744
	OD 200 mm	982	1253	1503	1794	2150
	OD 225 mm	1238	1581	1902	2261	2724
	OD 250 mm	1527	1956	2346	2793	3355
	OD 280 mm	1909	2445	2925	3510	4213
	OD 315 mm	2417	3096	3755	4429	5327
	OD 355 mm	3062	3922	4719	5631	6758
	OD 400 mm	4049	5181	6221	7417	8895
	OD 450 mm	5111	6555	7878	9372	
	OD 500 mm	6317	8081	9716	11583	
	OD 560 mm	7898	10127	12191		
	OD 630 mm	10000	12819	15402		
	OD 710 mm	12969	16613			
	OD 800 mm	16453				
	OD 900 mm	20839				
	OD 1000 mm	25746				

Note:-

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

Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.1,02,080/- per MT. (Excluding CED&ST)

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

price variation formula as follows:

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

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

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

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

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

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

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

	Manufacture, Supply, & Delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to anywhere in A.P. Excluding excise duty, sale tax and specials etc., complete	
I (a)	PIPE ENDS LONG NECK	Rate per Each
	OD 50 mm	72
	OD 63 mm	91
	OD 75 mm	109
	OD 90 mm	151
	OD 110 mm	210
	OD 125 mm	377
	OD 140 mm	353
	OD 160 mm	493
	OD 180 mm	752
	OD 200 mm	967
	OD 225 mm	1110
	OD 250 mm	1300
	OD 280 mm	1452
	OD 315 mm	1675
	OD 355 mm	3501
	OD 400 mm	4666
	OD 450 mm	7763
	OD 500 mm	8640
(b)	MS FLANGES	Rate per Each
	OD 50 mm	88
	OD 63 mm	111
	OD 75 mm	141
	OD 90 mm	151
	OD 110 mm	160
	OD 125 mm	219
	OD 140 mm	237
	OD 160 mm	312
	OD 180 mm	439
	OD 200 mm	569
	OD 225 mm	713
	OD 250 mm	841
	OD 280 mm	954
	OD 315 mm	1122
	OD 355 mm	1900

	OD 400 mm	2356
	OD 450 mm	3076
	OD 500 mm	3522
(c)	END CAPS	Rate per Each
	OD 50 mm	52
	OD 63 mm	63
	OD 75 mm	78
	OD 90 mm	104
	OD 110 mm	119
	OD 125 mm	165
	OD 140 mm	192
	OD 160 mm	294
	OD 180 mm	477
	OD 200 mm	521
	OD 225 mm	543
	OD 250 mm	773
	OD 280 mm	791
	OD 315 mm	1081
	OD 355 mm	1669
	OD 400 mm	2915
	OD 450 mm	4688
	OD 500 mm	8640
(d)	REDUCERS	Rate per Each
	OD 50 mm x 63 mm	72
	OD 63 mm x 75 mm	104
	OD 75 mm x 90 mm	171
	OD 90 mm x 110 mm	236
	OD 110 mm x 125 mm	360
	OD 125 mm x 140 mm	498
	OD 140 mm x 160 mm	695
	OD 160 mm x 180 mm	962
	OD 180 mm x 200 mm	1243
	OD 200 mm x 225 mm	1526
	OD 225 mm x 250 mm	2080
	OD 250 mm x 280 mm	2955
	OD 280 mm x 315 mm	4178
	OD 315 mm x 355 mm	4792
	OD 355 mm x 400 mm	6761

	OD 400 mm x 450 mm	7014
	OD 450 mm x 500 mm	8993
(e)	TEES	Rate per Each
	OD 50 mm	100
	OD 63 mm	159
	OD 75 mm	192
	OD 90 mm	338
	OD 110 mm	400
	OD 125 mm	602
	OD 140 mm	830
	OD 160 mm	1429
	OD 180 mm	1937
	OD 200 mm	2668
	OD 225 mm	3788
	OD 250 mm	5186
	OD 280 mm	7262
	OD 315 mm	10350
	OD 355 mm	14759
	OD 400 mm	21618
	OD 450 mm	30707
	OD 500 mm	42173
(f)	BENDS	Rate per Each
	OD 50 mm	63
	OD 63 mm	140
	OD 75 mm	182
	OD 90 mm	311
	OD 110 mm	410
	OD 125 mm	605
	OD 140 mm	797
	OD 160 mm	1189
	OD 180 mm	1706
	OD 200 mm	2311
	OD 225 mm	3278
	OD 250 mm	4493
	OD 280 mm	6478
	OD 315 mm	8960
	OD 355 mm	12420
	OD 400 mm	18735

	OD 450 mm	27542
	OD 500 mm	37339
II	Providing and Fixing electro Fusion <u>Ferrule Tapping saddle</u> manufactured from virgin resin of PE-80/PE-100 having blue/black colour using food grade compounded raw material with quality assurance certificate from quality agencies like CIPET etc. For usage in drinking water system and having working pressure of 10 bar. The cost shall include testing of all materials, labour all taxes (central & state), inspection charges, transportation upto site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.	
	SIZE	Rate Each
	(Main pipe outer diameter in mm & Tapping size in Inches)	Rs.
	63x1/2"	916
	63 x3/4"	916
	63 x1"	916
	63 x1/2"	916
	75 x1/2"	916
	75 x3/4"	916
	75 x1	916
	90 x1/2"	916
	90 x3/4"	916
	90 x1"	916
	90 x 1 1/4"	1190
	90 x 1 1/2"	1190
	90 x2"	1190
	110x1/2"	916
	110 x3/4"	916
	110 x1"	916
	110 x 1 1/4"	1190
	110x1 1/2"	1190
	110x2"	1190
	160 x1/2"	916
	160 x3/4"	916
	160 x1"	916
	160 x 1 1/4"	1299
	160 x 1 1/2"	1299
	160 x 2"	1299
	200 x 1/2"	1295

	200 x 3/4"	1295
	200 x 1"	1295
	200 x 1 1/4"	1872
	200 x 2"	1872
	250 x 1/2"	1295
	250 x 3/4"	1295
	250 x 1"	1295
	250 x 1 1/4"	1872
	250 x 1 1/2"	1872
	250 x 2"	1872
	315 x 1/2"	1542
	315 x 3/4"	1542
	315 x 1"	1542
	315 x 1 1/4"	1966
	315 x 1 1/2"	1966
	315 x 2"	1966

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

Sl. No.	Description	TEST PRESSURE		
		4.0 Kgs/cm ²	6 Kgs/cm ²	10 Kgs/cm ²
1	2	4	5	6
1	Manufacture, Supply and Delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (3 rd revision) with bell ends (Socket) as per specification in light Grey/Natural Ivory Grey/ Any other Color (except White) inclusive of transportation to the sub-divisional stores anywhere in AP excluding Excise duty and Sales Tax etc.			
	DIA IN MM Rate/Meter	Rs.	Rs.	Rs.
	20			15
	25			22
	32			33
	40		31	51
	50		47	79
	63	52	75	113
	75	76	103	164
	90	104	149	232
	110	151	215	346
	125	197	274	453
	140	246	354	561
	160	324	459	735
	180	413	592	943
	200	503	719	1147
	225	670	968	1540
	250	777	1187	1872
	280	1020	1500	2371
	315	1291	1884	2993
	355	1697	2463	
	400	2140	3134	

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.68,825/- 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:

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

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

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

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.

Note: The above formula for calculation of revised cost to be used for preparation of Estimates only

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

Code No	Description	
1	2	4
	Manufacture, Supply, & Delivery of unplasticized Non-pressure polyvinyl chloride(PVC-U) pipes of dark (any shade of brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) <u>with solvent cement jointing</u> as per specification inclusive of transportation to the sub-divisional stores any where in A.P, excluding Central Excise Duty, Cess, & VAT etc.,	Rates 2016-17
	Rate per Meter	Rs.
	Pipe Series (S25)	
	OD 160 mm	270
	OD 200 mm	411
	OD 250mm	637
	OD 315 mm	1005
	Pipe Series (S20)	
	OD 125 mm	209
	OD 160 mm	335
	OD 200 mm	508
	OD 250mm	791
	OD 315 mm	1242
	Pipe Series (S16.5)	
	OD 110 mm	184
	OD 125 mm	248
	OD 160 mm	388
	OD 200 mm	603
	OD 250mm	935
	OD 315 mm	1477

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.68,825/- 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:

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

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

P2 = Revised pipe price in Rs. Per Meter

P1 = Existing pipe price in Rs. Per Meter

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.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Code No	Description	
1	2	4
	Manufacture, supply, & delivery of un-plasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage & sewerage system conforming to IS 15328/2003) with <u>Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes) as per specification inclusive of transportation to the Sub-Divisional stores any where in A.P, excluding Central Excise Duty, Cess, & VAT etc.,	Rates 2016-17
	Rate per Meter	Rs.
	Pipe Series (S25)	
	OD 160 mm	289
	OD 200 mm	438
	OD 250mm	681
	OD 315 mm	1071
	Pipe Series (S20)	
	OD 125 mm	225
	OD 160 mm	355
	OD 200 mm	540
	OD 250mm	841
	OD 315 mm	1321
	Pipe Series (S16.5)	
	OD 110 mm	196
	OD 125 mm	264
	OD 160 mm	415
	OD 200 mm	638
	OD 250mm	993
	OD 315 mm	1567

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.68,825/- 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:

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

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

P2 = Revised pipe price in Rs. Per Meter

P1 = Existing pipe price in Rs. Per Meter

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.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No.	Description	Unit	S.S. Rates for 2016-17		
1	2	3	4	5	6
I	Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/1989 (third revision) with amdt. No: 1 & 2 in standard lengths of 3.66 m, 4 m, 4.5m, 5 m, 5.5 m & 6 m and details given below, suitable either for lead jointing or rubber gasket (push on) jointing at purchasers option at ex-factory excluding transportation, taxes & duties.		LA Class (Rs)	A Class (Rs)	B Class (Rs)
	Nominal dia (in MM)				
	80	Rmt	736	800	858
	100	Rmt	912	1004	1071
	125	Rmt	1176	1284	1382
	150	Rmt	1416	1552	1672
	200	Rmt	2072	2248	2432
	250	Rmt	2792	3040	3289
	300	Rmt	3601	3936	4265
	350	Rmt	4536	4921	5336
	400	Rmt	5520	6032	6512
	450	Rmt	6656	7312	7888
	500	Rmt	7792	8489	9185
	600	Rmt	10384	11336	12280
	700	Rmt	13401	14641	15816
	750	Rmt	15008	16409	17801
	800	Rmt	16801	18304	19800
	900	Rmt	20464	22328	24193
	1000	Rmt	24585	26856	29025
II	Conveyance of Centrifugally Cast (Spun) Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)		Class		
	SIZE IN MM	UNIT	LA	A	B
	80	Per KM/RMT	0.24	0.24	0.24
	100	Per KM/RMT	0.24	0.24	0.24
	125	Per KM/RMT	0.36	0.36	0.36
	150	Per KM/RMT	0.36	0.36	0.36
	200	Per KM/RMT	0.61	0.61	0.61

250	Per KM/RMT	0.73	0.73	0.73
300	Per KM/RMT	0.97	0.97	0.97
350	Per KM/RMT	1.33	1.33	1.33
400	Per KM/RMT	1.57	1.57	1.57
450	Per KM/RMT	1.82	1.82	1.82
500	Per KM/RMT	2.18	2.18	2.18
600	Per KM/RMT	2.18	2.18	2.18
700	Per KM/RMT	2.18	2.18	2.18
750	Per KM/RMT	3.63	3.63	3.63
800	Per KM/RMT	6.17	6.17	6.17
900	Per KM/RMT	6.17	6.17	6.17
1000	Per KM/RMT	6.17	6.17	6.17

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 Meter.

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

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

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

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

22.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2016-17

Sl. No.	Description	Unit	S.S. Rate for 2016-17	
1	2	3	4	5
1	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with <u>Socket Spigot ends</u> conforming to IS.: 8329/2000 in standard working lengths of 4, 5 5.5 & 6 meter for classification K9 & K7 suitable for push-on-joint (rubber gasket d jointing) with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	Nominal Dia in mm	Rmt	K7	K9
	100	Rmt	791	941
	150	Rmt	1119	1388
	200	Rmt	1525	1852
	250	Rmt	2049	2430
	300	Rmt	2661	3110
	350	Rmt	3353	3878
	400	Rmt	4073	4678
	450	Rmt	4905	5598
	500	Rmt	5850	6513
	600	Rmt	7788	8590
	700	Rmt	10087	11116
	750	Rmt	11306	12475
	800	Rmt	12487	13763
	900	Rmt	15239	16792
	1000	Rmt	18056	19897
	1100	Rmt		21114
	1200	Rmt		24700
2	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage <u>with plain ends</u> conforming to IS:8329/2000in standard working lengths of 4, 5, 5.5 & 6 meter for classification K9 & K7 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	Nominal Dia in mm		K7	K9
	100	Rmt	669	861
	150	Rmt	989	1262
	200	Rmt	1375	1716
	250	Rmt	1789	2280
	300	Rmt	2387	2915
	350	Rmt	2998	3622
	400	Rmt	3631	4368
	450	Rmt	4355	5160

	500	Rmt	5188	6173
	600	Rmt	6873	7953
	700	Rmt	9128	10091
	750	Rmt	10214	11306
	800	Rmt	11289	12483
	900	Rmt	13651	15094
	1000	Rmt	16229	17945
	1100	Rmt		18939
	1200	Rmt		22054
3	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 & duties.			
	Nominal Dia in mm		1.0 Mt. Length	2.0 Mt. Length
	100	Each	3603	4726
	150	Each	5085	6718
	200	Each	6721	8946
	250	Each	8770	11741
	300	Each	10954	14709
	350	Each	17268	21923
	400	Each	21423	27045
	450	Each	25882	32515
	500	Each	31375	39160
	600	Each	44450	54698
	700	Each	52947	65954
	800	Each	65231	81342
	900	Each	77741	97211
	1000	Each	99872	123035
	1100	Each	120935	147180
			3.0 Mt. Length	4.0 Mt. Length
	100	Each	5824	6339
	150	Each	8301	9163
	200	Each	11078	12396
	250	Each	14578	16372
	300	Each	18268	20638
	350	Each	26360	28726
	400	Each	32493	34914
	450	Each	38942	41708
	500	Each	46689	49851
	600	Each	64609	68313

	700	Each	78569	83635	
	800	Each	96946	103294	
	900	Each	116061	123950	
	1000	Each	145475	153757	
	1100	Each	173124	204955	
			5.0 Mt. Length		
	100	Each	7387		
	150	Each	10708		
	200	Each	14513		
	250	Each	19192		
	300	Each	24209		
	350	Each	33156		
	400	Each	40262		
	450	Each	48017		
	500	Each	56179		
	600	Each	78043		
	700	Each	95988		
	800	Each	118573		
	900	Each	146828		
	1000	Each	175720		
	1100	Each	220220		
4	Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes		Class		WELDED DOUBLE FLANGED PIPES
	SIZE IN MM	UNIT	K7	K9	K9
	100	Per KM/RMT	0.22	0.22	0.33
	150	Per KM/RMT	0.33	0.33	0.44
	200	Per KM/RMT	0.33	0.44	0.66
	250	Per KM/RMT	0.44	0.55	0.88
	300	Per KM/RMT	0.66	0.66	1.10
	350	Per KM/RMT	0.77	0.88	1.32
	400	Per KM/RMT	0.88	0.99	1.54
	450	Per KM/RMT	1.10	1.21	1.87
	500	Per KM/RMT	1.32	1.43	2.20
	600	Per KM/RMT	1.87	1.87	2.86
	700	Per KM/RMT	2.75	2.75	4.18
	750	Per KM/RMT	3.30	3.30	5.06
	800	Per KM/RMT	5.61	5.61	8.36
	900	Per KM/RMT	5.61	5.61	8.36
	1000	Per KM/RMT	5.61	5.61	8.36
	1100	Per KM/RMT	5.61	5.61	-
	1200	Per KM/RMT	6.00	6.00	
5	Supply and Delivery of Polyethylene				

	(PE)Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.			
	DIA IN MM			
	100 MM DIA		RMT	41
	150 MM DIA		RMT	50
	200 MM DIA		RMT	64
	250 MM DIA		RMT	74
	300 MM DIA		RMT	81
	350 MM DIA		RMT	91
	400 MM DIA		RMT	127
	450 MM DIA		RMT	127
	500 MM DIA		RMT	154
	600 MM DIA		RMT	154
	700 MM DIA		RMT	200
	750 MM DIA		RMT	200
	800 MM DIA		RMT	200
	900 MM DIA		RMT	227
	1000 MM DIA		RMT	227
	1100 MM DIA		RMT	227
6	Additional price for HAC(high alumina cement motar lining)			
	DIA IN MM			
	100 MM DIA		RMT	61
	150 MM DIA		RMT	80
	200 MM DIA		RMT	98
	250 MM DIA		RMT	117
	300 MM DIA		RMT	125
	350 MM DIA		RMT	143
	400 MM DIA		RMT	196
	450 MM DIA		RMT	196
	500 MM DIA		RMT	242
	600 MM DIA		RMT	242
	700 MM DIA		RMT	310
	750 MM DIA		RMT	310
	800 MM DIA		RMT	310
	900 MM DIA		RMT	354
	1000 MM DIA		RMT	354
	1100 MM DIA		RMT	354
	1200 MM DIA		RMT	354

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

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

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

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

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

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

R2 = Price of Pig Iron(Rs per MT excluding CED&ST)) at the time of preparation of estimate.
 R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation
 of SoR =Rs.22,000/-

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No.	Description	Unit	
1	2	3	
	Centrifugally cast (spun) Ductile Iron Fittings conforming to IS:9523/2000 having dimensions as per table. The rates mentioned here under are for fittings, zinc coated externally with inside mortar lining (with finishing as per class 13/IS 9523/2000) (ex-works) Excluding Transportation, Taxes and Duties etc.		
I	DI double socket branch flange Tee		
	Upto 500 x 500 mm dia	Kg	107
	Above 500 x 500 mm dia	Kg	120
II	DI All Socket Tees		
	Upto 300 x 300 mm dia	Kg	107
	Above 300 x 300 mm dia	Kg	120
III	DI Double socket Tapers (Reducer)		
	Upto 500 x 450 mm dia	Kg	107
	Above 500 x 450 mm dia	Kg	120
IV	DI Flanged Socket		
	Upto 500 mm dia	Kg	107
	Above 500 mm dia	Kg	120
V	DI Flanged Spigot		
	Upto 500 mm dia	Kg	107
	Above 500 mm dia	Kg	120
VI	DI Double Socket Duck Foot Bend		
	Upto 300mm dia	Kg	107
	Above 300mm dia	Kg	120
VII	DI Double Flange Duck/Foot bend		
	Upto 300 mm dia	Kg	107
	Above 300 mm dia	Kg	120
VIII	DI All socket Cross.		
	Upto 300 x 300 mm dia	Kg	107
	Above 300 x 300 mm dia	Kg	120
IX	DI All Flange Tee		

	Upto 500 x 500 mm dia	Kg	107
	Above 500 x 500 mm dia	Kg	120
X	DI All Flange Cross		
	Upto 300 x 300 mm dia	Kg	107
	Above 300 x 300 mm dia	Kg	120
XI	DI Double Flange Reducer		
	Upto 500 x 450 mm dia	Kg	107
	Above 500 x 450 mm dia	Kg	120
XII	Blank Flange		
	Upto 500 mm dia	Kg	107
	Above 500 mm dia	Kg	120
XIII	Mechanical Joints		107
	Upto 300 mm dia	Kg	120
	Above 300 mm dia	Kg	
XIV	DI Double Socket Bends		107
	Upto 500mm dia	Kg	120
	Above 500 mm dia	Kg	
			107
XV	DI Double Flanged Bends		120
	Upto 500mm dia	Kg	107
	Above 500 mm dia	Kg	120

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No.	Description	Unit	S.S Rates For 2016-17
1	2	3	4
1	Manufacture as per BIS:12820/89 with S.B.R. Quality Rubber confirming to BIS: 5382/85, supply and delivery of Rubber Gaskets suitable for C.I/ D.I S/S pipes anywhere in A.P. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading & stacking but excluding central excise duty, sales tax, octroi and other Govt. Levies etc., complete.		
	80mm dia	Each	52
	100mm dia	Each	81
	125mm dia	Each	97
	150mm dia	Each	118
	200mm dia	Each	143
	250mm dia	Each	160
	300mm dia	Each	244
	350mm dia	Each	308
	400mm dia	Each	337
	450mm dia	Each	362
	500mm dia	Each	503
	600mm dia	Each	596
	700mm dia	Each	791
	750mm dia	Each	879
	800mm dia	Each	1054
	900mm dia	Each	1271
	1000mm dia	Each	1391

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, Transit risk and delivery any where in A.P. for the year 2015-16. Rs.
1	2	3	4
	Manufacture, Supply and Delivery of Cast Iron Pipes and Fittings (spls.) Conforming to IS. No. 7181/1986, 5531/1988, 3950/1979 and C.I.D Joints confirming to is No.8794/1988 at site of work anywhere in A.P. Including, loading, unloading, transportation to site of work stacking at site transit risk and package, excluding taxes and duties.	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	64

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

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

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

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

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

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

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

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

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

Sl. No.	Description	TEST PRESSURE				Additional charges for Flanged ended valves
		10 Kgs/cm ²	15 Kgs/cm ²	20 Kgs/cm ²	25 Kgs/cm ²	
1	2	3	4	5	6	7
1	Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc., complete.					
	DIA IN MM Rate/Each	Rs.	Rs.	Rs.	Rs.	
	100	64263	73904	81293	89419	
	150	97659	112308	123538	135892	
	200	104237	119871	131860	145045	
2	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves				

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

27. S o R FOR VALVES CONFORMING TO IS for normal usage 2016-17.

Sl.No.	Description	TEST PRESSURES	
1	2	3	4
1	Supply, Delivery of D.I double flanged Sluice Valves conforming to IS- 14846 (with up to date amendments, if any) including gear arrangements for the following dia. as per test pressure having Body, Bonnet, Dome, Stool cover, Wedge, Stuffing box, Gland, Thrust plate, Cap/Hand wheel with D.I; Stem, Body seat ring, Wedge facing ring, Bushes, Bolts, Nuts, Pinion and Pinion shaft with Stainless steel (IS 6603) ; Wedge nut, Shoe, Channel with Leaded Tin Bronze (IS 318); Gasket with Neoprene Rubber; Gland packing with Rubber; Gear, Gear housing with Cast Steel excluding all taxes and transportation, etc. complete.	PN 1.0 (MPa)	PN 1.6 (MPa)
	Rate/Each		
	DIA IN MM	Rs.	Rs.
	50	10800	13500
	100	12800	16000
	150	18800	23500
	200	24800	31000
	250	37800	47250
	300	57800	72250
	350	71800	89750
	400	122800	153500
	450	152800	191000
	500	191800	239750
	550	199800	249750
	600	245800	307250
	650	272800	341000
	700	472800	591000
	750	512800	641000
	800	612800	766000
	850	698800	873500
	900	795800	994750

	1000	1295800	1619750
	1100	1495800	1869750
	1200	1695800	2119750
2	Supply, Delivery of D,I double flanged short/Long body or Wafer Type pattern Butterfly Valves for the following dia. conforming to IS 13095 (with up to date amendments, if any) manually operated having Body, Disc with D.I; Shaft, Seating ring, internal fastenings with Stainless steel (IS: 6603); External bolting with Carbon steel; Seat with Nitrile or EPDM rubber; excluding transportation and all taxes, complete.	PN 2.5 (MPa)	
	Rate/Each Rs.		
	50	12800	
	100	14800	
	150	21800	
	200	39800	
	250	44800	
	300	51800	
	350	62800	
	400	91800	
	450	120800	
	500	172800	
	550	191800	
	600	212800	
	650	245800	
	700	298800	
	750	312800	
	800	335800	
	850	352800	
	900	398800	
	1000	512800	
	1100	612800	
	1200	812800	

3	Supply, Delivery of D.I Double Flanged Swing Check type Reflux valves (Non Return Valves) of following dia. conforming to IS- 5312 (Pts-1&2) (with amendments up to date, if any) having Body, Cover, Door, Bearing holder with D.I; Hinge pin, Door pin , Door suspension pin with Stainless Steel (IS 6603); Body seat ring , Door face ring, Bearing bushes, Plugs for hinge pin with Leaded Tin Bronze (IS 318); Bolts, Nuts with Carbon steel; Gaskets with Rubber; Hinges with Cast steel; excluding transportation and all taxes complete.	PN 1.0 (MPa)	PN 1.6 (MPa)
		Rate/Each	
	50	9800	12250
	100	13800	17250
	150	19800	24750
	200	26800	33500
	250	36800	46000
	300	56800	71000
	350	67800	84750
	400	81800	102250
	450	105800	132250
	500	174800	218500
	550	192800	241000
	600	232800	291000
4	Supply and Delivery of Flanged Resilient Seated C.I Air Relief Valves (Single/Double) of following dia. conforming to IS- 14845 (with amendments up to date, if any) having Body, Cover, Valve disc, Stuffing box, Valve guide, Cowl, Gland, Cap, Joint support ring, with C.I; Stem, Bolts, Nuts with Stainless Steel (IS 6603); Stem nut, Body seal ring, Float guide with Leaded tin bronze (IS 318); Gasket with rubber; Gland packing with Jute / Hemp; Float		

	with timber core and Vulcanite Coating; excluding transportation and all taxes complete.		
	DIA IN MM Rate/Each	PN 1.0 (MPa)	PN 1.6 (MPa)
	40	5800	7250
	50	8800	11000
	80	14800	18500
	100	21800	27250
	150	41800	52250
	200	61800	77250
5	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves	

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

**28. S o R FOR VALVES FOR HEAVY USAGE in WTPs, STPs, Pump houses,
Pumping Mains & ELSRs 2016-17.**

Sl. No.	Description	TEST PRESSURE			
		PN 10	PN 16		
1	2	3	4	5	6
1	Supply and delivery of "Resilient Seated Soft Sealing" Gate Valves (Sluice Valves) with Body and Bonnet of Ductile Iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 and Wedge fully Rubber Lined with food grade quality grade W270 grade EPDM, Replaceable Spindle Nut without gland packing with 3-O ring protection system on the Shaft and Seals of NBR. The Valves should be Vacuum tight and 100% leak proof with face to face dimensions as BS:5163 Type A/IS:14846. All the valves should be with fusion bonded Electrostatic Powder coating both inside and outside (Min 250 Microns)- RAL 5005 with Pocket Less Straight through body Passage conforming to Design standards of DIN-3202F4/BS:5163 Type A Flange drilling as per IS - 1538 excluding all taxes, duties and transportation	PN 1.0 (MPa)	PN 1.6 (MPa)	PN 2.5 (MPa)	
	DIA IN MM				
	A) Without By-Pass				
	50	6,972	6,972	15,405	
	80	10,500	10,500	18,993	
	100	10,800	11,779	21,534	
	150	16,800	18,546	35,919	
	200	21,800	27,250	60,582	
	250	27,800	34,750	89,985	
	300	51,800	64,514	1,45,959	
	350	71,800	89,750	4,27,121	
	400	91,800	1,14,750	4,34,440	
	B) With By-Pass				

	450	1,50,800	1,88,500		
	500	1,92,800	2,41,000		
	550	2,12,800	2,66,000		
	600	2,72,800	3,41,000	11,84,278	
	650	3,12,800	3,91,000		
	700	3,92,800	4,91,000		
2	Supply & Delivery of Tamper Proof DI Flanged Single Chamber Air Release Valves with body & cover made of Ductile Iron Grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 with Food Grade Epoxy Powder Coating(EP-P) (Min:250 Micron) inside and Outside of Color Blue RAL 5005. All internal parts such as Float, shell, Cove Bolts etc. made of Austenitic alloy steel of SS AISI 304/316 and DN 50 float of and other components with ABS/PTFE/EPDM/NBR and generally conforming to DIN/BIS/AWWA standards (or) combination Flange drilling as per IS - 1538 and exclusive of all taxes and transportation.	PN 1.0 (MPa)	PN 1.6 (MPa)	PN 2.5 (MPa)	
	DIA IN MM				
	25	3,800	4,750		
	40	6,800	8,500	48,991	
	50	9,800	12,250	48,991	
	80	16,800	21,000	50,794	
	100	21,800	27,250	68,198	
	150	41,800	52,250	82,508	
	200	60,489	60,489	91,962	
	300	98,800	1,23,500		

3	Supply delivery of Double Flanged Slant seat Swing Check Valve (NRV) with body and Disc of Ductile Iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 with fully encapsulated in Vulcanized EPDM rubber & Fusion bonded Electro Static epoxy powder coating inside and outside color Blue RAL 5005 with Min. Coating thickness of 250 microns. The EPDM rubber & Epoxy rubber & Epoxy powder should conform to W 270 standards (Drinking water application) and face to face dimensions as per EN 558-1 / DIN 3202-F6 / IS 5312 & Flange connections as per IS:1538 excluding all duties, taxes and transportation.	PN 1.0 (MPa)	PN 1.6 (MPa)	PN 2.5 (MPa)	
	DIA IN MM				
	a) Without By-Pass				
	80	12,285	13,514		
	100	16,800	21,000		
	150	24,800	31,000		
	200	29,800	37,250	1,52,344	
	250	39,800	49,750	1,85,024	
	300	49,800	62,250	2,25,246	
	b) With By-Pass				
	350	71,800	89,750		
	400	87,800	1,09,750		
	450	97,800	1,22,250		
	500	1,35,800	1,69,750		
	550	1,65,800	2,07,250		
	600	1,98,800	2,48,500		

4	Manufacture, Supply and delivery of DI D/F Tilting disc Swing Check Valves Slanted seated with maximum swing of 59 degree with metallic, corrosion proof and wear resistant seat faces, Body and Disc of ductile cast iron GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 Shafts of stainless steel, shaft bearing of zinc free bronze and Integral body seat face & disc face with nickel-chromium overlay welding and micro finished. All the inside and outside of the body is to be coated with double coating of food grade epoxy liquid lacquer (EP-F) with minimum thickness of 150 microns, color: RAL 5005 Blue face to face dimensions according to EN 558-1/14/DIN 3202-F4, Flange dimensions according to EN1092-2/IS 1538	PN 1.0 (MPa)	PN 1.6 (MPa)	PN 2.5 (MPa)	
	DIA IN MM				
	a) Without By-Pass				
	80	10,800	13,500	21,600	
	100	14,800	18,500	29,600	
	150	19,800	24,750	39,600	
	200	24,800	31,000	49,600	
	250	35,800	44,750	71,600	
	300	51,800	64,750	1,03,600	
	b) With By-Pass				
	350	61,800	77,250	1,23,600	
	400	94,800	1,18,500	1,89,600	
	450	1,22,800	1,53,500	2,45,600	
	500	1,35,800	1,69,750	2,71,600	
	550	1,52,800	1,91,000	3,05,600	
	600	1,87,800	2,34,750	3,75,600	
	650				

		2,25,800	2,82,250	4,51,600	
	700	2,75,800	3,43,200	5,51,600	
	750	2,98,800	3,73,500	5,97,600	
	800	3,35,800	4,19,750	6,71,600	
	850	3,52,800	4,41,000	7,05,600	
	900	3,98,800	4,98,500	7,97,600	
	1000	4,98,800	6,23,500	9,97,600	
	1100	7,73,500	8,50,850		
	1200	10,00,000	11,00,000		
5	Manufacture, Supply and delivery of DI D/F Butterfly Valves, Body and disc of Ductile Iron of grade GGG-40/SG-400/15 or GGG-50/SG-500/7 or Equivalent as per IS1865, IS:3896-2 Double eccentrically designed Disc., with renewable soft seal on the disc and Integral Body seat face of nickel-chromium overlay welding (Fusion Bonded) micro finished, 100 % leak tight in both directions, Medium free bearings and with minimum thickness of 250 microns Fusion bonded food grade epoxy coating and 1200mm dia and above food grade liquid Epoxy coating of minimum 150 microns applied on both body and disc inside and outside. Face to face dimensions as per EN558-1/IS 13095 body or IS: 13095 long body design standard as per EN 593/IS 5163 Flange drilling as per EN 1092-2/ IS 1538 the Valve should be suitable for buried application.	PN 1.0 (MPa)	PN 1.6 (MPa)	PN 2.5 (MPa)	PN 4.0 (MPa)
	DIA IN MM				
	150	17,800	22,250	35,600	1,33,162
	200	24,800	31,000	49,600	1,61,916
	250	34,800	43,500	69,600	2,26,892
	300				

		42,800	53,500	85,600	2,38,244
	350	59,800	74,750	1,19,600	2,59,305
	400	79,800	99,750	1,59,600	3,96,438
	450	89,800	1,12,250	1,79,600	
	500	1,15,800	1,44,750	2,31,600	4,89,889
	550	1,35,800	1,69,750	2,71,600	
	600	1,52,800	1,91,000	3,05,600	5,36,789
	650	1,72,800	2,16,000	3,45,600	
	700	1,98,800	2,48,500	3,97,600	
	750	2,25,800	2,82,250	4,51,600	
	800	2,53,800	3,17,250	5,07,600	
	850	2,72,800	3,41,000	5,45,600	
	900	2,98,800	3,73,500	5,97,600	
	1000	4,12,800	5,16,000	8,25,600	
	1100	6,12,800	7,66,000	12,25,600	
	1200	7,12,800	8,91,000	14,25,600	
	1300	9,12,800	11,41,000	18,25,600	
	1400	9,98,800	12,48,500	19,97,600	
	1500	12,53,800	15,67,250	25,07,600	
	1600	12,42,800	15,53,500	24,85,600	
	1700	17,52,800	21,91,000	35,05,600	
	1800	19,23,800	24,04,750	38,47,600	
	1900	21,81,800	27,27,250	43,63,600	

2000	23,15,800	28,94,750	46,31,600	
2100	24,20,800	30,26,000	48,41,600	
2200	25,80,800	32,26,000	51,61,600	

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.

The above formula for calculation of revised cost to be used for preparation of Estimates only.

29. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2016-17.

Sl.No.	Description	Unit	S o R for 2016-17
1	2	3	4
I	Manufacture as per BIS:12592 (Part 1&2) Supply & Delivery of manhole covers and frames with ISI marking anywhere in A.P., F.O.R. destination including, loading, unloading & stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable. <u>I.S.I Mark</u>		Rs.
a)	M.D. -10 with 500mm diaclear opening	Each	1543
b)	H.D.-20 with 500mm diaclear opening	Each	1989
c)	H.D.-10with 560mmdia clear opening(New item)	Each	1560
d)	H.D.-20 with 560mm diaclear opening	Each	2133
e)	H.D.-35 with 560mm diaclear opening.	Each	2286
f)	24x24 MD 10	Each	1682
g)	24x18 MD 10	Each	1548
h)	24x24 HD 20	Each	1890
i)	24x18 HD 20	Each	1927
j)	Deviders 0.9 mtr.	Each	3957
II	Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in A.P. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding taxes such as sales tax, C.E.D and others etc., as applicable.	Each	166

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

30. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2016-17

Sl.No.	Description	Unit	2016-17
1	2	3	4
1	Manufacture, Supply and Delivery of C.I Dismantling Joints with both side flange end suitable for installation in between flange end pipes. These rates are excluding Excise duty, Taxes and transportation charges etc., complete.		Rs.
	Nominal Dia. In MM		
	50	Each	4826
	80	Each	5282
	100	Each	6900
	125	Each	8800
	150	Each	9777
	200	Each	13864
	250	Each	16504
	300	Each	26409
2	Manufacture, Supply and Delivery of M.S. Dismantling Joints with both side flange end suitable for installation in between flange end pipes. Thickness as per IS: 7322. These rates are excluding Excise duty, Taxes and transportation charges etc., complete		
	Nominal Dia. In MM		
	350	Each	59,785
	400	Each	68,507
	450	Each	74,325
	500	Each	88,959
	600	Each	1,03,515
	700	Each	1,15,161
	750	Each	1,18,075
	800	Each	1,41,365
	900	Each	1,47,482
	1000	Each	1,76,660
	1100	Each	1,91,245
	1200	Each	2,20,420
	1300	Each	2,49,592
	1400	Each	2,79,334
	1600	Each	3,08,566
	1800	Each	3,65,405
	2000	Each	4,54,730
3	Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.		5% on basic cost
Note:	The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.		

31. OTHER ITEMS FOR THE YEAR 2016-17

Sl. No.	Description	Unit	S.S. Rates for 2016-17
1	2	3	4
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	319
2	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	168
3	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	128
4	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.		
	a) 3 mm thick	Per Kg	103
	b) 6 mm thick	Per Kg	103
5	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	123

**32. S o R FOR RUBBER RINGS SUITABLE FOR
SWG PIPES FOR THE YEAR 2016-17**

Sl. No.	Description	Unit	S.S Rates For 2015-16
1	2	3	4
1	Manufacture Supply of Rubber Rings made with EPDM Rubber Rings (seals according to EN681 AND ASTM 425) suitable for SWG pipes confirming to IS No.651/1992 any where in A.P , For including cost of materials, loading, unloading , handling with company standard packing , transportation, unloading and stacking but excluding central excise duty and other taxes etc complete. The Rubber Rings shall be tested at the factory premises confirming to I.S No.651/1992		
	100 mm dia	Each	48
	150 mm dia	Each	72
	200 mm dia	Each	108
	230 mm dia	Each	131
	250 mm dia	Each	167
	300 mm dia	Each	192
	350 mm dia	Each	228

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

**33. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD FOR
THE YEAR 2015-16**

Sl. No.	Description	Unit	S.S Rates For 2015-16
1	2	3	4
1	Railway crossing/Road crossing/Canal crossing by adopting trenchless technology tunneling work through specialized pipe jacking method by erecting the equipment to true to the alignment and gradient, by hydraulic pipe jacking technique complete including tunneling, excavation in all types of soils including hard rock and construction of RCC chambers suitable to casing pipe pits, and conveyance charges of machinery and other required materials but excluding cost of encasing pipe, in co-ordination with the concerned authorities as per approved drawings and directed by the Engineer-in – Charge.		
	800 mm dia	Rmt	26000
	900 mm dia	Rmt	27300
	1000 mm dia	Rmt	28600
	1100 mm dia	Rmt	29900
	1200 mm dia	Rmt	31200
	1300 mm dia	Rmt	32500
	1400mm dia	Rmt	35100
	1500 mm dia	Rmt	39000

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

The above formula for calculation of revised cost to be used for preparation of Estimates only.

GOVERNMENT OF ANDHRA PRADESH



BUILDINGS – SoR: 2016-2017

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

Procs.No. ENC(B)/DEE-1/AEE1/SoR: 2016-17 Dt:26-10-2016.

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

Ref:- 1. G.O.Rt.No.95, T, R&B (R.1) Dept, dt:18.01.2015.
2. Minutes of Committee of Chief Engineers meetings for finalizing the Building-SoRs held on Dt:29.09.2016

* * * * *

The Government of Andhra Pradesh have constituted a Committee of Chief Engineers of Engineering departments dealing with Building works for finalizing and communicating Buildings-SoR (Civil & Electrical) vide G.O. 1st cited. In accordance therewith the Committee of Chief Engineers has finalized and approved the Buildings-SoR: 2016-17 in the Minutes of Meeting held on Dt.29.09.2016.

The rates for the Building items (Civil, Water Supply & Sanitary and Electrical items) are to be followed henceforth by all the concerned departments for building works. The rates of Labour, Common Material & Work items, Public Health items, Conveyance Rates of Materials & Hire charges approved and published in Common SoR-2016-17 remain applicable. No other items other than the items communicated in this Buildings-SoR2016-17 and Common SoR-2016-17 shall be introduced.

The Heads of Departments mentioned below are authorized to print the Buildings-SoR: 2016-17. The unauthorized printing & selling of the Buildings-SoR is strictly prohibited.

The revised rates will come into force with immediate effect.

The receipt of the proceedings may please be acknowledged.

Enclosed: Buildings SoR: 2016-17 as above

Sd/- 26.10.2016
Sri. M. Gangadharam
Engineer-In- Chief (R&B)Admn., SR, RSW & Buildings
Convener-Member,
Committee of Chief Engineers-Buildings-SoR

To

1. Engineer-in-Chief (Admn., SR, RSW & Buildings), Roads & Buildings Department, Errummanzil, Hyderabad-82.
2. Chief Engineer (R&B) (Electrical), R&B Department, Errummanzil, Hyderabad-82
3. Engineer-in-Chief, Public Health Department, A, C, Guards, Hyderabad-4.

4. Engineer-in-Chief (P.R.), Panchayat Raj Department, Errummanzil, Hyderabad-82.
5. Engineer-in-Chief, Tribal Welfare & Social Welfare Department, DSS Bhavan, Masab tank, Hyderabad.
6. Chief Engineer (Civil), Tirupathi Tirumala Devasthanams, Tirupati
7. Chief Engineer (AP Housing Board) Gruhakalpa, Nampally, Hyderabad
8. Chief Engineer (Housing Corporation) Urdugally, Himayatnagar, Hyderabad
9. Chief Engineer(APSRTC), RTC 'X' Roads, Musheerabad, Hyderabad.
10. Chief Engineer(APMSIDC), Illrd Floor, DM&HS Campus, Sultanbazar, Koti, Hyderabad.
11. Chief Engineer (AP Police Housing & Welfare Corporation), Lakdi-ka-pool, Hyderabad.
12. Chief Engineer Vijayawada Municipal Corporation, Vijayawada

Copy also to

1. Engineer-in-Chief (IW)I&CAD, Irrigation Department, Errummanzil, Hyderabad-82.
2. Engineer-in-Chief (Rural Roads) R&B Department, Errummanzil, Hyderabad-82.
3. Chief Engineer (MD & APRDC), R&B Department, Hyderabad
4. Chief Engineer (NH), R&B Department, Errummanzil, Hyderabad-82.
5. Chief Engineer (QC), R&B Department, Errummanzil, Hyderabad-82.
6. Chief Engineer (COT), R&B Department, Errummanzil, Hyderabad-82.
7. Superintending Engineer (Designs & Planning), R&B Department, Errummanzil, Hyderabad-82.
8. Superintending Engineer (R&B), Head Quarters Circle, Errummanzil, Hyderabad-82.

SCHEDULE OF RATES FOR BUILDING WORKS

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

ALL ENGINEERING
DEPARTMENTS

INDEX FOR BUILDINGS SoR: 2016-17 (Civil & Electrical)

Sl. No:	DESCRIPTION	Page No:	
		From	To
BUILDINGS – SoR:2016-17			
	Letter for Communication of Buildings SoR 2016-17 (Civil & Electrical)	ii	iii
1	Index for Buildings SoR 2016-17 (Civil & Electrical)	v	vi
2	Preamble of Buildings-SoR-2016-17 (Civil)	vii	xii
3	Building Civil Items - Buildings-SoR-2016-17	1	135
4	List of Manufacturers / Suppliers of Building Civil Items	136	136
5	Water Supply & Sanitary Items - Buildings-SoR-2016-17	137	180
6	List of Manufacturers / Suppliers of Water Supply & Sanitary Items	181	181
7	Proceedings for Amendment to the AP Revised Standard Date	182	185
8	Electrical Items – Buildings-SoR-2016-17	186	342
9	Common SoR-2016-17 for Labour Rates, Common Material & Work items, Conveyance Rates of Materials & Hire charges		
10	Public Health SoR 2016-17		

BUILDINGS SoR:2016-17						
INDEX FOR BUILDING CIVIL ITEMS						
Sl No	SECTION	SECTION CODE		DESCRIPTION	Pages	
					From	To
1				PREAMBLE	vii	xii
2	SECTION - A	BMT - A	01 to 21	BRICKS & BUILDING BLOCKS	1	2
3	SECTION - B	BMT - B	01 to 17	NATURAL FLOORING STONES	2	3
4	SECTION - C	BMT - C	01 to 97	WALL & FLOOR TILES	3	13
5	SECTION - D	BMT - D	01 to 32	PAVING & INTERLOCKING TILES	13	16
6	SECTION - E	BMT - E	01 to 22	TIMBER & ROOFING MATERIALS	16	17
7	SECTION - F	BMT - F	01 to 34	MILD, GALVANISED & STAINLESS STEEL	17	21
8	SECTION - G	BMT - G	01 to 79	FIXTURES FOR DOORS & WINDOWS	21	24
9	SECTION - H	BMT - H	01 to 155	WATER PROOFING CHEMICALS & ADMIXTURES	24	37
10	SECTION - I	BMT - I	01 to 21	GLASS	37	38
11	SECTION - J	BMT - J	01 to 53	PAINTS & POLISHES	38	40
12	SECTION - K	BMT - K	1 to 124	PARTICLE BOARDS	40	45
13	SECTION - L	BMT - L	01 to 20	PLYWOOD	45	46
14	SECTION - M	BMT - M	01 to 118	CEILINGS, WALL PARTITIONS & WALL LININGS	46	61
15	SECTION - N	BMT - N	01 to 101	DOORS	61	89
16	SECTION - P	BMT - P	01 to 121	WINDOWS	89	114
17	SECTION - Q	BMT - Q	01 to 15	STRUCTURAL GLAZING	114	117
18	SECTION - S	BMT - S	01 to 15	DISMANTLING	117	118
19	SECTION - T	BMT - T	01 to 05	READY MIX CONCRETE	117	118
20	SECTION - U	BMT - U	01 to 11	EXPANSION JOINT FILLERS	118	118
21	SECTION - V	BMM - V	01 to 51	LABOUR CHARGES	118	123
22	SECTION - W	BMS - W	01 to 82	MISCELLANEOUS ITEMS	123	129
23	SECTION - X	BMC - X	01 to 14	MACHINERY CHARGES, HIRE CHARGES FOR CENTRING	129	133
24				CENTRING & SCAFFOLDING CHARGES	134	135
25	LIST Of the Names of MANUFACTURERS/ SUPPLIERS for Building Materials				136	136

BUILDINGS SoR:2016-17 (CIVIL)

PREAMBLE

1.0 INTRODUCTION

The Government have issued orders vide . G.O.Rt.No.95, T, R&B (R.1) Dept., dt:18.01.2015 constituting a 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). The meeting of the above "SoR Committee for Buildings (Civil & Electrical)" was convened on 29.09.2016 with an objective to finalize and release the Buildings-SoR: 2016-17.

2.0 APPLICABILITY OF COMMON SoR – 2016-17

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

3.0 OVERHEADS & CONTRACTORS PROFIT

- a. The provision of 'Over Heads and Contractor's Profit @ 13.615% shall be allowed in all the data items of the estimates and rates of the finished items in building works where 'Contractors All Risk' policy is dispensed with.
- b. It is reiterated that the provision of 'Over Heads and Contractor's Profit' is applicable to Building works since the advent of the AP. Revised standard data-2009, which is approved by the Government in G.O.Ms.No.49 I&CAD (PW-Reforms) Dept., dated: 02-03-2009 and this component shall be operative on all the data items of the estimates and rates of the finished items published in Buildings SoR **for original works** subjected to the fulfillment of the conditions given below:
 - i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
 - ii. Office furniture, equipment and communications.
 - iii. Expenditure on:
 - a) Corporate office of contractor.
 - b) Technical agents for site supervision. (Reimbursement to the technical agents provision is dispensed with where 'over heads and contractor's profit' provision is included in the data rates)
 - c) Documentation and "as built" drawings.
 - d) Mobilization/ de-mobilization of resources.
 - e) Labour camps with minimum amenities and transportation to work sites.
 - f) Light vehicles for site supervision including administrative and managerial requirements.
 - g) Laboratory equipment and quality control including field and laboratory testing. (For all the works costing more than Rs. 2.00 Crores contractors have to establish Quality Control laboratory)

- h) Minor T & P and survey instruments and setting outworks, including verification of line, dimensions, etc.
- i) Watch and ward.
- j) Traffic management/ Safety management during construction.
- k) Expenditure on safeguarding environment.
- iv. Sundries.
- v. Financing Expenditure.
- vi. Sales/ Turn over tax. (This is a material VAT component only, however the provision towards Works Contract Value Added Tax at 5% or as applicable on the finished work items as defined in APVAT Act-2005 shall be added in the estimates)
- vii. Work Insurance/ compensation - Works insurance is dispensed with vide G.O. Ms. No: 61 Irrigation & CAD (PW:Reforms) Department Dt. 25-06-2013. Further, It is decided not to insist upon insuring all the building works as provision for this component is already deleted from the 'Overheads & Contractor's Profit' in building works.

4.0 OTHER GUIDELINES

1. Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labour components of civil, water supply & sanitary items of building works shall be allowed wherever applicable as per the guidelines and preamble of Common SoR: 2016-17. For the building work estimates taken up in the notified Area Development Authorities constituted by the Government, the Area Allowance on the labour components of civil, water supply & sanitary items of building works may be allowed on specific recommendation from such Area Development Authorities.
2. The rates of the Ready Mix Concrete (RMC) are deleted as the rate analysis is appended in the A.P. Revised Standard Data-2009. In case RMC concrete is procured from the manufacturers the rate shall be as per the rate analysis which is appended at Sl. No 23 in the Buildings Section of A.P. Revised Standard Data-2009.
3. Wherever the concrete pump is used in the data, 8 working hours per day can be considered for rate analysis purpose.
4. For the structures where the Standard and High Strength Concretes vide IS: 456-2000 is required, mix design shall be carried out and rates may be arrived as per the rate analysis appended in the A.P. Revised Standard Data-2009.
5. Certain items in the SoR are deleted due to change in the specification, non-availability in the market, etc
6. The rates of Hire charges for centering & scaffolding for the **SHEAR WALLS, RCC WALLS, WATER TANK WALLS** are deleted from the Buildings SoR as the same are included in the Public Health section of Common SoR.
7. The Electrical items and corresponding rates as proposed by the Chief Engineer (R&B) Electrical in the meeting, have been considered in the Buildings SoR-2016-17.
8. The rates for the Manholes and inspection chambers are finalized based on the detailed rate analysis.

9. The rates of CI Pipes and fittings have been fixed based on the price lists obtained from the dealers & manufacturers and based on the 'Wholesale Price Indices' published by the Government of India and competitive quotations.
10. Similarly the Vitreous China Ware, Porcelain, Taps & Faucets, G.I Pipes, Valves & Fittings, SWG pipes & fittings and PVC Pipes & fittings have been finalized based on the 'Wholesale Price Indices' published by the Government of India and competitive quotations.
11. The specifications of the aggregates for sizes and gradation and its adoption shall be as per IS 383-1970 and IS 2386 (Part 1 to Part 8).
12. No allowance towards 'Labour Importation & Labour Amenities' shall be added to the datas as they are included in the provision of 'Over heads and contractor's profit'.
13. For sand, gravel , murum, stones , course aggregates etc, the basic rates are for delivery at site, excluding seigniorage (royalty) charges, unloading charges by machinery / manual means and idle hire charges of machinery shall be allowed (as per table under chapter "conveyance or lead and lift charges") as applicable.
14. For all the materials, the basic rates given in the Buildings SoR are 'landing prices' at the site, except where mentioned specifically.
15. For the materials where the basic rates are mentioned as 'quarry rates' in the Buildings SoR, which includes initial lead of 1.0 km, lead charges are to be added for the lead distances from the approved quarries as applicable. Wherever the term "carriage" or "conveyance" is used in schedule item, it shall be taken to include actual leads, lifts, loading, unloading and stacking to the satisfaction of the technical sanctioning authority while making the price-adjustments.
16. The basic item rates provided in the schedule of rates include 50 m (conveyance by manual means) or 1 km (conveyance by mechanical means) as initial lead and no lead charges shall be allowed where the source of material is within the initial lead specified in item rate. Additional lead charges shall be allowed for the lead exceeding initial lead specified in the item rate.
17. The lead charges per unit quantity for conveyance of the materials are worked out, and included in the schedule of rates in increment of 50 m for head load and in increment of 1 km for mechanical mode.
18. The rates for lead charges by head load up to 150 meters and by machinery up to 5 km shall be cumulative and inclusive of lead charges for proceeding lead.
19. For building works taken up in the hill areas where the materials are conveyed on ghat roads,the lead distance may be taken as 2.0 times of the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.
20. Loading and unloading charges are not payable for conveyance by head load.
21. Loading and unloading charges are not payable for conveyance by mechanical means,for disposal of excavated material unless specified.
22. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone, are inclusive of stacking wherever applicable.
23. The input rate for the water charges taken in Common Standard Schedule of Rates for the basic data is for the sources at site, any water lead as applicable may be allowed as per the conveyance charges.

24. Unless otherwise specified, all material rates shall be inclusive of all taxes, duties, levies, royalty/seigniorage, transportation and handling costs up to project area, but excluding 'Works Contract Tax (VAT)'.
25. Any errors, omissions, corrections or suggestions shall be brought to the notice of the 'COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)' for corrective action.
26. For any new items to be included in the 'Schedule of Rates', recommendations with specific remarks of the respective departments should reach the 'Committee of Chief Engineers' well in advance.
27. The CWC (Ministry of Irrigation) has recommended that **"where standard or schedule of rates are revised or where is necessary to do so, the primary guiding principle should be escalation in labour and material cost and not on trend of rates quoted by the contractors"**. The 'Committee of Chief engineers' (Buildings SoR) have considered the practicality and adoptability of the 'Buildings-SoR' in construction of the building projects in finalizing the 'Buildings-SoR'.
28. Wherever feasible, more emphasis is given to the technical specifications for the SoR items by removing the brand names of the manufacturers from the specification and list of approved brands in the respective category for the products is grouped and appended at the end of the SoR so as to bring to an end of encouraging a particular brand.
29. The estimate preparing authorities are advised to specify the brand names/ manufacturers in the contract documents as per the requirement.
30. The technical specifications, brand names and the corresponding rates given in the 'water proofing and chemical admixtures' section are for the guidance only. The estimate preparing authorities are requested to obtain literature for usage / application of construction / water proofing materials, epoxies etc, from the manufacturers or authorized suppliers in the contract documents as per the requirement.

5.0 CONCLUSION

1. The Committee of Chief Engineers on Buildings-SoR: 2016-17 (Civil & Electrical) has met in the chambers of Engineer-In-Chief (R&B) Buildings, on **29-09-2016** at 03.30P.M., and approved the Buildings SoR:2016-17 based on the representations received from various Engineering Departments.
2. SSR Rates for Civil, Sanitary& water supply and Electrical Items are purely for the guidance of the officers in preparation of estimates vide Para 113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in Para 45 of APPWD code.
3. The rates published in the Buildings SoR are ceiling rates and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.
4. The committee has resolved to amend the labour coefficients of Plastering in single coat in AP Revised Standard Data and decided to issue proceedings to such effect.

6.0 AMENDMENTS TO A.P. REVISED STANDARD DATA-2009

1. The Committee of Chief Engineers has decided to modify the coefficient of Labour in plastering works.

2. The Labour coefficients modified in Plastering items is as given below:

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amount Rs.	Remarks
	1	2	3	4	5	6	7
BLD-CSTN-6		PLASTERING					
BLD-CSTN-6-1	53	Plastering with CM (1:3), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:3)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-2	54	Plastering with CM (1:4), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-3	55	Plastering with CM (1:5), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:5)	cum	0.150			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-4	56	Plastering with CM (1:6), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:6)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-5	57	Plastering with CM (1:8), 12 mm thick					
		Unit = 10 sqm					

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amount Rs.	Remarks
	1	2	3	4	5	6	7
		A. MATERIALS:					
		Cement Mortor (1:5)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-6	58	Plastering with CM (1:4), 15 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.19			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-7	59	Plastering with CM (1:4), 20 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.210			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
BLD-CSTN-6-8	60	Plastering with CM (1:3), 20 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:3)	cum	0.210			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.8			
		Grand Total					
		Note : When Mortar mix is changed proportionate quantity of cement has to be substituted					

BUILDING ITEMS

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
	A.	BRICKS & BUILDING BLOCKS <i>(Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)</i>		
		ORDINARY CLAY BRICKS		
1	BMT-A.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	1000 Nos	5200
2	BMT-A.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	1000 Nos	5850
		FLY-ASH CEMENT/LIME SOLID BLOCKS <i>(ex-quarry price - excluding cost of conveyance, loading & unloading)</i>		
3	BMT-A.03	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 225 x 140 mm	Each	25
4	BMT-A.04	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 200 x 140 mm	Each	23
5	BMT-A.05	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 150 x 140 mm	Each	20
6	BMT-A.06	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 290 x 112/100 x 140 mm	Each	14
7	BMT-A.07	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 225 x 100 x 60 mm	Each	7
8	BMT-A.08	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 145 x 225 x 140 mm	Each	15
9	BMT-A.09	Fly ash cement/lime solid blocks with compressive strength of 75 kg/sq.cm - IS:12894-1990 - CLASS - 7.5 - 145 x 200 x 140 mm	Each	12
10	BMT-A.10	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 290 x 225 x 140 mm	Each	24
11	BMT-A.11	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 290 x 200 x 140 mm	Each	19
12	BMT-A.12	Fly ash cement/ lime solid blocks with compressive strength	Each	20

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 290 x 150 x 140 mm		
13	BMT-A.13	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 290 x 112/100 x 140 mm	Each	11
14	BMT-A.14	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 225 x 100 x 60 mm	Each	5
15	BMT-A.15	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 145 x 225 x 140 mm	Each	12
16	BMT-A.16	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - 145 x 200 x 140 mm	Each	11
17	BMT-A.17	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	670
		AUTOCLAVED CONCRETE BLOCKS (landing cost - including cost of conveyance, loading & unloading)		
18	BMT-A.18	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² - 600 x 200 x 100 mm	Each	56
19	BMT-A.19	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² - 600 x 200 x 150 mm	Each	82
20	BMT-A.20	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² - 600 x 200 x 200 mm	Each	110
21	BMT-A.21	Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm ² 600 x 200 x 230 mm	Each	125
	B.	NATURAL FLOORING STONES (Ex-quarry price - including material VAT, loading excluding cost of conveyance, unloading & stacking)		
		LOCALLY AVAILABLE FLOORING STONES		
22	BMT-B.01	Kadapa slab 40 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	96
23	BMT-B.02	Kadapa slab 50 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	110

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
24	BMT-B.03	Shahabad /Tandur Rough Stone slabs of minimum of 25 mm thick	10 Sqm	961
25	BMT-B.04	Shahabad / Tandur Rough Stone slabs of minimum 40 mm thick	10 Sqm	1239
26	BMT-B.05	Polished Shahabad/ Tandur stone slabs of 15 to 18 mm thick	10 Sqm	1654
27	BMT-B.06	Polished black Kadapa slabs minimum of 15 mm thick (0.457x0.457M)	10 Sqm	1379
28	BMT-B.07	Polished Bethamcherla pure (marble type) white stone minimum 25 mm thick (0.254Mx0.254M)	10 Sqm	3859
29	BMT-B.08	Polished Bethamcherla coloured stone minimum 25 mm thick (0.254M x0.254M)	10 Sqm	2756
		NATURAL FLOORING STONES - GRANITE		
30	BMT-B.09	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black/ premium colours	1 Sqm	3183
31	BMT-B.10	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black and regular colours	1 Sqm	2767
32	BMT-B.11	High Polished Granite 16 to 18 mm thick up to 2.43 M black	1 Sqm	2352
		NATURAL FLOORING STONES - MARBLE		
33	BMT-B.12	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes from 600 mm to 900 mm	1 sqm	729
34	BMT-B.13	Polished Marble slabs of Dongari/ Adanga/ Marodh/ Rajgangpur etc., variety of thickness between 16 mm to 20 mm of sizes up to 600 mm	1 sqm	589
35	BMT-B.14	Polished Marble slabs of any variety and gang saw cut (Such as Dongari/ Adanga/ Marodh/ Rajgangpur etc) 16 mm to 20 mm (average) thick (0.610 M width of any length)	1 sqm	999
36	BMT-B.15	Polished Marble Tiles of 8 - 10 mm thickness of all sizes and varieties	1 sqm	476
37	BMT-B.16	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 sqm	1079
38	BMT-B.17	Polished black Kadapa slabs of all sizes between 25 - 30 mm thickness	10 Sqm	1654
	C.	WALL & FLOOR TILES (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
39	BMT-C.01	Supply of Ceramic floor tiles of not less than 7.3mm thick 1st quality in all shades and designs	1 sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
40	BMT-C.02	Supply of Edge Cut - Rectified Ceramic floor tiles of not less than 8 mm thick 1st quality in all shades and designs	1 sqm	Deleted
41	BMT-C.03	Supply of decorated white background glazed wall tiles of any size and of 5 to 7 mm thick	1 sqm	Deleted
42	BMT-C.04	Supply of screenprinted, decorated coloured background glazed wall tiles of any size and of 5 to 7 mm thick	1 sqm	Deleted
43	BMT-C.05	Supply of decorated coloured background glazed wall tiles of any size and of 5 to 7 mm thick	1 sqm	Deleted
44	BMT-C.06	Supply of 1st quality, plain white glazed wall tiles of any size and of 5 to 7 mm thick	1 sqm	Deleted
45	BMT-C.07	Supply of 1st Quality, glazed plain coloured wall tiles of any size and of 5 to 7 mm thick	1 sqm	Deleted
46	BMT-C.08	Supply of precast terrazzo tiles 20 mm thick of medium shades	1 sqm	Deleted
47	BMT-C.09	Supply of precast terrazzo tiles 20 mm thick of dark shades	1 Sqm	Deleted
48	BMT-C.10	Supply of coloured precast terrazzo tiles of 20 mm thick	1 Sqm	Deleted
49	BMT-C.11	Supply of white/ plain precast terrazzo tiles of 20 mm thick	1 Sqm	Deleted
50	BMT-C.12	Supply of grey precast terrazzo tiles of 20 mm thick	1 Sqm	Deleted
51	BMT-C.13	Supply of vitrified polished floor tiles of size not less than 900 x 900 x 10 mm thickness regular finish and normal colours	1 Sqm	Deleted
52	BMT-C.14	Supply of vitrified polished floor tiles of size not less than 795 x 795 mm x 8 mm thickness regular finish and normal colours	1 Sqm	Deleted
53	BMT-C.15	Supply of vitrified polished floor tiles of size not less than 598 x 598 mm x 8 mm thickness glossy finish premium colours	1 Sqm	Deleted
54	BMT-C.16	Supply of vitrified polished floor tiles of size not less than 598 x 598 mm x 8 mm thickness regular finish and normal colours	1 Sqm	Deleted
55	BMT-C.17	Supply of vitrified polished floor tiles of size not less than 400 x 400 x 7mm thickness normal colours	1 Sqm	Deleted
56	BMT-C.18	Supply of glass mosaic tiles 1st quality of size 20x20x4 mm thick	1 Sqm	Deleted
57	BMT-C.19	Providing of Vitrified/ Ceramic Tile flooring for required areas using different sizes, approved colour and make fixing with synthetic/ epoxy adhesive in specified thickness with out joint including all taxes excluding cost of tiles 600 x 600 mm and above sizes tiles.	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
58	BMT-C.20	Providing of Vitrified/ Ceramic Tile flooring for required areas using different sizes, approved colour and make fixing with synthetic/ epoxy adhesive in specified thickness with out joint including all taxes excluding cost of tiles 400 x 400 mm and below size tiles	1 Sqm	Deleted
59	BMT-C.21	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles: 600 x 600 mm tiles with 3 mm joints width	1 Sqm	Deleted
60	BMT-C.22	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:600 x 600 mm tiles with 4 mm joints width	1 Sqm	Deleted
61	BMT-C.23	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:400 x 400 mm tiles with 3 mm joints width	1 Sqm	Deleted
62	BMT-C.24	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:400 x 400 mm tiles with 4 mm joints width	1 Sqm	Deleted
63	BMT-C.25	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:300 x 200 mm tiles with 3 mm joints width	1 Sqm	Deleted
64	BMT-C.26	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:300 x 200 mm tiles with 4 mm joints width	1 Sqm	Deleted
65	BMT-C.27	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes excluding cost of tiles:300 x 200 mm tiles with 3 mm joints width	1 Sqm	Deleted
66	BMT-C.28	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing specified colour cement based polymer grout mixed with grout admix including all taxes	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		excluding cost of tiles:300 x 200 mm tiles with 4 mm joints width		
67	BMT-C.29	Providing Glass Mosaic tiles using specified pattern fixing with grout and approved colour of joint filling with admix cement grouting including all taxes excluding cost of tiles	1 Sqm	Deleted
68	BMT-C.30	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:600 x 600 mm tiles with 4 mm joints width	1 Sqm	Deleted
69	BMT-C.31	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:400 x 400 mm tiles with 3 mm joints width	1 Sqm	Deleted
70	BMT-C.32	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:400 x 400 mm tiles with 4 mm joints width	1 Sqm	Deleted
71	BMT-C.33	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:300 x 200 mm tiles with 3 mm joints width	1 Sqm	Deleted
72	BMT-C.34	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:300 x 200 mm tiles with 4 mm joints width	1 Sqm	Deleted
73	BMT-C.35	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:300 x 200 mm tiles with 3 mm joints width	1 Sqm	Deleted
74	BMT-C.36	Providing tile flooring with synthetic/ epoxy adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles:300 x 200 mm tiles with 4 mm joints width	1 Sqm	Deleted
75	BMT-C.37	Providing Glass Mosaic tiles using specified pattern fixing with epoxy grout and approved colour of joint filling with admix cement grouting including all taxes excluding cost of tiles	1 Sqm	Deleted
76	BMT-C.38	Providing Glass Mosaic tiles using specified pattern fixing with epoxy grout and approved colour cement admix grout including all taxes excluding cost of tiles	1 Sqm	Deleted
77	BMT-C.39	Supply of design wall tiles of any colour and size other than	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		highlighters and of thickness 8 to 10 mm including all taxes		
78	BMT-C.40	Supply of design highlighters wall tiles of any colour and size and of thickness 8 to 10 mm including all taxes	1 Sqm	Deleted
79	BMT-C.41	Supply of design highlighters wall tiles of premium / radium colours and of any size and of thickness 8 to 10 mm including all taxes	1 Sqm	Deleted
80	BMT-C.42	Supply of plain exterior wall tiles of thickness 20 mm of any size for wall claddings	1 Sqm	Deleted
81	BMT-C.43	Supply of exterior design wall tiles of thickness 20 mm of any size for wall claddings	1 Sqm	Deleted
82	BMT-C.44	Supply of Plain design floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm	1 Sqm	Deleted
83	BMT-C.45	Supply of textured design floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm	1 Sqm	Deleted
84	BMT-C.46	Supply of premium plain design floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm	1 Sqm	Deleted
85	BMT-C.47	Supply of premium textured design floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm	1 Sqm	Deleted
86	BMT-C.48	Supply of premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm but excluding highlighters	1 Sqm	Deleted
87	BMT-C.49	Supply of premium plain design highlighter combination floor and wall tiles set with floor tiles of thickness 15 mm and wall tiles of thickness 9 mm but including highlighters	1 Sqm	Deleted
88	BMT-C.50	Vitrified polished floor tiles of size not less than 1000 x 1000 x 10 mm thickness with nano technology printing and high glossy finish/ premium colours	1 Sqm	Deleted
89	BMT-C.51	Vitrified polished floor tiles of size not less than 795 x 795 mm x 8 mm thickness with nano technology printing and high glossy finish/ premium colours special series	1 Sqm	Deleted
90	BMT-C.52	Vitrified polished floor tiles of size not less than 598 x 598 mm x 8 mm thickness with nano technology printing and glossy finish permium colours high glossy finish/ premium colours special series	1 Sqm	Deleted
91	BMT-C.53	Vitrified polished floor tiles of size not less than 900 x 900 mm x 10 mm thickness with nano technology printing and glossy finish permium colours high glossy finish/ premium colours special series	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		NON-PORCELAIN CERAMIC FLOOR TILES		
92	BMT-C.54	Supply of Non-skid red or white full body Ceramic floor tiles of size 300 x 300 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	450
93	BMT-C.55	Supply of Non-skid red or white full body Ceramic floor tiles of size 400 x 400 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	560
94	BMT-C.56	Supply of Non-skid red or white full body Ceramic floor tiles of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	635
95	BMT-C.57	Supply of Non-skid red or white full body Ceramic floor tiles of scratch free-stain free and scratch free-nano finish of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	650
		PORCELAIN VITRIFIED FLOOR TILES		
96	BMT-C.58	Supply of ordinary soluble salt porcelain vitrified tiles screen printed and polished of size 400 x 400 mm and thickness between 8-9 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	560
97	BMT-C.59	Supply of soluble salt porcelain vitrified tiles screen printed and polished of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	635
98	BMT-C.60	Supply of Nano polished /stain free soluble salt porcelain vitrified tiles screen printed of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	675
99	BMT-C.61	Supply of Nano polished soluble salt porcelain vitrified tiles screen printed of size 800 x 800 mm and thickness between 9-11 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1123

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
100	BMT-C.62	Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of size 600 x 600 mm and thickness between 8-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	940
101	BMT-C.63	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	1522
102	BMT-C.64	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	1522
103	BMT-C.65	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	1039
104	BMT-C.66	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	1274
105	BMT-C.67	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	1747
106	BMT-C.68	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	1932
107	BMT-C.69	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,	1 Sqm	1099

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs		
108	BMT-C.70	Supply of full body heavy duty industrial variety / tact porcelain vitrified tile of size 300 x 300 / 200 x 100 mm and thickness between 12-15 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	1210
109	BMT-C.71	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	1390
110	BMT-C.72	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	1210
111	BMT-C.73	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	1391
		CERAMIC WALL TILES		
112	BMT-C.74	Supply of glazed red or white full body ceramic wall tiles of size 200 x 300 mm / 245 mm x 325 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	660
113	BMT-C.75	Supply of glazed red or white full body ceramic wall tiles of size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	730
114	BMT-C.76	Supply of glazed red or white full body ceramic wall tiles of size 300 x 600 mm and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	815
		PORCELAIN WALL TILES		
115	BMT-C.77	Supply of glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	691

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
116	BMT-C.78	Supply of digital / polished glazed full body porcelain wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	691
117	BMT-C.79	Supply of digital / polished glazed full body porcelain highlighter wall tiles of size 300 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	795
118	BMT-C.80	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	865
119	BMT-C.81	Supply of glazed full body porcelain wall tiles of size 400 x 600 mm with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and thickness between 6-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	986
120	BMT-C.82	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	1134
121	BMT-C.83	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	1213
122	BMT-C.84	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	1243

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
123	BMT-C.85	Providing and fixing wall dado with epoxy emulsion grout/ synthetic/ resin based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	331
124	BMT-C.86	Providing and fixing wall dado with cement based adhesive in specified thick and pointing with specified colour epoxy grout excluding cost of tiles	1 Sqm	167
125	BMT-C.87	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with epoxy emulsion grout/ synthetic / resin adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles.	1 Sqm	349
126	BMT-C.88	Providing and fixing flooring with full depth jointing and pointing to the Vitrified/ Ceramic Tile flooring in specified thick for tiles of any sizes with cement based adhesive in width of 3-5 mm with Nylon spacers excluding cost of tiles .	1 Sqm	176
127	BMT-C.89	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with epoxy emulsion grout/ synthetic / resin based adhesive in width of 3-5 mm excluding cost of tiles.	1 Sqm	698
128	BMT-C.90	Providing and fixing flooring with full depth jointing and pointing to the Marble/ Granite flooring for any sizes with cement based adhesive in width of 3-5 mm excluding cost of tiles.	1 Sqm	352
		GLASS MOSAIC TILES		
129	BMT-C.91	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	1310
130	BMT-C.92	Providing Glass Mosaic tiles using specified pattern fixing in specified thick epoxy emulsion grout of epoxy resins and filler powder of approved colour grout including all taxes excluding cost of tiles	1 Sqm	294
131	BMT-C.93	Providing Glass Mosaic tiles using specified pattern fixing in specified thick cementitious powder mix cement grout and approved colour grout including all taxes excluding cost of tiles	1 Sqm	113
		WALL CLADDING TILES		
132	BMT-C.94	Supply of glazed full body porcelain tiles for external cladding purposes of any size and thickness between 6-10 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	592

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
133	BMT-C.95	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 5-7 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	430
134	BMT-C.96	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 10-12 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	447
135	BMT-C.97	Supply of glazed red or white full body ceramic tiles for external cladding purposes of any size and thickness between 18-20 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	572
	D.	PAVING & INTERLOCKING TILES (landing cost - including cost of conveyance, loading & unloading)		
136	BMT-D.01	Supplying precast terrazzo chequered tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick of any coloured shades.	1 sqm	314
137	BMT-D.02	Chequered Terrazzo tiles of 22 mm thick (Dark shade) 0.254 M x 0.406 M	1 sqm	deleted
138	BMT-D.03	Supplying precast terrazzo tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick white shades.	1 sqm	288
139	BMT-D.04	Supplying precast terrazzo plain tiles conforming to IS: 13801 using marble aggregates of size 10 mm , sand, marble powder, white cement pigments etc., with terrazzo topping not less than 6 mm of tiles overall size not less than 20 mm thick any coloured shades.	1 sqm	306
140	BMT-D.05	Chequered Terrazzo tiles of 30 mm thick (medium shade) 0.305 M x 0.305 M	1 sqm	deleted
141	BMT-D.06	Supply, laying & fixing of 60 mm thick cement Mosaic reflective concrete pavers of grade M-40 and above including labour charges, loading & unloading, laying to desired lines and levels complete excluding cost of cement, sand, water, electricity etc	1 Sqm	deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
142	BMT-D.07	Supply, laying & fixing of 30 mm thick cement Mosaic reflective concrete pavers of grade M-40 and above including labour charges, loading & unloading, laying to desired lines and levels complete excluding cost of cement, sand, water, electricity etc	1 Sqm	deleted
143	BMT-D.08	Supply of high strength Cement Concrete Designer Tiles of 30 mm thickness of M- 40 Grade of which top 12 mm thick shall be for colour pigmentation with imported colours and white cement to get required reflective glazing inclusive of all taxes	1 Sqm	deleted
144	BMT-D.09	Supply of high strength Cement Concrete interlocking Designer Pavers of 60 mm thickness of M- 40 Grade of which top 12 mm thick shall be for colour pigmentation with imported colours and white cement to get required reflective glazing inclusive of all taxes	1 Sqm	deleted
145	BMT-D.10	Supply of high strength Cement Concrete interlocking Designer Pavers of 80 mm thickness of M- 40 Grade of which top 12 mm thick shall be for colour pigmentation with imported colours and white cement to get required reflective glazing inclusive of all taxes	1 Sqm	deleted
146	BMT-D.11	Supply of high strength Cement Concrete interlocking Regular Pedestrian Pavers of 60 mm thickness of M- 40 Grade of which top 12 mm thick shall be for colour pigmentation with imported colours and white cement to get required reflective glazing inclusive of all taxes	1 Sqm	deleted
147	BMT-D.12	Supply of high strength Cement Concrete interlocking Regular Pedestrian Pavers of 80 mm thickness of M- 40 Grade of which top 12 mm thick shall be for colour pigmentation with imported colours and white cement to get required reflective glazing inclusive of all taxes	1 Sqm	deleted
148	BMT-D.13	Supply of high strength Cement Concrete pre-polished ready to lay floor tiles of any colour, design and any size with 22 mm thickness including all taxes with compressive strength not less than 450 Kg/cm ² conforming to IS 516	1 Sqm	deleted
149	BMT-D.14	Supply of high strength Cement Concrete Step tiles of regular colour, design and of 25 mm thickness including all taxes	1 Sqm	deleted
150	BMT-D.15	Supply of high strength Cement Concrete pre-polished Step tiles of any premium colour, design and of 25 mm thickness including all taxes	1 Sqm	deleted
151	BMT-D.16	Supply of Cement Concrete interlocking cement grade finish non-reflective Pavers of 60 mm thickness and dumbell, zig-	1 Sqm	deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		zag, I-block shapes etc., inclusive of all taxes		
152	BMT-D.17	Supply of Cement Concrete interlocking cement grade finish non-reflective Pavers of 80 mm thickness and dumbbell, zig-zag, I-block shapes etc., inclusive of all taxes	1 Sqm	deleted
153	BMT-D.18	Supply of Cement Concrete interlocking cement grade finish non-reflective Pavers of 100 mm thickness and dumbbell, zig-zag, I-block shapes etc., inclusive of all taxes	1 Sqm	deleted
		CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
154	BMT-D.19	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	270
155	BMT-D.20	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.	1 Sqm	284
156	BMT-D.21	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	288
157	BMT-D.22	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 25 mm of any shades.	1 Sqm	302
158	BMT-D.23	Supplying plain Cement Concrete general purpose tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	314
159	BMT-D.24	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS: 13801 using aggregates, cement, pigments of size 400 x 400 mm and thickness 25 mm of any shades.	1 Sqm	330
160	BMT-D.25	Supply of high strength Cement Concrete plain Step tiles with edge half rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of regular colour, design and of 25 mm thickness	1 Sqm	471
161	BMT-D.26	Supply of high strength Cement Concrete terrazzo/pre-polished/ chequered Step tiles with edge rounded and grooved conforming to IS: 13801 using aggregates, cement, pigments of any premium colour, design and of 25 mm thickness	1 Sqm	495
		PRE-CAST CONCRETE BLOCKS FOR PAVING		
162	BMT-D.27	Supply of precast concrete blocks for paving of M-30 grade and thickness not less than 50 mm for Non-traffic areas	1 Sqm	335

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification		
163	BMT-D.28	Supply of precast concrete blocks for paving of M-35 grade and thickness not less than 60 mm for Light traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	362
164	BMT-D.29	Supply of precast concrete blocks for paving of M-40 grade and thickness not less than 80 mm for Medium traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	518
165	BMT-D.30	Supply of precast concrete blocks for paving of M-50 grade and thickness not less than 100 mm for Heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	571
166	BMT-D.31	Supply of precast concrete blocks for paving of M-55 grade and thickness not less than 120 mm for very heavy traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	649
167	BMT-D.32	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
		E. TIMBER & ROOFING MATERIALS (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
		<i>Note: Before proposing the Teak Wood Items, the estimating authorities shall obtain prior approval from the competent authority</i>		
168	BMT-E.01	Medium Teak Wood scantlings: up to 2.0 M	1 cum	80094
169	BMT-E.02	Medium Teak Wood scantlings: 2.0 to 3.0 M	1 cum	88994
170	BMT-E.03	Medium Teak Wood scantlings: above 3.0 M	1 cum	97894
171	BMT-E.04	Medium Teak Wood Plancks: any thickness	1 cum	160189
172	BMT-E.05	Best Teak Wood scantlings: up to 2.0 M	1 cum	137941
173	BMT-E.06	Best Teak Wood scantlings: 2.0 to 3.0 M	1 cum	146840
174	BMT-E.07	Best Teak Wood scantlings: above 3.0 M	1 cum	155740

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
175	BMT-E.08	Best Teak Wood Plancks: any thickness	1 cum	173539
176	BMT-E.09	Burma Teak Wood scantlings: up to 2.0 M	1 cum	189545
177	BMT-E.10	Burma Teak Wood scantlings: 2.0 to 3.0 M	1 cum	194959
178	BMT-E.11	Burma Teak Wood scantlings: above 3.0 M	1 cum	205056
179	BMT-E.12	Burma Teak Wood Plancks: any thickness	1 cum	222040
180	BMT-E.13	Assam Teak Wood scantlings: any length	1 cum	50812
181	BMT-E.14	Assam Teak Wood Plancks: any thickness	1 cum	73679
182	BMT-E.15	Sal Wood scantlings: any length	1 cum	51994
183	BMT-E.16	Sal Wood Plancks: any thickness	1 cum	69327
184	BMT-E.17	A.C sheet Corrugated 6 mm thick	1 sqm	222
185	BMT-E.18	A.C sheet plain 4 m thick	1 sqm	159
186	BMT-E.19	A.C sheet plain 6 m thick	1 sqm	165
187	BMT-E.20	Plain or Corrugated Galvanized iron sheets as per IS 277 (0.1 mm to 0.8 mm thickness)	1 kg	60
188	BMT-E.21	Supply of UV resistant multi-wall polycarbonate sheets for roofing of any colour - 6 mm thick	1 Sqm	1290
189	BMT-E.22	Aluminium universal glazing set 40 mm wide for jointing and fixing polycarbonate sheets	1 RM	128
	F.	MILD, GALVANIZED & STAINLESS STEEL (<i>Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking</i>)		
190	BMT-F.01	Mild Steel Hallow single rebate general putpose door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile-B of size 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, phosphating with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 Rm	378
191	BMT-F.02	Country Nails	1 Kg	61
192	BMT-F.03	Wire Nails	1 Kg	61
193	BMT-F.04	Mild Steel Tubes & pipes of all diameters as per IS-1161	1 Kg	61
194	BMT-F.05	Stainless Steel Tubes, sections, plates, sheets & pipes of all sizes & diameters - 202 Grade	1 Kg	deleted
195	BMT-F.06	Stainless Steel Tubes, sections, plates, sheets & pipes of all	1 Kg	391

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		sizes & diameters for - 304 Grade		
196	BMT-F.07	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type A - IOWA Type Designation as per standard specification	1 Kg	82
197	BMT-F.08	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type B - Glidden Type Designation as per standard specification	1 Kg	82
198	BMT-F.09	Expanded metal sheets as per IS-412-1962- Light Weight-25 mm(SWM)x75 mm (LWM)3.25 mm Wide and 1.25 mm thick	1 Sqm	146
199	BMT-F.10	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	146
200	BMT-F.11	Expanded metal sheets as per IS-412-1962- Light Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.25 mm thick	1 Sqm	146
201	BMT-F.12	Expanded metal sheets as per IS-412-1962- Medium Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 1.60 mm thick	1 Sqm	200
202	BMT-F.13	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	200
203	BMT-F.14	Expanded metal sheets as per IS-412-1962- Medium Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 1.60 mm thick	1 Sqm	200
204	BMT-F.15	Expanded metal sheets as per IS-412-1962- Heavy Weight-25 mm(SWM)x75 mm(LWM) 3.25 mm Wide and 2.24 mm thick	1 Sqm	228
205	BMT-F.16	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x60 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	228
206	BMT-F.17	Expanded metal sheets as per IS-412-1962- Heavy Weight-20 mm(SWM)x50 mm(LWM) 2.50 mm Wide and 2.24 mm thick	1 Sqm	228
207	BMT-F.18	Galvanized Iron fly proof wire mesh of not less than 20 gauge	1 Sqm	217
208	BMT-F.19	Stainless steel fly proof wire mesh of not less than 20 gauge	1 Sqm	527
209	BMT-F.20	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	477
210	BMT-F.21	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	378

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
211	BMT-F.22	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	322
212	BMT-F.23	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979: 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	239
213	BMT-F.24	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2"x2" (50 mm x 50 mm) - 8 Gauge	1 Sqm	575
214	BMT-F.25	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 2½"x2½" (63 mm x 63 mm) - 8 Gauge	1 Sqm	477
215	BMT-F.26	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 3"x3" (76 mm x 76 mm) - 8 Gauge	1 Sqm	393
216	BMT-F.27	Hot dipped Galvanised Iron Chain link mesh 8 gauge - (4.0 mm) as per IS: 2721-1979 - PVC Coated - 4"x4" (102 mm x 102 mm) - 8 Gauge	1 Sqm	307
217	BMT-F.28	Rabbit wire mesh (chicken mesh) of not less than 30 gauge	1 Sqm	17
218	BMT-F.29	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 dia 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 spn: 1108	1 Sqm	2861
219	BMT-F.30	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 dia 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 spn 1105	1 Sqm	2503

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
220	BMT-F.31	Powder Coated Mild Steel Hallow single rebate door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile size of 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, Galvanized as per IS:277, zinc phosphating finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 60 – 65 microns(Dry film thickness)Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 RM	696
221	BMT-F.32	Supply and Fixing Door Frames 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 pure polyester powder coating of 60 - 65 Microns (Dry Film thickness) manufactured from 1.2 mm thick galvanized steel sheet formed to single rebate profile of size 100 mm x 58 mm fitted with "TEE" anchors and supplied to knock down /welded form with Miter Joint for Bolted Assembly at site, cleaned and coated with Polyurethane powder coating of thickness 65 – 75 microns (Dry Film Thickness) & Oven Baked at 200 Degree Centigrade for Wood Grain finish, Stainless Steel Ball Bearing Butt Hinges of 102 x 76 x 3mm thick fixed flush to the frame	1 RM	deleted
222	BMT-F.33	Supply and Fixing Door Frames 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 pure polyester powder coating of 60 - 65 Microns (Dry Film thickness) manufactured from 1.2 mm thick galvanized steel sheet formed to double rebate profile of size 148 mm x 58 mm fitted with "TEE" anchors and supplied to knock down /welded form with Miter Joint for Bolted Assembly at site, cleaned and coated with Polyurethane powder coating of thickness 65 – 75 microns (Dry Film Thickness) & Oven Baked at 200 Degree Centigrade for Wood Grain finish, Stainless Steel Ball Bearing Butt Hinges of 102 x 76 x 3mm thick fixed flush to the frame	1 RM	deleted
223	BMT-F.34	Providing Epoxy Shield fusion bonded Anti Corrosive epoxy coating to reinforcement bars as per IS-13620-993 specificaion for a thickness of 175 (+50) microns including extra cost on account of careful handling, extra cost on account of using PVC coated binding wire instead of G. I. wire, extra cost on account of touch-up material supplied by coating agency and repair work extra cost on account of		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		transportation to and fro from steel yard to plant and Plant to work site by trailer, loading, unloading, including all taxes (Central and Local), etc. complete a) For Reinforcement Diameterwise Rates		
224	BMT-F.34-A	8 mm dia.	MT	16932
225	BMT-F.34-B	10 mm dia.	MT	15372
226	BMT-F.34-C	12 mm dia.	MT	14332
227	BMT-F.34-D	16 mm dia.	MT	13916
228	BMT-F.34-E	20 mm dia.	MT	12980
229	BMT-F.34-F	25 mm dia	MT	12015
230	BMT-F.34-G	28 mm dia.	MT	11469
231	BMT-F.34-H	32 mm dia.	MT	10651
	G.	FIXTURES FOR DOORS & WINDOWS		
232	BMT-G.01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	177
233	BMT-G.02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	260
234	BMT-G.03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	347
235	BMT-G.04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	431
236	BMT-G.05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	530
237	BMT-G.06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	77
238	BMT-G.07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	95
239	BMT-G.08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	114
240	BMT-G.09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	141
241	BMT-G.10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	170
242	BMT-G.11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	198
243	BMT-G.12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	534
244	BMT-G.13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	676
245	BMT-G.14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	26
246	BMT-G.15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	38
247	BMT-G.16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm	Each	56

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		Long		
248	BMT-G.17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	75
249	BMT-G.18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	93
250	BMT-G.19	Brass Butt hinges (IS:205)- 75 mm Long	Each	73
251	BMT-G.20	Brass Butt hinges (IS:205)- 100 mm Long	Each	240
252	BMT-G.21	Brass Butt hinges (IS:205)- 125 mm Long	Each	290
253	BMT-G.22	Brass Butt hinges (IS:205)- 150 mm Long	Each	383
254	BMT-G.23	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	111
255	BMT-G.24	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	132
256	BMT-G.25	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	159
257	BMT-G.26	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	165
258	BMT-G.27	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	12
259	BMT-G.28	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	23
260	BMT-G.29	MS-Powder Coated Butt hinges (IS:205)- 125 mm Long	Each	34
261	BMT-G.30	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	44
262	BMT-G.31	Aluminium Door Handles (IS:208) 75 mm Long	Each	75
263	BMT-G.32	Aluminium Door Handles (IS:208) 100 mm Long	Each	84
264	BMT-G.33	Aluminium Door Handles (IS:208) 125 mm Long	Each	126
265	BMT-G.34	Aluminium Door Handles (IS:208) 150 mm Long	Each	140
266	BMT-G.35	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	34
267	BMT-G.36	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	50
268	BMT-G.37	Brass Aldrop (IS:2681) 300 mm long	Each	1284
269	BMT-G.38	Brass Aldrop (IS:2681) 350 mm long	Each	2473
270	BMT-G.39	Brass Aldrop (IS:2681) 450 mm long	Each	3522
271	BMT-G.40	Aluminium Aldrop (IS:2681) 200 mm long	Each	329
272	BMT-G.41	Aluminium Aldrop (IS:2681) 250 mm long	Each	391
273	BMT-G.42	Aluminium Aldrop (IS:2681) 300 mm long	Each	425
274	BMT-G.43	MS-Powder Coated Aldrop (IS:2681) 200 mm long	Each	115

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
275	BMT-G.44	MS-Powder Coated Aldrop (IS:2681) 250 mm long	Each	151
276	BMT-G.45	MS-Powder Coated Aldrop (IS:2681) 300 mm long	Each	181
277	BMT-G.46	Brass Door Stoppers	Each	198
278	BMT-G.47	Brass Windows Stay	Each	224
279	BMT-G.48	Aluminium Flat Latches: 200 mm long	Each	159
280	BMT-G.49	Aluminium Flat Latches: 250 mm long	Each	179
281	BMT-G.50	Aluminium Flat Latches: 300 mm long	Each	188
282	BMT-G.51	MS-Powder Coated Flat Latches: 250 mm long	Each	58
283	BMT-G.52	MS-Powder Coated Flat Latches: 300 mm long	Each	73
284	BMT-G.53	MS-Powder Coated - Door Stoppers	Each	50
285	BMT-G.54	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	128
286	BMT-G.55	Supply & fixing drapery bracket - brass powder coated	pair	451
287	BMT-G.56	Deluxe window stay Aluminium	Each	144
288	BMT-G.57	Heavy duty Aluminium Door stopper	Each	63
289	BMT-G.58	Brass fancy handles 150 mm	Each	335
290	BMT-G.59	Brass fancy handles 200 mm	Each	454
291	BMT-G.60	Brass fancy handles 250 mm	Each	819
292	BMT-G.61	Brass fancy handles 300 mm	Each	1045
293	BMT-G.62	Brass fancy handles 450 mm	Each	1635
294	BMT-G.63	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	1035
295	BMT-G.64	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1912
296	BMT-G.65	Double action Brass cover plate and cast brass body floor spring (IS 6315- Table-1)	Each	4536
297	BMT-G.66	Heavy duty mortise lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	935
298	BMT-G.67	Heavy duty mortise lock 6/7 levers (IS:2209) with brass heavy handles	Each	2405
299	BMT-G.68	Brass latch heavy 300 mm	Each	644

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
300	BMT-G.69	Brass latch heavy 350 mm	Each	740
301	BMT-G.70	Brass latch heavy 450 mm	Each	976
302	BMT-G.71	Friction stay hinges for windows	Each	107
303	BMT-G.72	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	348
304	BMT-G.73	Keyless lock set for toilet doors with brass knob handles	Each	921
305	BMT-G.74	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	1198
306	BMT-G.75	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	1282
307	BMT-G.76	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	1345
308	BMT-G.77	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	3788
309	BMT-G.78	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	2816
310	BMT-G.79	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	12513
	H.	WATER PROOFING CHEMICALS & ADMIXTURES		
		<i>Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.</i>		
311	BMT-H.01	Supply of cement based Impervious Water Proofing powder compound	1 Kg	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
312	BMT-H.02	Providing Tar felting roof repairs with Rainseal Felt/ Zori-felt BT or equivalent duly applying one coat of appropriate grade of bitumen in hot condition @ 0.2 Kg/1Sqm of roof area, fixing tar felt (Manufactures to IS 1322/1972 specification), applying second coat of appropriate grade of hot bitumen at 1.20 Kg/1Sqm of roof area and spreading course aggregate (sand) at 0.063 cum per 1 Sqm of roof area finished item	1 Sqm	Deleted
313	BMT-H.03	Providing waterproofing treatment by supplying and applying Rainseal HDP 1500 /ROOFSHIELD-1500 OR ZORISHIELD-1500 equivalent (1.50 mm thickness, 2.25Kg per Sq. Mt and 20 X1 Mtr. roll with a centre core of 90 micron thickness HMHDPE film) Water Proofing Membrane. A) apply one coat of Bituminous Emulsion, first coat of bituminous grade 85/25, fix "Rainseal HDP 1500/ROOFSHIELD-1500 OR equivalent " water proofing membrane, apply second coat of Bitumen grade 90/15 after sealing all the joints and abutments with a Gas torch and apply one coat of Rainseal SAP-BITUMINOUS ALUMINIUM PAINT for heat resistance for finished item	1 Sqm.	Deleted
314	BMT-H.04	Providing chemical waterproof treatment with Brick bat coba & chemical cement mortars to exposed RCC roof slab surfaces to required slopes mixed with Conproof NO.1/ Rain Proof No 1/Zoriproof (100 mL Per Bag of 50 Kgs Cement) waterproofing chemical compound, laid over roof slab and brickbat coba treatment in chemical cement mortar 100 mm thick at the centre and 80 mm thick at the edges finished smooth with a floating coat of chemical mixed cement mortar as per the manufacturer specification including cost and conveyance of all materials like sand, chemical-Conproof NO.1/ Rain Proof No 1 Zoriproof (100 mL Per Bag of 50 Kgs Cement) waterproofing compound, water etc., to site, including seigniorage charges and operational, incidental, and labour charges for mixing mortar, laying, lift charges, rendering smooth curing including rounding off junctions of wall and slab etc., complete for finished item of work (with a guarantee of 10 years)	1 Sqm	Deleted
315	BMT-H.05	Providing chemical waterproof treatment with Brick bat coba & chemical cement mortars to exposed RCC roof slab surfaces to required slopes mixed with – Conproof NO.1/ Rain Proof No 1/Zoriproof (100 ML Per Bag of 50 Kgs Cement) waterproofing chemical compound, laid over roof slab and brickbat coba treatment in chemical cement mortar 80 mm thick at the centre and 60 mm thick at the edges finished smooth with a floating coat of chemical mixed cement mortar as per the manufacturer specification including cost and conveyance of all materials like sand,	1 Sqm	deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		chemical –Conproof NO.1/ Rain Proof No 1/Zoriproof (100 mL Per Bag of 50 Kgs Cement) waterproofing compound, water etc., to site, including seigniorage charges and operational, incidental, and labour charges for mixing mortar, laying, lift charges, rendering smooth curing including rounding off junctions of wall and slab etc., complete for finished item of work (with a guarantee of 10 years)		
316	BMT-H.06	Construction Chemicals, Epoxy & Admixtures - Chloride free water reducing and plasticizing admixture : Consplax/ Conflow SNP1 Zoriplast (Dosage : 20 ml Per Bag of 50 Kgs Cement) or equivalent	1 litre	Deleted
317	BMT-H.07	High strength Acrylic blended plasticizer and Water reducing agent - Roofplast HS 100/ Conflow SNP20 or Zoriplast HS (Dosage : 400 ml to 500 ml Per Bag of 50 Kgs Cement)	1 litre	Deleted
318	BMT-H.08	Quick setting, rapid hardening and water proofing compound - : Rapidstrong QS/Conflow SNPA or ZorirapidR or Equivalent (Dosage : 1 to 3 Ltrs per bag of 50 Kgs Cement depending on the setting time required).	1 litre	Deleted
319	BMT-H.09	Chloride free super plasticizer for high range water reducing admixture : Roofplast SP 35/Conflow SNS I or Zoriplast SP 350 (Dosage: 200 ml to 500 ml per bag of 50 Kgs Cement) or equivalent.	Litre	Deleted
320	BMT-H.10	Chloride free super plasticizer for high early strength and high range water reducing admixture : Roof plast SP 45/Conflow SNS 2 or Zoriplast SP 450 (Dosage: 200 ml to 500 ml per bag of 50 Kgs Cement) or equivalent.	Litre	Deleted
321	BMT-H.11	Set accelerator and plasticizer: Roofplast SCA/ Conflow SNA or Zoriset or Equivalent (Dosage:1 Kg to 3 Kgs per bag of 50 Kgs Cement depending on the setting time required)	Kgs	Deleted
322	BMT-H.12	Chloride free High power slump retaining and retarding plasticizer: Roofplast RT5/Conflow SNR or Zoriplast RT5 (Dosage: 15ml to 40 ml per bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
323	BMT-H.13	Air Entraining Agent: Roofplast AEA/ Conflow SNE or Zoriplast AEA (Dosage : 5ml to 25 ml per bag of 50 Kgs Cement) or Equivalent (Dosage : 15ml per Bag of 50 Kgs Cement)	Litre	Deleted
324	BMT-H.14	Chloride free super plasticizer, high range water reducing and retarding admixture - Roofplast SR5/Conflow SNS-3 SPL or Zoriplast SRT5 (Dosage : 300 ml to 400 ml per bag of 50 Kgs Cement) or equivalent	Litre	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
325	BMT-H.15	Retarding super plasticizer: Conflow SNS-3 or Accelerating Plasticizers : Roofplast SA/ Zoriplast AC (Dosage : 500 ml to 1 Ltr per bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
326	BMT-H.16	Waterproof Cement Mortar Plasticizer : Roofplast MP/ Morflow SN 1 or Zoriplast MP (Dosage : 100 ml per bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
327	BMT-H.17	Integral Cement Waterproofing Compound : Conproof No.1/ Rainproof No.1/Conflow SNW1 or Zoriproof (Liquid Form) (Dosage : 100 ml Per Bag of 50 Kgs Cement)	Litre	Deleted
328	BMT-H.18	Integral Cement Waterproofing Compound :Conproof No.1/ Rainproof No.1/Conflow SNW2 or Zoriproof (Powder Form) (Dosage : 500 Grams per bag of 50 Kgs Cement) or Equivalent.	Kg	Deleted
329	BMT-H.19	High plasticizing cement waterproofing liquid based on naphtha lane formaldehyde : Conproof LW 200/ Rainproof LW SPL/Conflow SNW2 - 750 Gms or Zorishield 200 or Equivalent. (Dosage:200 ml per Bag of 50 Kgs Cement)	Litre	Deleted
330	BMT-H.20	Block Admixture: Roofplast BA/ Conflow SNB or Zoriplast BA (Dosage: 20 ml to 25ml per bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
331	BMT-H.21	Sprayed Concrete Accelerator: Shotset SN1 or Roofplast SA/ Zoriset SCA or Equivalent (Dosage : 500 ml – 2.5 Ltrs/bag of Cement).	Kg	Deleted
332	BMT-H.22	Surface treatment water Based high power curing compounds: Curaid SN1 or Roofexcure WB/Zoricure WB (Coverage : 5-6 Sq. Mtrs / Ltr / Coat) or Equivalent.	Litre	Deleted
333	BMT-H.23	Concrete wax based pigmented curing compound : Curaid SN2 or Roofexcure WX/ Zoricure SB or Equivalent. (Coverage : 4-5 Sq. Mtrs / Ltr / Coat)	Litre	Deleted
334	BMT-H.24	Formwork & Mould Treatment: Roofcare MRA/ Shutterol SNU or Zorislip or Equivalent. (Coverage: 1 Ltr Zorislip will cover approx 20 to 30 m2 on method and material of the form)	Litre	Deleted
335	BMT-H.25	Cleaning and acid etching agents: Tilex Kleen AC/ Uniklen SN1 or Zorikleen AC or Equivalent.	Litre	Deleted
336	BMT-H.26	Ready to use universal degreasing and cleaning agents:Tilex Kleen DA/ Uniklen SN2 or Zorikleen DA or Equivalent.	Litre	Deleted
337	BMT-H.27	Liquid Cleaning Agent: Tilex Kleen LC/ Uniklen SN3 or Zorikleen LC or Equivalent.	Litre	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
338	BMT-H.28	Non-shrink Free flow high strength injection grout : Rapidstrong Grout GP2/ Expacrete SN50 or Zorigrout GP 2 or Equivalent. (Yield 13.5 Ltrs Per 25 Kgs Bag).	Kg	Deleted
339	BMT-H.29	Non-shrink Free flow grout: Rapidstrong Grout GP3/Expacrete SN70 or Zorigrout GP 3	Kg	Deleted
340	BMT-H.30	Non-shrink Free flow grout: Rapidstrong Grout GP4/ Expacrete SN90 or Zorigrout GP 4	Kg	Deleted
341	BMT-H.31	High strength cementitious non-shrink Free flow grout : Rapidstrong Grout Admix/ Expacem SN2 or Zorigrout GP 1 or Equivalent. (250 Gms per Bag of 50 Kgs Cement).	1 Kg pack	Deleted
342	BMT-H.32	Low viscosity Epoxy resin injection grout (Two parts) :Rapidstrong Grout EP/Expacrete SNE 1 or Zorigrout EP or Equivalent.(Density 1.07 Kg Per Ltr)	Kg	Deleted
343	BMT-H.33	Epoxy Resin Grouts:Rapidstrong Grout EP3/ Expacrete SNE 3 or Zorigrout EP 3 or Equivalent.	Kg	Deleted
344	BMT-H.34	High Power Polyester Resin Anchor Grout: Rapidstrong Grout AG/Anchorset SN1 or Zorifix or Equivalent. (Yield 0.5 Ltrs / 1 Kg Pack)	Kg	Deleted
345	BMT-H.35	High strength, high polyester resin grouts – Rapidstrong AG Pride/Anchorset SN2 or Zorifix XL or Equivalent. (Yield 0.5 Ltrs / 1 Kg Pack)	Kg	Deleted
346	BMT-H.36	Non-metalic Floor Hardeners : Rapidstrong NH/Flortop SNC or Zorifloor DH or Equivalent. (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)	Kg	Deleted
347	BMT-H.37	Non oxidizing, heavy duty metallic Floor Hardeners:Rapidstrong FM/ Flortop SNS or Zorifloor NH or Equivalent.	Kg	Deleted
348	BMT-H.38	Epoxy Floor coating: Procoat SNF or Food neutral Epoxy waterproof / damproof coating : Roofcare EP/ Zoricoat EP or Equivalent. (Coverage : 70 to 80 SFT / Per Ltr / coat)	Kg	Deleted
349	BMT-H.39	Polysulphide modified epoxy coatings: Procoat SNS or Roofcare EPS/Zoricoat EPS or Equivalent (Coverage : 250 to 300 Gms / M2 and forms a DFT of 175 to 200 Micron)	Kg	Deleted
350	BMT-H.40	Essenputty SNE or Epoxy putty - Roofcrete Putty EP/ Zoriputty EP or Equivalent	Kg	Deleted
351	BMT-H.41	Zincrich epoxy resin primer - Roofguard ZP/Procoat SNZ or Zoriguard ZP or Equivalent (Coverage : 4-5 Sq.Mtr. /Ltr / Coat)	Kg	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
352	BMT-H.42	Chemical resistance, fungus resistance water based polyurethane sterile coating : Roofcare PU/ Procoat SNL or Zoristerile or Equivalent (Coverage : 60 to 65 SFT / 2 Coats / Ltr)	Pack	Deleted
353	BMT-H.43	Solvent free chemical resistant Epoxy self leveling (for food and pharmaceutical industry) Flooring system: Armstrong FL-SL/Flortop SNSL or Zorifloor SL or Equivalent. (8.25 to 0.30 M2 / Kg mix with 2mm thickness)	Kg	Deleted
354	BMT-H.44	Self leveling self smoothing water based epoxy floor topping : Armstrong FL-SLW/Flortop SNSL-SPL or ZORIFLOOR SLW - 1.5- 3mm or Equivalent (Coverage : 4.5m2 / 17 Kg Pack @ 2mm thickness depending on the substrate)	Kg	Deleted
355	BMT-H.45	High build heavy duty epoxy resin floor coating : Armstrong HBF/ Flortop SNM or Zorifloor HB or Equivalent. (Coverage : Base coat 10- 12 m2/ 5 Kg @ 250 microns DFT)	Kg	Deleted
356	BMT-H.46	Epoxy based repair mortar / concrete : Roofcrete EP/ Flortop SNFM or Zoricrete EP or Equivalent.	Litre	Deleted
357	BMT-H.47	Solvent free Epoxy resin primer for floor coatings : Florcoat SNP or Roofbond EP Primer/ Zoriprime EP or Equivalent. (Coverage : 3 Kg unit covers about 13m2 for DFT of about 120 micron.)	Pack	Deleted
358	BMT-H.48	Solvent free epoxy resin primer for protective coatings – Procoat SNC or Roofbond EPF Primer/ Zoriprime EPF or Equivalent (Coverage : 3 Kg unit covers about 13m2 for DFT of about 120 micron.)	Pack	Deleted
359	BMT-H.49	Epoxy Primer for floor coatings and protective coatings - Procoat SNP or Roofbond EFC Primer/ Zoriprime EFC or Equivalent.	Pack	Deleted
360	BMT-H.50	Epoxy primer for Hibond floor & protective coatings : Procoat SNP2 or Roofbond EFC2 Primer/ Zoriprime EFC 2	Pack	Deleted
361	BMT-H.51	Cementitious Micro concrete Repair products: Repcrete SNC or Roofcrete MC/Zoricrete MC or Equivalent.	Kg	Deleted
362	BMT-H.52	Repair Products:Repcrete SNE1 or Epoxy mortar - Roofcrete EP/Zoricrete EPM or Equivalent	Kg	Deleted
363	BMT-H.53	Under water epoxy resin system for repair products : Repcrete SNW or Roofcrete EUW/Zoricrete EUW or Equivalent.	Kg	Deleted
364	BMT-H.54	Under water epoxy resin system mortar – Repcrete SNW Mortar or Roofcrete EUW/Zoricrete EMU	Kg	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
365	BMT-H.55	Fast setting cement based plugging compound - Uniplug SN or Wonderseal Plug/Zoriplug or Equivalent (Powder Form : mix with water direct application)	Kg	Deleted
366	BMT-H.56	High durable cementitious acrylic based two pack Waterproofing systems : Aqua coat SNF or Roofbond RFX/Zoricoat RX or Equivalent. (12 – 14 m2 in two coats to achieve 1mm thickness)	Kg	Deleted
367	BMT-H.57	Water Repellents: Aquarepel SN1 or Water based silicon water repellent, Nano technology - Rain care WR/ Zoripel WB or Equivalent	Litre	Deleted
368	BMT-H.58	Tile Adhesives: Tilegrip SNU or Tilex/ Zorimix or Equivalent. (At 3mm thickness 7-9 Sqm / 25 Kgs)	Kg	Deleted
369	BMT-H.59	Acrylic based Bonding Adhesives: Conbond SNA or Roofbond PB/ Zoribond PB or Equivalent. (Mix: 1:1 ratio of cement 50 SFT / Ltr /coat depending on the substrate)	Litre	Deleted
370	BMT-H.60	Epoxy based Bonding adhesive: Conbond SNE or Roofbond EP/Zoribond EP or Equivalent. (Coverage : 20 – 25 SFT / Kg /Coat)	Pack	Deleted
371	BMT-H.61	Supply of anti-corrosion admixture inhibitor liquid as per Central Electro Chemical Research Institute developed specification and licensee of Concure or Concure Plus or Equivalent (300 ml to 500 ml per Bag of 50 Kgs Cement)	Litre	Deleted
372	BMT-H.62	HI-BOND: Concrete Plasticizers: HI-PLAST 01 or Roofbond High plast (Dosage : 100 ml Per Bag of 50 Kgs Cement)	Litre	Deleted
373	BMT-H.63	Concrete Plasticizers: HI-PLAST 02 or Roofbond High plast – 2 (Dosage : 200 ml per bag of 50 Kgs Cement)	Litre	Deleted
374	BMT-H.64	Concrete Plasticizers: HI-PLAST PA or Roofbond AC	Litre	Deleted
375	BMT-H.65	Super Plasticizers: HI-PLAST SP or Roofbond SP 30	Litre	Deleted
376	BMT-H.66	Super Plasticizers: HI-PLAST SP AR or Roofbond SP 40	Litre	Deleted
377	BMT-H.67	Accelerating Plasticizers: HI-PLAST AR or Concrete plasticizing, water reducing and accelerating admixture - Roofbond PA (Dosage: 500 ml to 1000 ml Per Bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
378	BMT-H.68	Retarding Plasticizers: HI-PLAST RT or Roofbond RT 30	Litre	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
379	BMT-H.69	Air Entraining Agents: HI-PLAST A.E or Roofbond AEA	Litre	Deleted
380	BMT-H.70	Retarding Super Plasticizers: HI-PLAST SP RT or Roofbond SR 30	Litre	Deleted
381	BMT-H.71	HI-PLAST RSP or Roofbond SR 40 or Equivalent.	Litre	Deleted
382	BMT-H.72	Mortar Plasticizers: HI-PLAST MP or Roofbond MP (Dosage : 100 ml Per Bag of 50 Kgs Cement)	Litre	Deleted
383	BMT-H.73	Integral Water Proofing compounds: HI-PROOF (L) or Liquid Concentrated Micronized Cement Waterproofing Compound : Roofguard 500/Roofbond 500 (Dosage : 500 ml per bag of 50 Kgs Cement) or Equivalent.	Litre	Deleted
384	BMT-H.74	HI-PROOF (P) or Conproof P/Roofbond - P or Equivalent (Dosage : 1 Kg Per Bag of 50 Kgs Cement).	Kg	Deleted
385	BMT-H.75	or Roofbond 750 or Equivalent	Litre	Deleted
386	BMT-H.76	Block Admixtures: HI-ADMIX or Roofbond BA or Equivalent (Dosage : 20 ml Per bag of 50 Kgs Cement)	Litre	Deleted
387	BMT-H.77	Sprayed Concrete Accelerators: HI-ACCEL or Roofbond SA or Equivalent. (Dosage : 50 Grams to 1 Kg Per Bag of 50 Kgs Cement)	Kg	Deleted
388	BMT-H.78	Surface Treatments curing compounds: HI-CURE 01 or Roofex WB /Roofcoat/ Zoricoat	Litre	Deleted
389	BMT-H.79	Surface Treatments Polyurethane curing compounds: HI-CURE 02 or Roofex WXB/ Roofcare PU/ Zoricoat PU	Litre	Deleted
390	BMT-H.80	Surface Treatments Crystalline Repair Products: HI-CRM or Roofex GP2 or Zoripex Equivalent	Kg	Deleted
391	BMT-H.81	Polyurethane Sealent - Roofseal PU/ Zoriseal PUHI-CRM EX or Roofex EC or Equivalent	Kg	Deleted
392	BMT-H.82	Polyurethane Sealent - Roofseal PS/ Zoriseal PS/HI-CRM EXW or Roofex EW or Equivalent.	Kg	Deleted
393	BMT-H.83	Structural graded polymer modified reinstatement concrete / mortar – Roofcrete AR/ Zoricrete CMG or Equivalent	Kg	Deleted
394	BMT-H.84	Water Proofing: Liquid applied single component, elastomeric waterproofing membrane coating with -Rain seal/ Zoricoat XL or Equivalent. (Coverage : 50 to 60 SFT Per Ltr / Coat) (for brush / spray application add 20% water per Ltr) As a primer coat application dilute with water @ of 1 : 1 ratio	Litre	deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		recommended.		
395	BMT-H.85	Water Repellents: Solvent based silicon water repellent compound - Roofcare WR/Zoripel SB or Equivalent. (Direct application)	Litre	Deleted
396	BMT-H.86	Tile Adhesives: HI-ADHESIVE or High strength tile adhesive (tile on tile) : Tilex Grout Hi- Grip/ Zorimix Hi-Grip or Equivalent. (At 3mm thickness 7-9 Sqm / 25 Kgs)	Kg	Deleted
397	BMT-H.87	Supply of Concure-XL Anti Corrosion and leak proof Crack Proof ,Water Proof ,Concrete Hardener Admixture liquid Dosage (200 ml to 250 ml per Bag of Cement	Litre	Deleted
398	BMT-H.88	HI-FIX Epoxy tile mortar - Tilex EH/ Zorimix EH or Equivalent	Kg	Deleted
399	BMT-H.89	HI-BOND Wall Putty Normal or Grey cement based Gypsum Plaster – Wallstrong GP/Zoritek GP or Equivalent (Coverage : 35 to 40 SFT per bag of 40 Kgs Pack)	Kg	Deleted
400	BMT-H.90	HI-BOND Wall Putty Fine or Portland cement based plaster finish surface for interior – Wallstrong PC/ Zoritek PC or Equivalent.	Kg	Deleted
401	BMT-H.91	HI-BOND Wall Putty Super Fine or Acrylic based ready to use surface (white / off white) -Wallstrong WC/ Zoritek WC or Equivalent. (At 1.5 to 2mm thickness 100 - 125 SFT Per Bag of 25 Kgs Pack)	Kg	Deleted
402	BMT-H.92	HI-BOND Wall Putty Super Fine (Water Resistant) or Smooth crack free, water resistant finish plaster Wallstrong WP/ Zoritek WP or Equivalent	Kg	Deleted
403	BMT-H.93	BITUMINOUS HOT SEALING COMPOUND: Grade 'A' I.S.I excluding ST or Rainseal BS/ Zoriseal BS Grade 'A' or Equivalent	1 Kg	Deleted
404	BMT-H.94	Bitumen solution primer of approved quality: Rainseal BT primer/ Zoriprime BT or Equivalent.	1 Kg	Deleted
405	BMT-H.95	Tarfelt Rainseal Felt/ Zorifelt BT Type : 2 Grade : 1 or Equivalent	1 sqm	Deleted
406	BMT-H.96	Supply and application of Liquid admixture for concrete with high resistance against water ingress and having surface active agents & refined lignosulphonate Rheomac 707 of BASF	1 Litre	Deleted
407	BMT-H.97	Supply and application of two component acrylic modified cementitious system for forming coating to waterproof and	1 Kg	deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		resurface concrete, masonry and other construction materials waterproof and flexible coating MASTERSEAL 550 GREY of BASF		
408	BMT-H.98	Supply and application of Elastomeric flexible two component polymers modified cementitious system for forming waterproof coating on concrete, masonry & other construction material up to 2mm thick MS550 EL membrane and reinforced with 100% virgin polypropylene woven fabric MASTERSEAL 550 EL of BASF	1 Kg	Deleted
409	BMT-H.99	Supply and application of grey cementitious powder polymer additive and cement-based adhesive for fixing ceramic & vitrified wall and floor tiles, quarry tiles and similar materials MASTERTILE 25 of BASF	1 Kg	Deleted
410	BMT-H.100	Supply and application of premixed, non-metallic, ready to use powder, designed for application as a dry shake over freshly floated concrete floors or floor screeds to obtain a monolithic floor with enhanced abrasion resistance MASTERTOP 100 (GREY) of BASF	1 Kg	Deleted
411	BMT-H.101	Supply and application of synthetic polymers to impart rheoplastic qualities to concrete RHEOBUILD 920 (SH) of BASF	1 Kg	Deleted
412	BMT-H.102	Supply of Concure-Plus Admixture Anti Corrosion and leak proof Weather Proof, Concrete Hardener Admixture.Dosage (200 ml to 250 ml per Bag of Cement)	1 Litre	Deleted
413	BMT-H.103	Supply of Concure-LP polymer based, leak proof, Admixture liquid, dosage (250 ml to 300 ml per Bag of Cement)	1 Litre	Deleted
414	BMT-H.104	Supply Con- life –Water Proof, Leak Proof, Concrete Hardener, Rust Proof, Admixture Liquid Dosage (200 ml to 250 ml per Bag of Cement)	1 Litre	Deleted
415	BMT-H.105	Supply of Contech – 2000 bio Product (Powder) Anti Corrosion leak proof, Crack Proof ,Chemical Resistant, whether proof, inhibitor liquid. Dosage (5 to 10% of cement weight Cement) and 15% in serve environmental Condition like marine structures / coastal structures and chemical structures,Godowns, effect	1 Kg	Deleted
416	BMT-H.106	Supply of Con – Cura Self Curing Agent Admixture for Concrete. Dosage (100 ml – 250ml per bag (50kgs) of cement depending on the atmospheric temperature and humidity)	1 Litre	Deleted
417	BMT-H.107	Supply of Con – Grout Epoxy Pourable Crack / Gap Filling Grout System. Dosage (Varies with climate, Site / Substrate Status. Average density is 1.20 Kg / ltr (System)	1 Kg	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
418	BMT-H.108	Supply of Con Mix – XL Liquid super Plasticizer And Waterproofing With Anti Corrosive properties. Dosage (100 MI – 1ltr Per bag (50Kg)of Cement) Dosage Should be finalized after initial site trials	1 Litre	Deleted
		<i>Approved brands, area of application, dosage etc have been appended to this SoR for the guidance for preparation of estimates only. However, literature for usage/ application of construction/ water proofing materials, epoxies etc, may be obtained from the manufacturers, while in execution.</i>		
		PLASTICIZERS		
419	BMT-H.109	Concrete Plasticizers and Water reducing admixture Conforming to IS:9103-99	1 Ltr	150
420	BMT-H.110	Early High Strength, High water retention, polycarboxylic plasticizers Conforming to IS:9103-1999	1 Kg	140
421	BMT-H.111	High performance super plasticizer and water reducing admixture Conforming to IS: 9103-1999	1 Kg	95
422	BMT-H.112	Super plasticizer for high range water reducing admixture Conforming to IS: 9103-1999	1 Kg	105
423	BMT-H.113	Super plasticizer, high range water reducing and retarding admixture complying with IS:9103-1999	1 Kg	94
424	BMT-H.114	Plasticizer for accelerator for sprayed concrete Conforming to IS: 9103-1999.	1Kg	75
		WATER PROOFING COMPOUNDS		
425	BMT-H.115	Integral Cement Waterproofing Liquid Conforming to IS: I.S. 2645-2003	1 Ltr	210
426	BMT-H.116	High durable cementitious acrylic based waterproofing systems	1 Kg	115
427	BMT-H.117	Acrylic Polymer Elastomeric Cementitious Waterproof Coatings	1 Ltr	350
428	BMT-H.118	Single component, elastomeric waterproof membrane coating	1 Ltr	425
429	BMT-H.119	Quick setting, rapid hardening and water proofing compound Conforming to IS: I.S. 2645-2003	1 Ltr	80
430	BMT-H.120	Highly Flexible Waterproof Acrylic Elastomeric bituminous Blended Coatings	1 Ltr	300
		BONDING AGENTS		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
431	BMT-H.121	Acrylic based Bonding adhesive	1 Ltr	150
432	BMT-H.122	Styrene butadiene rubber based bonding agent	1 Kg	450
433	BMT-H.123	Two Parts system of Epoxy Bonding adhesive Conforming to ASTM-C 881	1 Kg	870
		ANTI-CORROSIVE AGENTS		
434	BMT-H.124	Acrylic based Anti corrosive coating	1 Ltr	350
435	BMT-H.125	Rust converter –rust encapsulating coating for steel	1 Ltr	480
436	BMT-H.126	High range of reinforcement / steel protector against corrosion zinc rich epoxy resin primer	1 Kg	750
437	BMT-H.127	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture	1 Lit	315
		GROUTS		
438	BMT-H.128	High Power Polyester Resin Anchor Grout Conforming to ASTM-827	1 Kg	300
439	BMT-H.129	Non-shrink Free flow high strength precision grout Conforming to BS 1881 Part 1161983.	1 Kg	34
440	BMT-H.130	Low viscosity Epoxy resin injection grout	1 Kg	800
441	BMT-H.131	Three component epoxy grout Conforming to IS: ASTM 827 (Three components)	1 Kg	160
		MISCELLANEOUS CHEMICALS		
442	BMT-H.132	Mould / Shutter releasing oil	1 Ltr	145
443	BMT-H.133	Non oxidizing, heavy duty metallic Floor Hardeners	1 Kg	37
444	BMT-H.134	Non-metallic Floor Hardeners	1 Kg	30
445	BMT-H.135	High Strength, Non shrink Micro Concrete for structural repair product.	1 Kg	36
446	BMT-H.136	Structural graded polymer modified reinstatement concrete / mortar (Two Part System)	1 Kg	85
447	BMT-H.137	Three Component high performance elastomeric mortar.	1 Kg	950
448	BMT-H.138	Surface treatment crystalline product.	1 Kg	360
449	BMT-H.139	Polyurethane Sealant. 600 ml tube	1 No	730
450	BMT-H.140	Polysulphide Sealant.	1 Kg	450
451	BMT-H.141	Acrylic Latex caulking compound.	1 Kg	335

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
452	BMT-H.142	Fast setting cement based plugging compound	1 Kg	85
453	BMT-H.143	Highly Flexible High Range Polyurethane surface coatings	1 Ltr	650
454	BMT-H.144	Coal Tar Epoxy	1 Kg	190
455	BMT-H.145	Water Based Acrylic Blended High power curing compound	1 Kg	100
456	BMT-H.146	Bituminous hot sealing compound	1 Kg	120
457	BMT-H.147	Bitumen solution primer coating.	1 Kg	85
458	BMT-H.148	Air Entraining Agent Conforming to IS: 9103-99	1 Ltr	120
		REPAIRING & TREATMENT WORKS		
459	BMT-H.149	Providing Tar Felting roof repair with approved brand Tar Felt duly applying one coat of appropriate grade of bitumen in hot condition @ 0.2 Kg/1 Sqm of roof area, fixing tar felt (Conforming to IS 1322-1972 specification), applying second coat of appropriate grade of hot bitumen at 1.20 Kg / 1 Sqm of roof area and spreading course aggregate (sand) at 0.063 Cum per 1 Sqm of roof area finished item.	1 Sqm	260
460	BMT-H.150	Providing waterproofing treatment by supplying and fixing synthetic membrane felt of 1.50 mm thickness, 2.25 Kg per Sq. Mtr. duly applying one coat of Bituminous Emulsion, first coat of bituminous grade 85/25, fix waterproofing membrane, applying second coat of bitumen grade 90/15 after sealing all the joints and abutments with a Gas torch and applying one coat of bituminous aluminum paint for heat resistance for finished item.	1 Sqm	360
461	BMT-H.151	Providing and laying of 3mm thick app modified bitumen membrane treatment to the terrace duly [1] removing of existing tar felt. [2] Cleaning of the surface from dirt, dust and other contaminations. [3]application of one coat of Bitumen primer [4]providing and laying of 3mm thick APP Modified Bitumen Membrane with 100 mm overlap fixing with butane torch.	1 Sqm	490
462	BMT-H.152	providing specialized high performance acrylic polymer modified elastomeric cementitious waterproof coating to the terrace / walls / internal portion of the bathroom & toilets / internal portion of the water tanks duly cleaning of the surface from dirt, dust and other contaminations, providing and application of Two coats of High performance Acrylic polymer modified Elastomeric cementitious waterproof coating (1.8 Sq. Mtr. / Kg /Each Coat)	1 Sqm	390
463	BMT-H.153	Providing specialized high build, elastomeric acrylic bituminous blended coating to the terrace / internal portion of	1 Sqm	360

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
464	BMT-H.154	Providing specialized high solid, cold applied, acrylic elastomeric liquid membrane coating treatment to the terrace / roofing with fiber mesh / geo fabric duly a. Cleaning of the surface from dirt, dust and other contaminations. b. Applying one coat of High solid, Cold applied, Acrylic Elastomeric Liquid Membrane coating c. immediately, Application of one coat of High solid, Cold applied, Acrylic Elastomeric Liquid Membrane coating e. Laying of fiber mesh 40 GSM / Geo fabric 40 GSM on the surface. f. Over the Fiber mesh, Application of two coats of High solid, cold applied, Acrylic Elastomeric Liquid Membrane Coating	1 Sqm	570
465	BMT-H.155	Providing specialized polysulphide sealant treatment to the expansion joints (Size : 25mm x 12mm) duly a]. Chipping and removing of existing covering on expansion joints b]. Cleaning of the surface from dirt, dust and other contaminations c].Application of one coat of - High performance specially designed SBR latex polymer based bonding agent d]. Providing and application of Acrylic Polymer modified reinstatement concrete /mortar to the damaged edges of joint and making the groove. e]. Providing and fixing of masking tape on top of the joint both sides f]. Providing and fixing of Back up support material of Backer rod to leave the depth of 12mm on the joint g]. Providing and application of one coat of polysulphide primer on inner edges of Joint. h]. Providing and application of Two part Polysulphide sealant to a width of 25mm and 12mm depth with putty knife and neat finish i]. Removing of masking tape and providing and application of two coats of Acrylic elastomeric cementitious coating	1 RM	650
	I.	GLASS (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
466	BMT-I.01	Plain Float Glass 4 mm thick	1 sqm	441
467	BMT-I.02	Plain Float Glass 5 mm thick	1 sqm	558
468	BMT-I.03	Plain Float Glass 6 mm thick	1 Sqm	693
469	BMT-I.04	Plain Float Glass 8 mm thick	1 Sqm	932
470	BMT-I.05	Plain Float Glass 10 mm thick	1 Sqm	981

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
471	BMT-I.06	Plain Float Glass 12 mm thick	1 Sqm	1177
472	BMT-I.07	Tinted - Bronze/ Green Glass 4 mm thick	1 sqm	515
473	BMT-I.08	Tinted - Bronze/ Green Glass 5 mm thick	1 sqm	644
474	BMT-I.09	Tinted - Bronze/ Green Glass 6 mm thick	1 Sqm	772
475	BMT-I.10	Tinted - Bronze/ Green Glass 8 mm thick	1 Sqm	1104
476	BMT-I.11	Tinted - Bronze/ Green Glass 10 mm thick	1 Sqm	1287
477	BMT-I.12	Tinted - Bronze/ Green Glass 12 mm thick	1 Sqm	1546
478	BMT-I.13	Pin headed Glass 4 mm thick	1 sqm	331
479	BMT-I.14	Pin headed Glass 5 mm thick	1 sqm	430
480	BMT-I.15	Frosted / Ground Glass 4 mm thick	1 sqm	594
481	BMT-I.16	Frosted / Ground Glass 5 mm thick	1 sqm	747
482	BMT-I.17	Toughened Plain Glass 5 mm (including Glass)	1 sqm	895
483	BMT-I.18	Toughened Plain Glass 6 mm (including Glass)	1 sqm	1034
484	BMT-I.19	Toughened Plain Glass 8 mm (including Glass)	1 sqm	1379
485	BMT-I.20	Toughened Plain Glass 10 mm (including Glass)	1 sqm	1653
486	BMT-I.21	Toughened Plain Glass 12 mm (including Glass)	1 sqm	1929
	J.	PAINTS & POLISHES (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
487	BMT-J.01	Supply of water based Cement Primer of Interior Grade- 1	1 Kg	165
488	BMT-J.02	Supply of water based Cement Primer of Exterior Grade- 2	1 Kg	210
489	BMT-J.03	Supply of Red Oxide Primer Paint for iron works of Grade -1	1 Litre	142
490	BMT-J.04	Supply of Zinc Chromate Yellow Oxide Primer paint for iron works	1 Litre	204
491	BMT-J.05	Supply of Wood Primer	1 Litre	158
492	BMT-J.06	Supply of Metal paste (Putty) for steel works	1 Kg	158
493	BMT-J.07	Supply of Putty for wood work	1 Kg	158
494	BMT-J.08	Supply of White Lead	1 Kg	113
495	BMT-J.09	Supply of Synthetic clear Varnish	1 Litre	158
496	BMT-J.10	Supply of Spirit	1 Litre	111
497	BMT-J.11	Supply of Linseed Oil	1 Litre	63

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
498	BMT-J.12	Supply of thinner for melamine polish/ french polish	1 Litre	146
499	BMT-J.13	Supply of thinner for Poly-urethane polish	1 Litre	299
500	BMT-J.14	Supply of French Polish	1 Litre	207
501	BMT-J.15	Supply of ready made Wax Polish	1 Kg	630
502	BMT-J.16	Supply of Melamine Polish	1 Litre	349
503	BMT-J.17	Supply of Interior Grade Poly-Urethane Polish	1 Litre	710
504	BMT-J.18	Supply of Exterior Grade Poly-Urethane Polish	1 Litre	868
505	BMT-J.19	Supply of wood adhesive compound	1 Kg	246
506	BMT-J.20	Supply of Dry Powder Distemper	1 Kg	47
507	BMT-J.21	Supply of acrylic based Oil Bound washable Distemper having VOC (Volatile Organic Compound) content less than 50 grams/ liter	1 Kg	90
508	BMT-J.22	Supply of synthetic polymer plastic emulsion paint having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	Deleted
509	BMT-J.23	Supply of synthetic polymer luxury plastic emulsion paint of superior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	473
510	BMT-J.24	Supply of Water proof Cement paint	1 Kg	53
511	BMT-J.25	Supply of acrylic exterior emulsion paint having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	196
512	BMT-J.26	Supply of water proof Cement paint pack	25 Kg	1375
513	BMT-J.27	Supply of paint grade white lime for wash	25 Kg	600
514	BMT-J.28	Supply of anti-corrosive grade - 1 bitumen paint of black colour	1 Litre	569
515	BMT-J.29	Supply of grade-1 aluminium paint	1 Litre	284
516	BMT-J.30	Supply of ready mixed Synthetic Enamel paints in all shades Grade - I having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	276
517	BMT-J.31	Supply of ready mixed Synthetic Enamel paints in all shades Grade - II having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	210
518	BMT-J.32	Deleted		eleted
519	BMT-J.33	Deleted		Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
520	BMT-J.34	Deleted		Deleted
521	BMT-J.35	Deleted		Deleted
522	BMT-J.36	Deleted		Deleted
523	BMT-J.37	Deleted		Deleted
524	BMT-J.38	Deleted		Deleted
525	BMT-J.39	Deleted		Deleted
526	BMT-J.40	Supply of wall putty of White Cement or Polymer or Cement based	20 Kg	875
527	BMT-J.41	Altek / PMCC or Equivalent top coat high UV resistant exterior paint	25 Kg	Deleted
528	BMT-J.42	PMCC / Deco orient base or Equivalent exterior Texture.	25 Kg	1000
529	BMT-J.43	PMCC or Equivalent Gold line Exterior Texture	25 Kg	1300
530	BMT-J.44	Deleted	1 Sqm	Deleted
	BMT-J.45	Deleted	1 Sqm	Deleted
531	BMT-J.46	Deleted	1 Sqm	Deleted
532	BMT-J.47	Deleted	1 Sqm	Deleted
533	BMT-J.48	Deleted	1 Sqm	Deleted
534	BMT-J.49	Deleted	1 Sqm	Deleted
535	BMT-J.50	Deleted	1 Sqm	Deleted
536	BMT-J.51	Deleted	1 Sqm	Deleted
537	BMT-J.52	Supply of acrylic emulsion paint exterior grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1Lit	225
538	BMT-J.53	Supply of acrylic emulsion paint weather proof water-based, modified acrylic with silicon additives exterior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1Lit	248
	K.	PARTICLE BOARDS (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
539	BMT-K.01	Plain Particle Board: Interior Grade - 6 mm thick	1 Sqm	Deleted
540	BMT-K.02	Plain Particle Board: Interior Grade - 8 mm thick	1 Sqm	Deleted
541	BMT-K.03	Plain Particle Board: Interior Grade - 10 mm thick	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
542	BMT-K.04	Plain Particle Board: Interior Grade - 12 mm thick	1 Sqm	Deleted
543	BMT-K.05	Plain Particle Board: Interior Grade - 18 mm thick	1 Sqm	Deleted
544	BMT-K.06	Plain Particle Board: Interior Grade - 21.4 mm thick	1 Sqm	Deleted
545	BMT-K.07	Plain Particle Board: Interior Grade - 25 mm thick	1 Sqm	Deleted
546	BMT-K.08	Plain Particle Board: Interior Grade - 35 mm thick	1 Sqm	Deleted
547	BMT-K.09	Plain Particle Board: Exterior Grade- 8 mm thick	1 Sqm	Deleted
548	BMT-K.10	Plain Particle Board: Exterior Grade-12 mm thick	1 Sqm	Deleted
549	BMT-K.11	Plain Particle Board: Exterior Grade-18 mm thick	1 Sqm	Deleted
550	BMT-K.12	Plain Particle Board: Exterior Grade-21.4 mm thick	1 Sqm	Deleted
551	BMT-K.13	Plain Particle Board: Exterior Grade-25 mm thick	1 Sqm	Deleted
552	BMT-K.14	Plain Particle Board: Exterior Grade-35 mm thick	1 Sqm	Deleted
553	BMT-K.15	Melamine faced Single Deco PPB- 8 mm thick	1 Sqm	676
554	BMT-K.16	Melamine faced Single Deco PPB- 12 mm thick	1 Sqm	767
555	BMT-K.17	Melamine faced Single Deco PPB- 18 mm thick	1 Sqm	889
556	BMT-K.18	Melamine faced Single Deco PPB- 25 mm thick	1 Sqm	1007
557	BMT-K.19	Melamine faced Single Deco PPB- 35 mm thick	1 Sqm	1675
558	BMT-K.20	Melamine faced Twin Deco PPB- 8 mm thick	1 Sqm	778
559	BMT-K.21	Melamine faced Twin Deco PPB- 12 mm thick	1 Sqm	889
560	BMT-K.22	Melamine faced Twin Deco PPB-18 mm thick	1 Sqm	1028
561	BMT-K.23	Melamine faced Twin Deco PPB-25 mm thick	1 Sqm	1139
562	BMT-K.24	Melamine faced Twin Deco PPB-35 mm thick	1 Sqm	2140
563	BMT-K.25	Natural Colour-Insulating Board - 12 mm thick	1 Sqm	252
564	BMT-K.26	Natural Colour-Insulating Board - 18 mm thick	1 Sqm	372
565	BMT-K.27	Natural Colour-Insulating Board - 25 mm thick	1 Sqm	474
566	BMT-K.28	White Insulating Board - 12 mm thick	1 Sqm	307
567	BMT-K.29	White Insulating Board - 18 mm thick	1 Sqm	439
568	BMT-K.30	White Insulating Board - 25 mm thick	1 Sqm	390
569	BMT-K.31	Extra for veneered particle Board with commercial veneering on both sides.	1 Sqm	Deleted
570	BMT-K.32	Extra for veneered particle Board with Veneering on both	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		sides with one side teak veneered and other side commercial veneered		
571	BMT-K.33	Extra for veneered particle Board with Teak veneering on both sides	1 Sqm	Deleted
572	BMT-K.34	Medium Fibre Board: Interior Grade - 6 mm thick	1 Sqm	411
574	BMT-K.35	Medium Fibre Board: Interior Grade - 8 mm thick	1 Sqm	466
575	BMT-K.36	Medium Fibre Board: Interior Grade - 12 mm thick	1 Sqm	624
576	BMT-K.37	Medium Fibre Board: Interior Grade - 15 mm thick	1 Sqm	793
577	BMT-K.38	Medium Fibre Board: Interior Grade - 18 mm thick	1 Sqm	885
578	BMT-K.39	Medium Fibre Board: Interior Grade - 25 mm thick	1 Sqm	1257
579	BMT-K.40	Medium Fibre Board: Interior Grade - 30 mm thick	1 Sqm	1519
580	BMT-K.41	Medium Fibre Board: Interior Grade - 35 mm thick	1 Sqm	1657
581	BMT-K.42	Medium Fibre Board: Exterior Grade - 6 mm thick	1 Sqm.	559
582	BMT-K.43	Medium Fibre Board: Exterior Grade - 8 mm thick	1 Sqm.	651
583	BMT-K.44	Medium Fibre Board: Exterior Grade - 12 mm thick	1 Sqm.	862
584	BMT-K.45	Medium Fibre Board: Exterior Grade - 15 mm thick	1 Sqm.	1083
585	BMT-K.46	Medium Fibre Board: Exterior Grade - 18 mm thick	1 Sqm.	1212
586	BMT-K.47	Medium Fibre Board: Exterior Grade - 25 mm thick	1 Sqm.	1616
587	BMT-K.48	Medium Fibre Board: Exterior Grade - 30 mm thick	1 Sqm.	2013
588	BMT-K.49	Medium Fibre Board: Exterior Grade - 35 mm thick	1 Sqm.	2378
589	BMT-K.50	MDF Board: Plain-Interior - 9 mm thick	1 Sqm	377
590	BMT-K.51	MDF Board: Plain-Interior - 12 mm thick	1 Sqm	428
591	BMT-K.52	MDF Board: Plain-Interior - 18 mm thick	1 Sqm	530
592	BMT-K.53	MDF Board: Plain-Interior - 25 mm thick	1 Sqm	637
593	BMT-K.54	MDF Board: Plain-Interior - 30 mm thick	1 Sqm	970
594	BMT-K.55	MDF Board: Plain-Interior - 35 mm thick	1 Sqm	1147
595	BMT-K.56	MDF Board: Plain-Exterior - 9 mm thick	1 Sqm	493
596	BMT-K.57	MDF Board: Plain-Exterior - 12 mm thick	1 Sqm	530
597	BMT-K.58	MDF Board: Plain-Exterior - 18 mm thick	1 Sqm	696
598	BMT-K.59	MDF Board: Plain-Exterior - 25 mm thick	1 Sqm	873

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
599	BMT-K.60	MDF Board: Plain-Exterior - 30 mm thick	1 Sqm	1147
600	BMT-K.61	MDF Board: Plain-Exterior - 35 mm thick	1 Sqm	1323
601	BMT-K.62	MDF Board: Interior-One Side Laminated -9 mm thick	1 Sqm	591
602	BMT-K.63	MDF Board: Interior-One Side Laminated -12 mm thick	1 Sqm	668
603	BMT-K.64	MDF Board: Interior-One Side Laminated -18 mm thick	1 Sqm	777
604	BMT-K.65	MDF Board: Interior-One Side Laminated -25 mm thick	1 Sqm	873
605	BMT-K.66	MDF Board: Interior-One Side Laminated -30 mm thick	1 Sqm	1262
606	BMT-K.67	MDF Board: Interior-One Side Laminated -35 mm thick	1 Sqm	1346
607	BMT-K.68	MDF Board: Exterior-One Side Laminated -9 mm thick	1 Sqm	679
608	BMT-K.69	MDF Board: Exterior-One Side Laminated -12 mm thick	1 Sqm	762
609	BMT-K.70	MDF Board: Exterior-One Side Laminated -18 mm thick	1 Sqm	864
610	BMT-K.71	MDF Board: Exterior-One Side Laminated -25 mm thick	1 Sqm	1010
611	BMT-K.72	MDF Board: Exterior-One Side Laminated -30 mm thick	1 Sqm	1346
612	BMT-K.73	MDF Board: Exterior-One Side Laminated -35 mm thick	1 Sqm	1430
613	BMT-K.74	MDF Board: Interior-Both Side Laminated -9 mm thick	1 Sqm	675
614	BMT-K.75	MDF Board: Interior-Both Side Laminated -12 mm thick	1 Sqm	762
615	BMT-K.76	MDF Board: Interior-Both Side Laminated -18 mm thick	1 Sqm	873
616	BMT-K.77	MDF Board: Interior-Both Side Laminated -25 mm thick	1 Sqm	1097
617	BMT-K.78	MDF Board: Interior-Both Side Laminated -30 mm thick	1 Sqm	1346
618	BMT-K.79	MDF Board: Interior-Both Side Laminated -35 mm thick	1 Sqm	1430
619	BMT-K.80	MDF Board: exterior-Both Side Laminated -9 mm thick	1 Sqm	762
620	BMT-K.81	MDF Board: exterior-Both Side Laminated -12 mm thick	1 Sqm	863
621	BMT-K.82	MDF Board: exterior-Both Side Laminated -18 mm thick	1 Sqm	1021
622	BMT-K.83	MDF Board: exterior-Both Side Laminated -25 mm thick	1 Sqm	1116
623	BMT-K.84	MDF Board: exterior-Both Side Laminated -30 mm thick	1 Sqm	1413
624	BMT-K.85	MDF Board: exterior-Both Side Laminated -35 mm thick	1 Sqm	1515
625	BMT-K.86	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276-6 mm thick	1 sqm	253
626	BMT-K.87	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 8 mm thick	1 sqm	339

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
627	BMT-K.88	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 10 mm thick	1 sqm	425
628	BMT-K.89	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 12 mm thick	1 sqm	522
629	BMT-K.90	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 16 mm thick	1 sqm	689
630	BMT-K.91	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 20 mm thick	1 sqm	840
631	BMT-K.92	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 25 mm thick	1 sqm	1055
632	BMT-K.93	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 30 mm thick	1 sqm	1281
633	BMT-K.94	CEMENT BONDED PARICLE BOARD CONFORMING TO IS 14276- 40 mm thick	1 sqm	1712
634	BMT-K.95	PRE LAMINATED CEMENT BONDED PARTICLE BOARD-6 mm thick	1 sqm	570
635	BMT-K.96	PRE LAMINATED CEMENT BONDED PARTICLE BOARD-8 mm thick	1 sqm	624
636	BMT-K.97	PRE LAMINATED CEMENT BONDED PARTICLE BOARD-10 mm thick	1 sqm	667
637	BMT-K.98	PRE LAMINATED CEMENT BONDED PARTICLE BOARD-12 mm thick	1 sqm	732
638	BMT-K.99	PRE LAMINATED CEMENT BONDED PARTICLE BOARD-16 mm thick	1 sqm	818
639	BMT-K.100	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 6mm thick	1 sqm	312
640	BMT-K.101	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 8mm thick	1 sqm	377
641	BMT-K.102	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 10mm thick	1 sqm	463
642	BMT-K.103	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 12mm thick	1 sqm	570
643	BMT-K.104	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4'	1 sqm	753

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		10'X4' - 16mm thick		
644	BMT-K.105	Cement Bonded Board conforming to IS:14862-2000 - 4mm Thick	1 Sqm	159
645	BMT-K.106	Cement Bonded Board conforming to IS:14862-2000 - 6mm Thick	1 Sqm	228
646	BMT-K.107	Cement Bonded Board conforming to IS:14862-2000 - 8mm Thick	1 Sqm	293
647	BMT-K.108	Cement Bonded Board conforming to IS:14862-2000 - 10mm Thick	1 Sqm	337
648	BMT-K.109	Cement Bonded Board conforming to IS:14862-2000 - 12mm Thick	1 Sqm	420
649	BMT-K.110	Cement Bonded Board conforming to IS:14862-2000 - 14mm Thick	1 Sqm	470
650	BMT-K.111	Cement Bonded Board conforming to IS:14862-2000 - 16mm Thick	1 Sqm	534
651	BMT-K.112	Cement Bonded Board conforming to IS:14862-2000 - 18mm Thick	1 Sqm	606
652	BMT-K.113	Cement Bonded Board conforming to IS:14862-2000 - 20mm Thick	1 Sqm	642
653	BMT-K.114	Laminate Sheets - Glossy Finish: 1.00 mm thick	1 Sqm	403
654	BMT-K.115	Laminate Sheets - Glossy Finish: 1.50 mm thick	1 Sqm	577
	BMT-K.116	Laminate Sheets - Glossy Finish: 1.80 mm thick	1 Sqm	633
655	BMT-K.117	Laminate Sheets - Mat Finish: 1.00 mm thick	1 Sqm	428
656	BMT-K.118	Laminate Sheets - Mat Finish: 1.50 mm thick	1 Sqm	596
657	BMT-K.119	Laminate Sheets - Mat Finish: 1.80 mm thick	1 Sqm	643
658	BMT-K.120	Teak Veneer Lamination - 4 mm thick - Pencil Grains	1 Sqm	450
659	BMT-K.121	Teak Veneer Lamination - 4 mm thick - Natural Grains	1 Sqm	829
660	BMT-K.122	8 mm thick V-Designer Board	1 Sqm	407
661	BMT-K.123	50 mm thick V-PANEL	1 Sqm	1071
662	BMT-K.124	75 mm thick V-PANEL	1 Sqm	1285
	L.	PLYWOOD (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
663	BMT-L.01	3 Ply - 4 mm thick Plywood(IS:303) MR Grade	1 Sqm	407

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
664	BMT-L.02	5 Ply - 6 mm thick Plywood(IS:303) MR Grade	1 Sqm	449
665	BMT-L.03	5 Ply - 8 mm thick Plywood(IS:303) MR Grade	1 Sqm	528
666	BMT-L.04	5 Ply - 9 mm thick Plywood(IS:303) MR Grade	1 Sqm	528
667	BMT-L.05	9 Ply - 12 mm thick Plywood(IS:303) MR Grade	1 Sqm	662
668	BMT-L.06	9 Ply - 15 mm thick Plywood(IS:303) MR Grade	1 Sqm	975
669	BMT-L.07	9 Ply - 18 mm thick Plywood(IS:303) MR Grade	1 Sqm	956
670	BMT-L.08	3 Ply - 4 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	465
671	BMT-L.09	5 Ply - 6 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	546
672	BMT-L.10	5 Ply - 8 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	680
673	BMT-L.11	5 Ply - 9 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	642
674	BMT-L.12	9 Ply - 12 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	839
	BMT-L.13	9 Ply - 15 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1205
675	BMT-L.14	9 Ply - 19 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1209
676	BMT-L.15	3 Ply-4 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	602
677	BMT-L.16	5 Ply - 6 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	784
678	BMT-L.17	5 Ply - 9 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1005
679	BMT-L.18	9 Ply - 13 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1280
680	BMT-L.19	5 Ply - 9 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1311
681	BMT-L.20	9 Ply - 12 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1529
	M.	CEILINGS, WALL PARTITIONS & WALL LININGS		
682	BMT-M.01	Gypsum Board tiles of size notless than 0.595 M x 0.595 M of 12.5 mm thick as per IS 2095 -1992	1 Sqm	281
683	BMT-M.02	Gypsum Board tiles of size notless than 0.595 M x 0.595 M of 9 mm thick as per IS 2095 -1992	1 Sqm	274
684	BMT-M.03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 - 1993	1 Sqm	248
685	BMT-M.04	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	74

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
686	BMT-M.05	G.I. Ceiling Section 51.5 mm x 26 mm x 10.5 mm x 0.55 mm thick	1 RM	85
687	BMT-M.06	G.I. Intermediate Section 45 mm x 15 mm x 15 mm x 0.9 mm	1 RM	84
688	BMT-M.07	G.I. Perimeter Channel - 20 mm x 27 mm x 30 mm (web) of 0.55 mm thick	1 RM	74
689	BMT-M.08	G.I.-Precoated Fine line Grid 25 mm x 25 mm x 0.7 mm	1 RM	41
690	BMT-M.09	G.I.-Precoated Fine line Grid 15 mm x 25 mm x 0.7 mm	1 RM	37
691	BMT-M.10	GI - Precoated - T-Sec- 24 mm x 38 mm x 0.7 mm thick	1 RM	54
692	BMT-M.11	Hot dipped GI Angle - Precoated - Grid: 19 mm x 19 mm	1 RM	40
693	BMT-M.12	Polyester painted GI - T Section - 24 x 32 mm	1 RM	50
694	BMT-M.13	Polyester painted GI - T Section - 24 x 25 mm	1 RM	45
695	BMT-M.14	Polyester painted GI - T Section - 24 mm x 27 mm	1 RM	46
696	BMT-M.15	Aluminium Angle : 24 mm x 24 mm	1 RM	26
697	BMT-M.16	Anodised Aluminium T Section : 24 x 24.5 x 2.4 mm	1 RM	34
698	BMT-M.17	Connecting Clips	1 Each	2
699	BMT-M.18	Rawl Plug	1 Each	2
700	BMT-M.19	6 mm Nylon Rawl Plug	1 Each	3
701	BMT-M.20	Soffit Cleats	1 Each	2
702	BMT-M.21	Drywall Screws - 25 mm	1 Each	2
703	BMT-M.22	Jointing Compound	1 Kgs	29
704	BMT-M.23	Jointing Paper Tape	1 RM	5
705	BMT-M.24	Drywall Top Coat	1 Litre	142
706	BMT-M.25	Universal Holding Clips	1 Each	3
707	BMT-M.26	4 mm Dia GI Connecting Rod	1 RM	12
708	BMT-M.27	2 mm Dia GI Connecting Rod	1 RM	10
709	BMT-M.28	14 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 80% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity λ = 0.052 to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	590
710	BMT-M.29	15 mm - Mineral Fiber sheet 600 x 600 of Board / Tegular Edge tiles with a Humidity Resistance of 90% RH, Average NRC 0.50, Light Reflectance >80%, Thermal Conductivity λ = 0.052 to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	690

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
711	BMT-M.30	16 mm - Tegular Edge 600 x 600 of Board / Tegular/ Micro look Edge tiles with a Humidity Resistance of 99% RH, Average NRC 0.60, Light Reflectance >88%, Thermal Conductivity $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	743
712	BMT-M.31	12 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	1 Sqm	456
713	BMT-M.32	15 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	1 Sqm	Deleted
714	BMT-M.33	Perforated wall panels channeled wood works sheets of width 128 mm, thickness of 16mm and length 2440 mm made of a high density particle board substrate with a laminated facing as per the approved shade/ Species & Finish and a melamine balancing layer on the reverse side, with a special perforation pattern fluted perforation on the visible surface with a minimum sag resistance of RH90 and a fire rating class of 1 as per Part 7 of BS 476 with a "tongue-and-grooved" edges and the back of the perforated panel is with sound absorbing non-woven acoustical fleece	1 Sqm	2738
715	BMT-M.34	Vinyl Flooring Sheets/ tiles having a nominal total thickness of 2 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	850
716	BMT-M.35	Vinyl Composition Floor Tiles of size 305 mm x 305 mm having an overall thickness of 2.0mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	582
717	BMT-M.36	Vinyl Flooring Sheets or tiles having a nominal total thickness of 1.5 mm with a wearing surface impregnated polyurethane homogeneous mixture of PVC, Plasticizers, Urethane, color pigments with wearing resistance and Fire Resistance as per standards	1 Sqm	421
718	BMT-M.37	Supply of Thermocole 12 mm thick sheets	1 Sqm	26
719	BMT-M.38	Supply of Thermocole 19 mm thick sheets	1 Sqm	46
720	BMT-M.39	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	1 Sqm	1222

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		wall top coat as per specification.		
721	BMT-M.40	Providing wooden panelling 12 mm thick Novapan one side laminated sheet fixed on wooden frame of BT wood size 50.8 mm x 25.4 mm (2"x1") at distance of 609.6mm (2'-0") intervals of both ways providing 3/4" x 1/2" (19.05 mm x 12.7 mm) size BT wood ornamental cover beading and necessary screws, fevicol glue complete for finished item of work.	1 Sqm	1810
722	BMT-M.41	Supply , manufacturing , installing of library Rack of 19 mm thick ISI marked commercial ply All round boxing verticals, Horizontal for depth of 609.6mm (2'-0) and shelves with 3.5 mm thick teak veneer covered with on exposed surface externally and internally and each panels with 6mm thick ISI commercial ply with 3.5 mm thick teak veneer for glazed shutters teak wood size 55 mm x 28mm with 5 mm thick glass fixed with ornamental beading and other ornamental beading is covered as per drawing including brass hinges, ornamental handles, ball catchers, buffers, locking system etc, and all the commercial ply exposed edges are to be covered with 6 mm thick teak wood lipping. All the teak veneer and teak wood and ornamental beading is coated with polishing and a coat of melamine finish etc, complete for finished item of work.	1 Sqm	Deleted
725	BMT-M.42	Calcium Silicate Boards - 6mm thick	1 Sqm	230
726	BMT-M.43	Calcium Silicate Boards - 8mm thick	1 Sqm	307
727	BMT-M.44	Calcium Silicate Boards - 10mm thick	1 Sqm	385
728	BMT-M.45	Calcium Silicate Boards - 12mm thick	1 Sqm	461
729	BMT-M.46	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	1290
730	BMT-M.47	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	1444
731	BMT-M.48	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	1 Sqm	1597

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 12mm thick Calcium silicate boards		
732	BMT-M.49	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: using 8mmthick Calcium silicate boards	1 Sqm	765
733	BMT-M.50	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 10mm thick Calcium silicate boards	1 Sqm	843
734	BMT-M.51	Supply and fixing of wall lining fixing to GI channels of perimeter channel 30mm x 27mm x 0.55 thick and ceiling channels of 51.1mm x 26mm x 10.5mm x 0.55mm thick and fixing and finishing using joint compound and glass fibre tape complete finish as per specification without painting for finished item of work: Using 12mm thick Calcium silicate boards	1 Sqm	919
735	BMT-M.52	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	4288
736	BMT-M.53	Supplying and fixing of false ceiling using Plaster of paris Boards 12 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	441
737	BMT-M.54	Supplying and fixing of false ceiling using Plaster of paris Boards 10 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete	1 Sqm	367
738	BMT-M.55	Designer ceiling Cement Boards -thickness 3.2 mm	1 Sqm	259
739	BMT-M.56	High pressure steam cured Cement Boards 4 mm thick	1 Sqm.	138

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
740	BMT-M.57	High pressure steam cured Cement Boards 6 mm thick	1 Sqm.	208
741	BMT-M.58	High pressure steam cured Cement Boards 8 mm thick	1 Sqm.	276
742	BMT-M.59	High pressure steam cured Cement Boards 10 mm thick	1 Sqm.	346
743	BMT-M.60	High pressure steam cured Cement Boards 12 mm thick	1 Sqm.	415
744	BMT-M.61	High pressure steam cured Cement Boards 14 mm thick	1 Sqm.	484
745	BMT-M.62	High pressure steam cured Cement Boards 16 mm thick	1 Sqm.	554
746	BMT-M.63	High pressure steam cured Cement Boards 18 mm thick	1 Sqm.	622
747	BMT-M.64	High pressure steam cured Cement Boards 20 mm thick	1 Sqm.	692
748	BMT-M.65	High pressure steam cured designer Cement Boards 4 mm thick	1 Sqm.	204
749	BMT-M.66	High pressure steam cured designer Cement Boards 6 mm thick	1 Sqm.	300
750	BMT-M.67	Supply and fixing of wall panelling (water, fire and Termite proof) with frame work made of GI stud profile of size 48 x 40 10 x 0.6 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 with 8 mm thick E-board / 6 mm thick E-board classic 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". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 8 mm	1 Sqm.	837
751	BMT-M.68	Supply and fixing of wall panelling (water, fire and Termite proof) with frame work made of GI stud profile of size 48 x 40 10 x 0.6 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 with 8 mm thick E-board / 6 mm thick E-board classic 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". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. - With 6 mm Designer	1 Sqm.	893
752	BMT-M.69	Supply and fixing double skin partition with Frame work made of GI stud profile of size 48 x 40 x 10 x 0.6 mm thick placed at every 610 mm C/C intervals and 915 mm horizontal intervals duly fixed with self expansion screws, the E-board of 8 mm thick cladded around with self tapping self embedding screws fixed at every 300 mm (centres) leaving 3 mm gap	1 Sqm.	1227

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		between two panels of width 2'-0" (610 mm). 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.		
753	BMT-M.70	Providing and fixing of 50mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 4mm thick non-asbestos fibre reinforced cement sheets 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 14x50x25 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 1mm thick GI Channel of size 38x50x38mm 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	1660
754	BMT-M.71	Providing and fixing of 75mm thick SOLID WALL PANEL Sandwich panels made of light Weight FRACC two 4mm thick non-asbestos fibre reinforced cement sheets 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 14x75x25 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 1mm thick GI Channel of size 38x75x38mm duly fixed to the existing ceiling with 6x60mm nylon self expansion screws at 600 mm C/C. All the tongue and groove joints of the panels have to be properly cleaned and both the panels have to be fixed by applying the mixture of fly ash and sodium silicate in between and Everest jointing compound all the exposed joints. The rate includes cost of 75mm SOLID WALL PANEL panels, G.I. Floor and ceiling channel. The panels can be flushed by using paper tape and Everest jointing compound all complete.	1 Sqm.	1982
755	BMT-M.72	Supply and fixing of CEMENT BONDED PARTICLE BOARDS (IS 14276) false ceiling using 8MM CEMENT BONDED PARTICLE BOARDS with galvanized and pre	1 Sqm	1039

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		<p>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. CEMENT BONDED PARTICLE BOARDS lay on the grid. The cost inclusive of necessary hardware, labor, one coat of primer (Both side) and two coats of smooth finish on visible side.</p>		
756	BMT-M.73	<p>Supply and fixing CEMENT BONDED PARTICLE BOARDS (IS 14276) wall paneling using 10 MM CEMENT BONDED PARTICLE BOARDS 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. CEMENT BONDED PARTICLE BOARDS 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 Altek primer and two coats of Altek smooth finish and cost & conveyance of all materials, labor charges etc. complete as per the direction of Engineer in charge.</p>	1 Sqm	1371
757	BMT-M.74	<p>Supply and fixing CEMENT BONDED PARTICLE BOARDS (IS 14276) double skin partition using with 10 MM CEMENT BONDED PARTICLE BOARDS made out of G.I. track section of size 50mm x 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. CEMENT BONDED PARTICLE BOARDS 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 Alltek primer and two coats of Alltek smooth finish and cost and conveyance of all materials to site, labor charges etc., complete as per the direction of Engineer in charge.</p>	1 Sqm	2003
758	BMT-M.75	<p>Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS double skin partition using with 10 mm CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS 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</p>	1 Sqm	2759

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		the wall / roof. LAM 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.		
759	BMT-M.76	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS wall paneling using 12MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS 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. LAM is to be fixed to frame by means of self-taping screws placed at every 300mm intervals leaving 3mm gap between two panels. The cost inclusive of Conveyance of materials, Labor charges etc., complete as per the direction of Engineer in charge	1 Sqm	2083
760	BMT-M.77	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS aluminum glazed partitions using 10MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS and 5.00 mm thick plain glass to full height. Using with LAM to a height of 0.91 meter at bottom panel and remaining height with glass and aluminum sections anodized to 12 to 15 microns and of sections of size 37mm x 62mm and 1.5mm thickness with one meter centre to centre duly fixed with clip beading on both sides including fixing the frame to pillars by M.S. flats, bolts and nuts including cost and conveyance of all materials etc., complete as directed during execution.	1 Sqm	3435
761	BMT-M.78	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.-Thermocole) 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 "Rajshri" PVC 'C' channel of size 50X100mm with feathered edges shall be fixed on the floor & 50X75mm with feathered edges plain/printed /prelam PVC 'C' channel. In between adjoining EPS sandwiched PVC partitions panel 5mm thickX75mm width plain/printed/prelam PVC sheet feathered at edges shall be stuck on front & back face using solvent cement etc. in places where two partitions meet to from an 'L' shape the panels are joined 5mm thick plain/printed/prelam heat moulded "Rajshri" PVC 'L' section of size 75mmX75mm with feathered edges shall be fixed on front & back side. This is done to maintain the symmetry of	1 sqm	2950

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
762	BMT-M.79	Providing and fixing INSULATED PVC WALL PANELING shall consist of PVC insulated panels having wall thickness of 1mm /1.5mm/2mm PVC sheet and the desired thickness of EPS (dependent on the insulation required) screwed into the wall using screws of adequate length. The screws shall be placed at a distance of 150mm and shall be 25mm from the edge of the insulated panel on all from sides of the panel. The PVC strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck using solvent cement adhesive at the places where two panels are joined, so a to cover the screw of both the panels, using solvent cement. 90 heat bent strips of 5mm thick PVC sheets of width 75mm X75mm feathered at the edges shall be stuck at wall joints / pillars etc. , complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 sqm	2185
763	BMT-M.80	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 grove 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 c entre. 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 n the size of the wall. However it must ensured that a strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck at the places where two panels are joined, using solvent cement. , complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 sqm	2076
764	BMT-M.81	Providing and fixing false ceiling consisting of 600mmX600mm, Solid PVC insulation panels having wall thickness of 1mm thick plain PVC rigid foam sheet and EPS as defined in of desired thickness depending on insulation required shall be insert in a frame work made using anodized aluminium Tee section of sizes 1"X1" (25X25mm, 19 gauge	1 sqm	1350

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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, manufacture's specification & drawing		
765	BMT-M.82	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Fissura Fine Model	1 Sqm	368
766	BMT-M.83	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Speckle Model	1 Sqm	411
767	BMT-M.84	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Textura Model	1 Sqm	454
768	BMT-M.85	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Standard Regular Edge	1 Sqm	465
769	BMT-M.86	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Fissura Fine Model	1 Sqm	476
770	BMT-M.87	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Speckle Model	1 Sqm	497
771	BMT-M.88	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Textura Model	1 Sqm	539
772	BMT-M.89	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 250mm with a wall thickness of 1mm \pm 0.3mm with tongue and groove system, provided with necessary arrangements for electrical connections, complete, for finished item of work.	1 Sqm.	1498
773	BMT-M.90	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 \pm 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.	1419
774	BMT-M.91	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	Sqm.	2490

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		section having overall dimensions of 6 X 250mm with a wall thickness of 1mm \pm 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.		
775		NCL or equivalent Partitions: Supply and fixing of partitions made of seccolor pre-painted steel (base steel as per IS 513 of 0.58 mm thick 'D' quality, galvanized as per IS 277 with Zinc of 120 GSM). Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick alkyd backer. Section for outer frame should be 46x52mm, section for shutter should be 46x46mm, section for mullion should be 46x70mm, section for beading should be 18x25mm and section for middle and bottom rail (Lock Rail and Kick Rail) of size should be 23x130mm. The partition should be paneled with 9mm pre-laminated particle board to a height of 0.91m from the bottom, and remaining height with 5mm thick plain glass With Ethyl Propylene Diamine 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 Diamine 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.		
776	BMT-M.92	Fixed Partition: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm.	1 sqm	4925
777	BMT-M.93	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	5616
778	BMT-M.94	Supply & fixing of 50 mm thick sandwiched panel of two fiber-reinforced cement sheets enclosing a lightweight concrete core composed of portland cement, binders and a mix of siliceous and micaceous material aggregate having Tongue and Groove joint for partitions and walls using G.I. Flooring & Ceiling channels, hardware, Labour, transportation, wastages, etc., as a complete item of work excluding finishing, fittings & fixtures.	Sqm.	Deleted
779	BMT-M.95	Supply & fixing of 75 mm thick sandwiched panel of two fiber-reinforced cement sheets enclosing a lightweight concrete core composed of portland cement, binders and a mix of	Sqm.	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		siliceous and micaceous material aggregate having Tongue and Groove joint for partitions and walls using G.I. Flooring & Ceiling channels, hardware, Labour, transportation, wastages, etc., as a complete item of work excluding finishing, fittings & fixtures.		
780	BMT-M.96	Supply of sandwiched panel of two fiber-reinforced cement sheets enclosing a lightweight concrete core composed of Portland cement, binders and a mix of siliceous and micaceous material aggregate panels of 50mm thick x 600mm standard width x 2400mm, 2700mm, 3000mm & 3300mm lengths	1 Sqm.	Deleted
781	BMT-M.97	Supply of sandwiched panel of two fiber-reinforced cement sheets enclosing a lightweight concrete core composed of Portland cement, binders and a mix of siliceous and micaceous material aggregate panels of 75mm thick x 600mm standard width x 2400mm, 2700mm, 3000mm & 3300mm lengths	1 Sqm.	Deleted
782		Providing & fixing Pre-coated G.I. Wall angle size 22mm X 20mm X 0.4 mm thick of 3050mm long fixed to the brick wall/partition at the perimeter of ceiling with nylon sleeves and screw at 610 mm centres. Then suspending main G...! Frame "T" section size of 32mm X 24mm X 0.30mm thick of 3600mm long from soffit in one direction with the help of Rawl Plug and G.I. Wire/Rod of 3mm diameter with 1220mm centres G.I. Cross "T" section of size 25mm X 24mm X 0.30mm thick of 600mm long is inserted into the slots provided in main "T" at 600mm centres to form a grid of 600mm X 600mm. 12/ 15mm tiles of size 600mm X 600mm can be laid on to the grid etc. tiles with a Humidity resistance of 95% RH, Average NRC 0.55 to 0.60, Light reflectance >85% K value 0.052-0.57, Fire performance class O/Class 1 (BS 476) along with surface 3 coats of white paint as directed by department officers.		
783	BMT-M.98	Regular Pin Holes PH-001 (Square & Tegular Edge) 12mm	1 Sqm.	Deleted
784	BMT-M.99	Fin Fisured Model FF-002 (Square & Tegular Edge) 12mm	1 Sqm.	Deleted
785	BMT-M.100	Random Holes AF-003 (Square & Tegular Edge) 12mm	1 Sqm.	Deleted
786	BMT-M.101	Random Pin Holes APH-004 (Square & Tegular edge) 12 mm	1 Sqm.	Deleted
787	BMT-M.102	Sand Face ASF-005 (Square & Tegular Edge) 12mm	1 Sqm.	Deleted
788	BMT-M.103	Regular Pin Holes PH-001 (Square & Tegular Edge) 15mm	1 Sqm.	Deleted
789	BMT-M.104	Fin Fisured Model FF-002 (Square & Tegular Edge) 15mm	1 Sqm.	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
790	BMT-M.105	Random Holes AF-003 (Square & Tegular Edge) 15mm	1 Sqm.	Deleted
791	BMT-M.106	Random Pin Holes APH-004 (Square & Tegular Edge) 15 mm	1 Sqm.	Deleted
792	BMT-M.107	Sand Face ASF-005 (Square & Tegular Edge) 15mm	1 Sqm.	Deleted
793	BMT-M.108	Vinyl laminated MPL Gypsum Panels 600 X 600 X 9 mm	1 Sqm.	Deleted
794	BMT-M.109	Supply and fixing of wall panelling of 8 mm thick V-BOARD(IS 14862)provided 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-tapping, self-embedding screws fixed around at every 300 mm (centres) leaving a 3 mm gap. The Gap will be covered with a decorative beading or jointing compound. Surface will be given a smooth finish with one coat of primer. Inclusive of all taxes.	1 Sqm	Deleted
795	BMT-M.110	Supply and fixing of wall panelling of 10 mm thick V-BOARD(IS 14862) provided 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-tapping, self-embedding screws fixed around at every 300 mm (centres) leaving a 3 mm gap. The Gap will be covered with a decorative beading or jointing compound. Surface will be given a smooth finish with one coat of primer. Inclusive of all taxes.	1 Sqm	Deleted
796	BMT-M.111	Supply and fixing double skin 8mm thick V- BOARD(IS 14862) partition with Frame work made of GI stud profile of size 48x40x10x 0.55 mm thick placed at every 610 mm C/C intervals and 1220 mm horizontal intervals duly fixed with self-expansion screws, the V- Board of 8 mm thick cladded around with self-tapping self-embedding screws fixed at every 300 mm (centres) leaving a 3 mm gap. The Gap will be covered with a decorative moulding surface will be given a smooth finish with one coat of primer. The rate Inclusive of cost and conveyance of all materials and labour charges etc., Complete.	1 Sqm	Deleted
797	BMT-M.112	Supply and installation of V-PLANKS(IS 14862) of size 150 x 3000 x 8mm manufactured by on to an existing steel structure made using Top hat profile / furring channel of 51mm web, 22mm flange of 0.5mm thick (minimum) fastened to the plastered brick wall using anchor bolts / anchor screws, spaced at every 2' (610mm). V planks are screwed to the furring channel using self-drilling screws of 8g x 25mm	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		(minimum) at every 2' at distance of 15mm from the edge of the plank. V Planks fixing is started from the bottom, followed by next plank overlapped by 25mm on to the bottom plan thereby hiding the screws perfectly and continued up to the top. Water based cement primer should be applied to the planks before finishing with the exterior grade paints. (up to 3 floors) Above 3 floors labour charges will be extra and steel grid will change.		
798	BMT-M.113	Supply and installation of V- PLANKS(IS 14862) of size 200 x 3000 x 8mm thick manufactured by on to an existing steel structure made using Top hat profile / furring channel of 51mm web, 22mm flange of 0.5mm thick (minimum) fastened to the plastered brick wall using anchor bolts / anchor screws, spaced at every 2' (610mm). V planks are screwed to the furring channel using self-drilling CSK screws of 8g x 25mm (minimum) at every 2' at distance of 15mm from the edge of the plank. V- Planks fixing is started from the bottom, followed by next plank overlapped by 25mm on to the bottom plan thereby hiding. the screws perfectly and continued up to the top. Water based cement primer should be applied to the planks before finishing with the exterior grade paints. (up to 3 floors) Above 3 floors labour charges will be extra and steel grid will change.	1 Sqm	Deleted
		DRY WALL PARTITION WITH 50 MM THICK V-PANEL		
799	BMT-M.114	Supply& fixing of 50 mm thick V-PANELcomprise of two 5mm thick V-Boards (asbestos-free fibre reinforced cement sheetsconforming toIS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. V-Panels 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 V-PANELS, G.I. Floor and ceilingChannel.	1 Sqm	Deleted
800	BMT-M.115	Supply& fixing of 75 mm thick V-PANELcomprise of two 5mm thick V-Boards (asbestos-free fibre reinforced cement	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		<p>sheet conforming to IS 14862) strongly bonded with core material which is light weight concrete mix of Portland cement, expanded polystyrene bead aggregates and admixture. V-Panels 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 V-PANELS, G.I. Floor and ceiling Channel.</p>		
801	BMT-M.116	CEMENT BONDED PARTICLE PLANK- 8 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	668
802	BMT-M.117	CEMENT BONDED PARTICLE PLANK- 10 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	819
803	BMT-M.118	CEMENT BONDED PARTICLE PLANK- 12 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	1002
	N.	DOORS (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
804	BMT-N.01	<p>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</p>	1 Rm	325

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
805	BMT-N.02	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.	2362
806	BMT-N.03	Providing and fixing 30mm thick BRAND FACTORY MADE BOTHSIDE PRELAM SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of MS. Tubes of 19gauge thickness and size of 19mmX19mm for stiles, top and bottom rails. MS. Frame shall have a coat of steel primers of approved make and manufacture. MS. Frame covered with 5mm thick heat moulded "Rajshri" 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 Rajshri 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 Rajshri Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10mm (5mmX2) thick, 20mmwide cross Pac sheet shall be provided as gap insert for top and bottom rail. 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.	1 sqm	2700

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
807	BMT-N.04	Providing and fixing 30mm thick BRAND 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 "Rajshri" single side Prelam Pac 'C' channel of size 30mmX50mm to form stiles. 5mm thick & 75mm wide single side prelim Pac sheets shall be for the top, bottom and lock rails. 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	2450
808	BMT-N.05	SUPPLY & FIXING or equivalent SINGLE SIDE PRELAM SOLID PANEL PVC DOOR FRAME (CHOUKHAT) Providing and fixing factory made Pac single side Prelam door frame of the size 50X47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid Pac single side prelam sheet, meter cut at two corners and joined with 2nos. of 150mm long brackets of 1515mm MS. Square tube. The two vertical door profiles are to be reinforced with 19X19mm MS. square tube of 19gauge. The door frame shall be fixed to the wall using 65/100mm long MS. Screws through the frame by using Pac fasteners. a minimum of 4nos. of screws to be provided for each vertical member and minimum 2nos. for horizontal member etc. complete as per manufacture specification and direction of Engineer-in-charge.	1 Rm	340
809	BMT-N.06	Providing and fixing 35mm thick BRAND 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	1 sqm	2900

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
810	BMT-N.07	MOULDED PVC DOOR – WOOD FREE Providing and fixing 30mm thick Rajshri Brand factory made Moulded door shutter- wood free consisting of frame made out of MS. tubes 19gauge thickness and size of 25mmX25mm for stiles, top and bottom rails. MS. Frame shall have a coat of steel primers. The inner panel shall consist of 25mm thick High density EPS conforming to IS 4671-1984 bounded with 2mm thick termite proof, water proof and fire resistant 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	1 sqm	2475
811	BMT-N.08	Providing and fixing 30mm thick BRAND 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 “Rajshri” PVC ‘C’ channel of size 30mm thickness, 90mm width out of which 75mm shall be flat and 15mm shall be flat and 15mm shall be bent in 900 on the inner side to from top and bottom rail land 130mm wide PVC sheet out of which 100mm shall be flat and 154mm shall be bent in 900 on both side to from lock rail, 10mm(5mmX2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panel will be of G.I.wire mesh of 24gauge to be fitted in by ‘C’ channel of size 35mm X10mm on the either side in the stiles. The inner side ‘C’ channel is fixed by 19mmX19mm MS. Tube on both sides with screws. The wire mesh in top bottom & lock rail is sealed with 15mm X 15mm tube with G.I.wire 10mm(5mmX2) thick PVC strip of 25mm width is to be stuck& nails on both side of G.I. wire mesh interior at the top, bottom & lock rail. An additional 5mm thick PVC srip of 20mm width is to be stuck on the interior side of the ‘C’ channel using PVC solvent	1 sqm	2200

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		cement adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawings		
812	BMT-N.09	Providing and fixing PVC door cladding to the flush doors shutters . For the new doors it shall be pasted with Fevicol SSR 998 or nailed to the old doors. complete as per direction of Engineer –in – charge, manufacturers specification and drawing - 1 mm thick	1 sqm	377
813	BMT-N.10	Providing and fixing PVC door cladding to the flush doors shutters . For the new doors it shall be pasted with Fevicol 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	430
814	BMT-N.11	Providing and fixing PVC door cladding to the flush doors shutters . For the new doors it shall be pasted with Fevicol SSR 998 or nailed to the old doors. complete as per direction of Engineer –in – charge, manufacturers specification and drawing - 2.0 mm thick	1 sqm	485
815	BMT-N.12	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 25 mmthick conforming to IS:2202	1 sqm	1909
816	BMT-N.13	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 30 mmthick conforming to IS:2202	1 sqm	2003
817	BMT-N.14	Flush door shutters, solid bond wood block board type with teak ply on both faces.: 35 mmthick conforming to IS:2202	1 sqm	2188
818	BMT-N.15	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 25 mmthick conforming to IS:2202	1 sqm	1088
819	BMT-N.16	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 30 mmthick conforming to IS:2202	1 sqm	1314
820	BMT-N.17	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 35 mmthick conforming to IS:2202	1 sqm	1488
821	BMT-N.18	Flush door shutters, solid bond wood block board type with commercial ply on both faces.: 40 mmthick conforming to IS:2202	1 sqm	1685
822	BMT-N.19	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 20 mmthick conforming to IS:2202	1 sqm	2097
823	BMT-N.20	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face	1 sqm	2038

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		(lipping): 25 mmthick conforming to IS:2202		
824	BMT-N.21	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 30 mmthick conforming to IS:2202	1 sqm	2256
825	BMT-N.22	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 35 mmthick conforming to IS:2202	1 sqm	2461
826	BMT-N.23	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 40 mmthick conforming to IS:2202	1 sqm	2812
827	BMT-N.24	Supply and fixing of E-board door shutter with alround 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 E-board with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 Nos. M.S. nickel coated 250 mm long 1 No. M.S. Tower bolts including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm.	Deleted
828	BMT-N.25	Providing and fixing 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 rivet for shutter with necessary stiffeners hinges and screws. E-board shutter with alround 'U' lipping of size 15 X 18 X 15 mm made from 0.8 mm thick CRCA powder coated steel profile with 16 mm thick E-board with necessary screws fixed at every 1'-0" interval 250 mm long aldrops 2 Nos. MS Nickel coated 250 mm long 1 No. MS tower bolt including cost and conveyance. One coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.	1 Sqm.	Deleted
829	BMT-N.26	Supply and fixing of Cement Bonded Particle Board (IS 14276) cup board frames and shutters and using 16mm Cement Bonded Particle Board duly painted both sides with one coat of primer and two coats of synthetic / enamel paint of approved shade and brand including fixing of hardware like M.S. powder coated Piano hinges of size 18mm x 18mm, brass ball catches, Aluminum tower bolts and handles , Godrej locks, Fevicol, screws and nails including cost and conveyance of all materials, labor charges, all incidental and operational charges etc., complete for finished item of work at site as per the directions of Engineer in Charge.	1 sqm	2350

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
830	BMT-N.27	Supply and fixing Cement Bonded Particle Board (IS 14276) single door shutter using with 16MM Cement Bonded Particle Board with all-round "U" section of size 12mmx18mmx12mm made from 0.6 mm thick galvanized, color quoted cold rolled steel profiles with necessary screws fixed at every 304.8 mm intervals. The cost inclusive of MS Nickel coated Aldrops of size 255 mm long 2 Nos., 200 mm long tower bolts 1 No., 125 mm handles 2 Nos. 300 mm long "T" hinge cost and conveyance of all materials at site and applying 1 coat primer, 1 coat of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	2062
831	BMT-N.28	Supply and fixing of Cement Bonded Particle Board (IS 14276) door shutters using with 16MM Cement Bonded Particle Board with all round style "U" size of 20mmx18mm x20mm made from 0.6mm thick galvanized pre-painted cold rolled steel profiles with Cement Bonded Particle Board separating two shutter with 30mmx18mmx30mm Stepped lipping with necessary screws fixed at every 1'-0" (304.8mm) intervals. Ms Nickel coated 250 mm long aldrops 2 no's, MS powder coated 250mm long tower bolt 2no's , & 2no's MS powder coated 125 mm long grip handle. Including cost and conveyance of all materials at site and applying one coat of primer, 2 coats of lappum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	2786
832	BMT-N.29	Supply and fixing of BISON LAM single door shutter using 16MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with all round section "U" size of mm thick galvanized pre-painted cold rolled steel profiles BISON LAM 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 powdercoated 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	Deleted
833	BMT-N.30	Supply and fixing of Cement Bonded Particle Board (IS 14276) LAM double door shutter using 16MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS 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 Particle Board (IS 14276) LAM 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	1 Sqm	2450

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		of all materials at site labour charges etc., complete finished item of work.		
834	BMT-N.31	Doors Frames (Colour Coated Steel Sections) & Shutter using Cement Bonded Particle Board as per IS 14276 Providing and fixing of door frame made from cold roll formed sections made of galvanized (Base steel as per IS277 with zinc of 120 Gms/sqm) colour coated steel sections with total coated thickness of 1mm, primer coated with epoxy primer coat of 5-7 microns thick, finish paint with polyester paint of 12-16 microns. The Section for door frame is to be filled with polyurethane (P.U) form of 40kg/m ³ . Overall size of frame section should be of 50mm x 50mm. With necessary corner brackets, stiffeners, hinges, and screws. Cement Bonded particle board shutter (Bison Panel 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 (Bison Panel or equivalent) with necessary screws fixed at every 1'-0" (304.8mm) intervals. The cost inclusive of MS nickel coated Aldrop of size 250mm long 2nos. 200mm long tower bolt 1no., 125mm handles 2nos., cost and conveyance of all materials at site and applying one coat primer , one coat of luppum and two coats of synthetic enamel paint as per approved design for finished item of work	1 Sqm	3845
835	BMT-N.32	Supply and fixing of Cement Bonded Particle Board (IS 14276) box type cup board using Cement Bonded Particle Board for making frame of size 100mm x 35mm using two sandwiched 16MM boards, one Cement Bonded Particle Board and one CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with plain 35mm wood lipping. The Shutters are made of 16MM thick CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS (Pre-Laminated Cement Bonded Particle Board) of approved shade inclusive of hardware like M.S. powder coated Piano hinges of size 3/4" x 3/4" , Aluminum powder coated handles of size 4" (101.6mm), Aluminum tower bolt 4" (101.6mm) Godrej locks, screws, wood lipping and Fevicol etc., complete finish item of work.	1 Sqm	3862
836	BMT-N.33	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS door shutter made out of U sections of size 12x14x12 made from 0.6mm thick pps sections with 12MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS with necessary screws fixed at every 1'.0"interwells. The hardware consists of 250mm long aldrop – 2 Nos.150mm Handle- 1 No , 150 mm long ms powder coated tower bolt 1 no. nickle coated. The cost is inclusive of all incidentals, labor	1 Sqm	2397

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		transportation charges.		
837	BMT-N.34	Supply and fixing of V- Board door shutter with alround 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 V-board with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	Deleted
838	BMT-N.35	Providing and fixing 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 rivet for shutter with necessary stiffeners hinges and screws. V- Board shutter with alround style "U" lipping of size 15 x 18 x 15 mm made from 0.8 mm thick CRCA powder coated steel profile with 16 mm thick V-board with necessary screws fixed at every 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance. One coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.,.	1 Sqm	Deleted
839	BMT-N.36	Supply and fixing Sintex or equivalent doors are made out of PVC section and panels. The overall dimension of the same is 33mm X 47mm with usual process variation and having a wall thickness of 1.5mm with a variation of ± 0.3 mm. The infill is seamless hallow multi chambered PVC single panel having an effective dimension of 762mm X 20mm having a wall thickness of 1mm ± 0.3 mm complete, for finished item of work.	Sqm.	Deleted
840	BMT-N.37	Supply and fixing PVC door frames made from extruded sections in overall dimensions of 40 X 48mm having a wall thickness of 1.5mm with usual process variation of ± 0.3 mm, complete, for finished item of work.	1 RM.	Deleted
841	BMT-N.38	Supply and fixing of V-board wall panelling (water, fire and termite resistant) with frame work made of GI stud profile of size 48 x 40 x 10 x 0.6 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 with 8 mm thick V- Board / 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". The Gap will be covered with a decorative beading. Surface will be given a smooth finish over a coat of primer. Inclusive of all taxes: With 8 mm V- Board	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
842	BMT-N.39	Supply and fixing double skin V- 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 V- 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	Deleted
843	BMT-N.40	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 \pm 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.	Deleted
844	BMT-N.41	Supply and fixing of Sintex Frontura door shutter consisting of Sintex make or equivalent FRP (Fibre Reinforced Plastic) panels on either sides with depressed panelled design for door having overall wall thickness of 1.5mm + 0.35 mm with usual process variation. The core of the door shutter shall be filled with Polyurethane foam (PUF) injected with the help of Hydraulic Injection method, wooden black of 35mm x 31mm shall be provided on all four side of the door shutter. Necessary wooden blacks shall be provided to take up necessary hard wares and fixtures etc. with steel wire mesh at the centre of the door the rate inclusive of all taxes and finished item work. Max size: 838mm (W) x 2060mm(H) Colour GOLDEN BROWN. SINTEX FRONTURA DOOR SHUTTER (25MM THICK)	1 Sqm.	Deleted
845	BMT-N.42	Supply and fixing of sintex door shutter made from specially hotpress moulded SMC (Sheet moulding compound) sheet polytherencore and PVC Frame section. SMC sheets shall be made from SMC confirming to IS-13410 sheets shall have an average thickness of 1.4mm+/- 0.35mm on both sides. Core of the door shall be filled with high density polyurethane foam injected with the help of hydraulic injection method shutter frame to be made of PVC Extruded section of 26mm x 47mm with a wall thickness of 1.4mm+/-0.3mm on both sides corresponding to sintex code DWUF 305 the hardware location shall be reinforced with special polymeric reinforcement wooden blocks of suitable size. The corners of the shutter frame shall be reinforced with polymeric L shaped	1 Sqm.	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		angle size of 105 x 230mm corresponding sintex code PR-02 the lock rail shall be made from PVC Extruded sections having overall dimensions of 26mm x 47mm x 1.4mm +/- 0.3mm on both sides. The usual process of variation corresponding sintex code of 305 combining two nos. wooden pieces are inserted on the periphery suitable M.S.Tube reinforcement shall be provided on the one vertical side of shutter frame		
846	BMT-N.43	Supply and fixing of Sintex Door shutter made from specially Hot Press Moulded SMC (Sheet moulding compound) sheets, Polyurethane core and PVC Frame section SMC sheets shall be made from SMC conforming to IS-13410 sheets shall have an average thickness of 1.4 mm +/- 0.35 mm on both sides. Core of the door shutter shall be filled with high density polyurethane foam, injected with the help of hydraulic injection method shutter frame to be made of PVC extruded section conforming to IS: 10151: 1982 of size 26 mm x 46 mm with a wall thickness of 1.4 mm +/- 0.3 mm on both sides corresponding to Sintex code DWUF 305. The hardware locations shall be reinforced with special polymeric reinforcement wooden blocks of suitable size. The corners of the shutter frame shall be reinforced with Polymeric 'L' shaped angle of size 105mm x 230mm corresponding to Sintex code PR-02 the lock rail shall be made from PVC extruded sections having overall dimensions of 26 mm x 46 mm 1.5 mm +/- 0.3 mm on both sides, with usual process variation corresponding to Sintex code 305 combining two numbers. Wooden pieces are inserted on the periphery. Suitable MS Tube reinforcement shall be provided on vertical sides of shutter frame the rate inclusive of all taxes and finished item work Colour: White & Grey	1 Sqm.	Deleted
847	BMT-N.44	SINTEX ENDURA DOOR SHUTTER (26MM THICK)	1 Sqm.	Deleted
848	BMT-N.45	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.	Sqm.	1923
849	BMT-N.46	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 57mm with the wall	1 RM	254

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metri-cut/ welded. PVC DOOR FRAME		
850	BMT-N.47	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 46 mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be mitre cut/welded	1 RM	200
851	BMT-N.48	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with std. Spn (S.S.) fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Single shutter 2'-0" x 4'-0" (609.6x1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
852	BMT-N.49	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with std. Spn (S.S.) fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Double shutter 3'-0" x 4'-0" (914.4 x 1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
853	BMT-N.50	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with std. Spn (S.S.) fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Double shutter 4'-0" x 4'-0" (1219.2 x 1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
854	BMT-N.51	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Single shutter 2'-0" x 4'-0" (609.6x1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
855	BMT-N.52	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Double shutter 3'-0" x 4'-0" (914.4 x 1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
856	BMT-N.53	Supply & fixing of Fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work.: Double shutter 4'-0" x 4'-0" (1219.2 x 1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
857	BMT-N.54	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be	1RM	219

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
858	BMT-N.55	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Double shutter 5'-0" x 7'-0" (1524 x 2133.6mm) outer frame section size of 50 x 60 mm	1 RM	219
859	BMT-N.56	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 60 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	248
860	BMT-N.57	Supplying & fixing of Door frame made of roll formed section of 1.25 mm thick CRCA section, size should be 50 x 60 mm with 32 mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. Complete for finished item of work.: Single shutter 5'-0" x 7'-0" (1524x2133.6mm) outer frame section size of 50 x 75 mm	1 RM	248
861	BMT-N.58	Providing and fixing door frames fabricated from sections made of galvanized steel powder coated (base steel as per IS 513, galvanised as per IS 277 with zinc of 120 grams / square metre), the factory made section are powder coated with pure polyester powder of 50-60 microns thick with total coated thickness of 1.25 mm, size of door frame section is of 105 x 60 mm with a rebate of 38 mm to accommodate 35 mm thick door shutter, with groove to insert gasket in the frame section, frame section filled with polyurethane foam, cut to length, and joined by way of welding, each frame provided with: a) 2mm thick MS powder coated butt hinges of 100 mm long – 3 Nos. for single shutter, 6 Nos. for double shutter. b) CRCA electroplates stiffeners of 6 Nos. – 3 in each vertical. c) 40 mm x 200 mm x 1.2 mm hold fasts screwed to stiffeners – 6 Nos. with split end tail. d) Nylon Aldrop Receiver – 1 No. for single shutter frame. e) Tie Rod – 1 No	1 RM	759

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
862	BMT-N.59	Providing and fixing of door frames factory made, internal door frames without threshold, fabricated from pre painted cold roll formed section 100 mm x 60 mm made of galvanized (base steel as per IS-513 'D' quality galvanized as per IS-277 with Zinc of 120 Gms/sqm) steel colour coated sections with total coated thickness of 1 mm primer coated with epoxy primer of 5-7 microns thick finish painted with polyester paint of 12-16 microns and back coated with alkyd backer of 5-7 microns, the frame section filled with polyurethane (PU Foam) of 40 kg/Cu.m 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 dia MS tie rod at bottom with necessary size of nuts on either side.	1 RM	474
863	BMT-N.60	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors three track - only two glass shutters sliding - 95 -Series duly manufactured using UPVC reinforced profiles of 95.50 mm x 60 mm x 2.25 mm for outer frames, 66 mm x 42 mm x 2.25 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant accessories like clipping locking system made of aluminium 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ 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	6394

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
864	BMT-N.61	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding doors three track - two glass shutters sliding and one mesh shutter sliding- 95 -Series duly manufactured using UPVC reinforced profiles of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.0 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.0 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make and mesh shutter shall be made of (48.5 mm x 30 mm)/(50 mm x 26.5 mm) x 2.0 mm uPVC profile section and fitted with nylon/polymer mesh and rollers/pulley duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories like clipping locking system made of aluminium 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ 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	7066
865	BMT-N.62	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	6731
866	BMT-N.63	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) openable doors with openable shutters duly manufactured using UPVC reinforced profiles of 60 mm x 55 mm x 2.0 mm for outer frames, 70 mm x 60 mm x 2.25 mm for mullion sections as per the need and 102 mm x 60 mm x 2.0 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip	1 Sqm	8009

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant and accessories for openable door - hinges of stainless steel grade 304- 3 Nos., per shutter handle with mazak alloy casting 1 No. per shutter, locking system suitably concealed 1 No., with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work		
867	BMT-N.64	Supplying and fixing door shutter, with shutter frame and infill panel made from PVC material conforming to IS: 10151-1982, the shutter frame made out of PVC extruded sections having overall dimension of 47 mm x 33 mm with wall thickness of 1.2mm + 0.3mm with usual process variation, the shutter frame with tapered shape to provide better grip to the infill panel end to drain out the water The Infill panel is made out of PVC Sections having Overall Dimensions of 200 mm x 20 mm with wall thickness of 1mm + 0.2mm, the shutter frames mitre cut and joined at the corner, by providing Polymeric " L " type corners to take hardware & fixtures fixed with 10-20mm counter sunk fully threaded parallel shank steel screws, all the hardware locations reinforced with special polymeric bars as per drawings, stickers showing locations of different hardware pasted on the shutter, the infill panels joined by tongue and groove method.	1 Sqm	1038
868	BMT-N.65	PVC Door shutter conforming to IS: 10151-1982, the infill panel made of seamless one piece multi chamber PVC extruded sections having overall dimensions of 610 mm x 20 mm with wall thickness of 1mm + 0.2mm with the top and bottom edges of the shutter covered with end cap of the size 20 mm x 11 mm with the door shutter to be reinforced with special polymeric reinforcements as per drawing for hardware's and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	1 Sqm	Deleted
869	BMT-N.66	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	1 Sqm	10283

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required rigidity and effective acoustic insulation with 6" Tower bolt – 1 No., 6" D handles – 2 Nos., 10" Aldrop – 1 No., Butt Hinges – 3 Nos, Mortise Lock of approved quality – 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Single leaf Door		
870	BMT-N.67	Providing & Fixing of Scientific Doors with metal door frames and door shutters made of galvanize steel (base steel as per IS 513 of 0.58 mm thick D quality, galvanized as per IS 277 with Zinc of 120 GSM). coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/Epoxy polyester powder for powder coating paint thickness 50-60 microns (Dry film thickness) outer frame section of 100 x 58 mm x 1.2 mm thick, shutter section of 0.80 mm thick galvanized steel sheet pressed (roll formed) for 46mm thick fully flush, double skin door shell seam joints at stile edges, in-fill of honeycomb kraft paper used to give the required rigidity and effective acoustic insulation with 6" Tower bolt – 2 Nos., 6" D handles – 2 Nos., 10" Aldrop – 1 No., Butt Hinges – 6 Nos, Mortise Lock of approved quality – 1 No, frames fixed to the concrete/masonry wall by means of self expanding screws complete for finished item of work for Double leaf Door	1 Sqm	10968
871	BMT-N.68	Moulded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick doors - 30 mm thick	1 Sqm	1934
872	BMT-N.69	Moulded panel solid core flush doors using water-resistant hardwood fibre HDF / MDF fibre boards skins of 2.5 mm thick doors - 35 mm thick	1 Sqm	2114
873	BMT-N.70	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 30 mm thick	1 Sqm	1571
874	BMT-N.71	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 35 mm thick	1 Sqm	1739

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
875	BMT-N.72	Providing & fixing 30 mm thick solid panel PVC door shutter consisting of frame made out of 19 guage 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	3030
876	BMT-N.73	Supply & Fixing SOLID STEEL DOOR door shutter made out of G I Precoated Sheet with an average wall thickness of 0.35 mm on both sides. MS Tube having dimensions of 19 x 19 mm is inserted along the hinge side of the door, core of the door shutter filled with High Density Polyurethane foam injected with the help of hydraulic injection method, four sides of the door covered with G I Precoated Sheet and the hardware locations reinforced with suitable wooden blocks as per drawing and stickers indicating location of the hardware pasted at appropriate places, etc complete	1 Sqm	1480
877	BMT-N.74	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 60 mm x 30 mm with wall thickness of 1.3 mm \pm 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm \pm 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric bars as per drawing including providing special PVC bracket on hinge side, etc complete	1 Sqm	2604
878	BMT-N.75	deleted		Deleted
879	BMT-N.76	Providing & fixing internal prelamated PVC door frame of size 100 x 45 mm with a wall thickness of 5mm, made of extruded 5 mm Prelam PVC foam sheet, mitred cut at two corners and joined with two nos. of 150mm long brackets of 15 x 15 mm MS square tube, two vertical door profiles reinforced with 40 x 20 MS Tube of 19 guage throughout the frame and the door frame fixed to the wall using 65/100mm long MS screws through the frame by using PVC fasteners	1 RM	601

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
880	BMT-N.77	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 ize 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, cleanroom applications	1 Sqm	11139
881	BMT-N.78	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 ize 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, cleanroom applications	1 Sqm	20886

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
882	BMT-N.79	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 ize 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Skin pass Galvanized Iron Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	13228
883	BMT-N.80	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 ize 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	1 Sqm	12532

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		door conforming to IS:3614 (Part2) 1992		
884	BMT-N.81	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 ize 143 mm X 58 mm with maximum bending radius of 1.4 mm and filled with in-fill Polyurethane foam, the Door Shutters are with 0.80 mm thick Stainless steel of 304 grade hairline finish Sheet formed to provide a 46 mm thick fully flush, double skin door shell with Lock Seam joints at stile edges, fitted with in-fill of Honeycomb Kraft Paper and coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns and are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, the Shutter provided with 6 MM clear float vision glass in Circular, Square or Rectangular shapes, Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter (Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for 120 minutes Fire Rated door conforming to IS:3614 (Part2) 1992	1 Sqm	20886
885	BMT-N.82	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 ize 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	18209

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
886	BMT-N.83	Supply & Fixing of Lead Lined Clean room doors frames and shutters made of Skin pass galvanized Iron sheet (Conform to Base Steel as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr).with powder coating of thickness 60-65 Microns, frame of 1.60mm thick galvanized steel sheet (Conform to IS 277) formed to Single/double rebate profile of size 100mm X 58mm/ 143x58mm, door frames with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the shutter with 1.2 mm thick Galvanized Steel Sheet (Conform to IS 277) formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges with a single / multi Layer of Lead sheet varying thickness from 3mm /1mm to 2mm depends on radiation level, the lead sheets extend the full width and height of the door, Lead thickness is equal to the shielding in the adjacent wall, the door frames and door shutters are coated with polyester powders of Pure polyester/ epoxy polyester or polyurethane powder for powder coating of thickness 60 – 65 microns, coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability, hardware with Stainless Steel Ball Bearing Butt Hinges 3 mm thick fixed flush to the frame and shutter etc complete for finished item	1 Sqm	14995
887	BMT-N.84	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	23671
888	BMT-N.85	Supply and fixing of V- 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 V-BOARD with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel	1 Sqm	1500

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.		
889	BMT-N.86	Supply and fixing of BOARD (conforming to IS 14862) 12 mm thick door shutter of size 6'0" x 2'6" with all-round style "U" lipping size 15 x 14 x 15 mm made from 0.8 mm thick powder coated cold rolled steel profiles with necessary screws fixed at 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance of all materials at site and applying 1 coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved design for finished item of work.	1 Sqm	1285
890	BMT-N.87	Providing and fixing 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 rivet for shutter with necessary stiffeners hinges and screws. BOARD (IS 14862) shutter with all-round style "U" lipping of size 15 x 18 x 15 mm made from 0.8 mm thick CRCA powder coated steel profile with 16 mm thick V-board with necessary screws fixed at every 1'-0" interval 250 mm long aldrops 2 nos. M.S. nickel coated 250 mm long 1 no. M.S. Tower Bolts Including cost and conveyance. One coat of primer, 2 coats of luppum and 2 coats of synthetic enamel paint as per approved colour, labour charges etc.	1 Sqm	1767
891	BMT-N.88	Providing, supplying & fixing of glazed 2 Track -2 Panel Sliding Door made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The sliding outer frame having a overall size of 60 x 45 mm with reinforcement of 1 mm thickness, super sash with overall size of 39 x 75 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 20 x 18mm and coextruded with gasket. Fiber Glass mesh shall be provided in mesh shutter. Window/Door shall be provided with 6 mm plain float glass, standard hardware & multi point locking system of Patio espagnolette. Wall thickness of frame & sash shall be 2.0 mm	1 Sqm	5684
892	BMT-N.89	A) Specification for Foamed PVC Door Frame: Providing of Factory made prelaminated 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	Each	14864

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		<p>no's to be provided for each vertical member, GI stiffeners of ("U" chanel of size 29x9x1mm, 150mm long) -3 no's at hinge point, Frame reinforcement of ("U" GI chanel of size 46x22x.06mm), Bottom tie rod of ("U" GI chanel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work.</p> <p>Maximum door frame size : 980 x 2070</p> <p>B) Specification for ABS Shutter:</p> <p>Providing of 35mm thick Facotry made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with 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.</p> <p>Maximum shutter size of : 910 x 2030 mm</p>		
893	BMT-N.90	<p>Specification for ABS Shutter:</p> <p>Providing of 35mm thick Facotry made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminate 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.</p> <p>Maximum shutter size of : 910 x 2030 mm</p>	Each	10867
894	BMT-N.91	Supply and fixing of Bath room / Toilet door shutter with 16mm BISON Lam (IS 14276) door shutter with all-round 'U'	1 Sqm	2626

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		lipping of PPS section of size 12mm X 18mmX 12mmX0.6mm thickness with a hardware of 12mm dia X200mm long aluminum aldop – 2 nos(ISI make)2 No of 125mm long handles(ISI make) and also 3 no Of IS304 grade Patee Hinges 3mmX12mmX180mm long with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The price inclusive of all material at site		
895	BMT-N.92	Supply and fixing of toilet door shutter with frame made of M.S. door frame of 5mmX48mmX48mm (L angel) as all-round frame the frame is coated with one coat of red oxide and two coats of enamel of approved color. For shutter and the shutter is made with 16mm Bison Lam shutter with all-round 'U' Lipping of PPS section of 12mmX18mmX12mmX0.60mm, along hardware of 200m long and 12mm dia aluminum aldop(ISI make)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 3mmX40mm SS 304, plate it works as receiver for RT Patee hinges it is welded to M.S. angle . M.S. angle will be fixed to wall of self expandable screws and caps.	1 Sqm	3760
896	BMT-N.93	Supply and fixing of cupboard shutter using teakwood scantling of size 50mm X50mm teakwood as outer frame and 50mm 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 75mm10mmX1mm 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	4331

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
897	BMT-N.94	PVC Door frame made out of PVC material conforming to IS:10151:1982. The door frame shall be made from extruded PVC Section in overall dimensions of 40mm x 48mm having wall thickness of 1.1mm +/-0.3mm with usual process variation corresponding to Sintex code number RUPS 414. The frame shall be Reinforced with special polymeric reinforcement as shown in drawing to take up necessary hardware. The corner joint shall be mitre cut and welded or joined by means of concealed cleats with necessary screws fittings. A tie rod to be provided at bottom. [Laminated Profile]	Per Rmt.	Rs. 210.00
898	BMT-N.95	Door shutter with shutter frame and Infill panel made from PVC material conforming to IS: 10151:1982. The shutter frame is made out of PVC extruded sections having overall dimensions of 100mm X 30mm, with two self extruded grooves at 40mm & 50mm on front surface. The Infill panel is made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm X 20 mm. The shutter frame shall be meter cut and joined at corners by means of plastic brackets. Stickers showing locations of different hardware will be pasted on the shutter. ALL Dimensions are in MM.	Per Rmtr.	Rs. 2,550.00
899	BMT-N.96	The shutter frame made out of PVC extrude section having overall dimensions of 59mm x 24mm with wall thickness of 1.0mm +/-0.3mm with usual process variation corresponding to the Sintex Code No.DWUF-302. The shutter frame is given tapered shape to provide better grip to the infill panel and to drain out the water.The infill panel is made out of seamless one piece multi chambered PVC extruded section having overall dimension of 610mm x 20mm with wall thickness of 1mm +/-0.2mm with usual process variation corresponding to the Sintex code No.SPUF-128. The shutter frame shall be mitre cut and joined at the corner polymeric 'L' Type corners shall be provided at the corners to take up hardwares & fixtures and shall be fixed with 19 x 8mm counter sunk-fully threaded parallel shank steel screws. All the hardware locations shall be reinforced with special polymeric Bars.	1 Sqm	Rs. 2,225.00
887	BMT-N.97	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 2 Track-2 Panel Sliding Doors duly manufactured	1 Sqm	6,252.00

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		using UPVC reinforced profiles(Composition of profile shall consists a minimum of 5.5 PHR of TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin) of 60 mm x 45 mm x 2.20 mm with reinforcement of 1.2 mm thickness, super sash with overall size of 39 mm x 75 mm x 2.20 mm with for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.5 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Door shall be provided with standard hardware & multi point locking system of bent handle espagulate .the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
888	BMT-N.98	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 TiO ₂ and not more than 12 PHR of CaCo ₃ 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	1 sqm	7,033.00

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		work.		
889	BMT-N.99	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 TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin) of (108 mm x 45 mm)/(95.50 mm x 60 mm) x 2.20 mm for outer frames, (75 mm x 39 mm)/(66 mm x 42 mm) x 2.20 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the door sash shall be fitted with 6 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. Mesh shutter shall be made of (48 mm x 30 mm)/(50 mm x 26.5 mm) x 2.0 mm uPVC profile section and fitted with Vinyl Coated Fiber mesh and rollers/pulley duly fixed with TPV Gaskets weathering seal resistant Door shall be provided with standard hardware & multi point locking system of Patio/Roto espagulate and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 sqm	7,773.00
900	BMT-N.100	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 TiO ₂ and not more than 12 PHR of CaCo ₃ 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	1 Sqm	8,810.00

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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.		
901	BMT-N.101	Supply and fixing of CEMENT BONDED PARTICLE BOARD double door shutter using 16MM CEMENT BONDED PARTICLE BOARD LAM with all round "U" section size of 20mm x 18mm x 20mm made from 0.6mm thick galvanized pre-painted cold ro steel profiles with CEMENT BONDED PARTICLE BOARD LAM separating two shutter with 30mm x lled 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 labor charges etc., complete finished item of work.	1 Sqm	3112
	P.	WINDOWS (Landing cost - including material VAT, loading, cost of conveyance, unloading & stacking)		
902		Supplying and fixing of WINDOWS with Prelaminated Cement Bonded Particle boards and Pre-Painted Steel Sections fabricated from pre-painted Cold rolled formed sections made of galvanized steel color coated sections (Base steel as per IS-512 D 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), sections for outer frame and centre mullion (duly filled with PU form of 40 kg/Cum) of 60mm x 50mm, with provision for fixing glazed shutter and the section for glazed/paneled of size 48 mm x 25 mm and another section of size 60 mm x 23 mm provided for separating glazed and paneled portion, the section cut to length and miter jointed with plastic corner brackets and with corner brackets for window outer frames of 50mm x 60mm, the mullion section fixed to the frame with plastic mullion cap		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		and stiffener plates of size 60 mm x 50 mm made of 1.25mm thick CRCA electroplated provided to fix window frames to concrete/masonry, gasket for fixing glass and 10mm both sides pre-laminated cement bonded particle board and 5 mm thick colour pin headed glass provided for glazing and providing guard bars of 10 mm square rods duly welded at 150 mm pitch to MS flat section of size 18 mm and 3 mm thick, and fixed to wall by means of self expansion nylon Cap (75) and electroplated wooden screws of size 100 mm, together with 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 SS Pivot hinges 2 nos per shutter, D) MS Powder coated telescopic stay 1 no per shutter.		
903	BMT-P.01	Pre Laminated Cement Bonded Particle Board WINDOWS – Single shutter 2'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm	1 Sqm	Deleted
904	BMT-P.02	Pre Laminated Cement Bonded Particle Board WINDOWS – Double shutter 3'0" x 4'0" 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	Deleted
905	BMT-P.03	Pre Laminated Cement Bonded Particle Board WINDOWS – 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	Deleted
906	BMT-P.04	Pre Laminated Cement Bonded Particle Board WINDOWS – 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	Deleted
907	BMT-P.05	Pre Laminated Cement Bonded Particle Board WINDOWS – Center fixed both side openable shutters 6'0"x4'0" outer frame section size 50 mm x 60 mm shutter frame section size of 48mm x 25mm, Mullion section size of 50mm x 60mm fixed beading section size of 12mm x 12mm.	1 Sqm	Deleted
908	BMT-P.06	Supply and fixing of openable window made out of extruded PVC section and the outer frame having overall dimensions of 40 x 48 mm with a wall thickness of 1.5 mm and the shutter frame with overall dimensions of 26 x 47 mm and wall thickness of 1.2mm ± 0.3mm provided with 5mm glazing, the centre mullion having over all dimensions of 25 x 32.5mm ±0.3mm, complete, for finished item of work.	1 Sqm.	Deleted
909	BMT-P.07	Supply and fixing of two track or three track sliding window with the outer frame of 58 x 45mm with a wall thickness of	1 Sqm.	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		1.2mm \pm 0.3mm and the sliding shutter frame made of PVC section 57 x 32mm with overall dimensions of 1.5mm \pm 0.3mm provided with 5mm glazing including roller bearings and arrestor type handle cum lock complete, for finished item of work.		
910		Supply and fixing of pre-painted steel windows & top hung and fixed louvered ventilators made of 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 and back coated with 5-7 microns thick alkyd backer, section for outer frame of 46 x 52 mm section and for shutter of 46 x 46 mm section for mullion 46 x 70 mm, and section for beading should be 18 x 25 mm and section for louvered ventilation of 33 x 56 mm Box section and the windows panelled with 5 mm thick plain float glass & 4 mm pinhead glass for ventilators with Ethyl propylene Diamine monomer Gasket (EPDM) and the sections cut to length mitre joined with corner bracket centre mullions fixed using mullion cap and 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.		
911	BMT-P.08	Windows: Single shutter 2'0 x 4'0 (609.6 x 1219.2 mm) Outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 sqm	6316
912	BMT-P.09	Windows: Double shutter 3'-0" x 4'-0" (914.4mm x 1219.2 mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 Sqm	6316
913	BMT-P.10	Windows: Double shutter 3'-0" x 4'-0" (914.4mm x 1219.2 mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6681
914	BMT-P.11	Windows: Double shutter 4'-0" x 4 '-0" (1219.2x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm	1 Sqm	6498
915	BMT-P.12	Windows: Double shutter 4'-0" x 4 '-0" (1219.2x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6498
916	BMT-P.13	Windows: Double shutter 4'-6" x 4 '-6" (1371.6x1371.6mm) outer frame section size of 46 x 52 mm shutter frame section	1 Sqm	5952

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		size of 46 x 46 mm Mullion section size of 46 x 70 mm		
917	BMT-P.14	Windows: Centre fixed both side openable shutter 5'-0" x 4'-0" (1524x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm	1 Sqm	5952
918	BMT-P.15	Windows: Centre fixed both side openable shutter 6'-0" x 4'-0" (1828.8x1219.2mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm	1 Sqm	5952
919	BMT-P.16	Windows: Centre fixed both side openable shutter 6'-0" x 4'-6" (1828.8x1371.6mm) outer frame section size of 46 x 52 mm shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm fixed beading section size of 18 x 25 mm	1 Sqm	5952
920	BMT-P.17	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	1 Sqm	6924
921	BMT-P.18	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	1 Sqm	6924
922	BMT-P.19	Ventilators: Top Hung 4'-0" x 3'-0" (1219.2x914.4mm) outer frame section size of 46 x 52m m shutter frame section size of 46 x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6924
923	BMT-P.20	Ventilators: Fixed louvers 2'-0" x 2'-0" (609.6x609.6mm)(Box section) outer frame section size of 33 x 56 mm	1 Sqm	4737
924	BMT-P.21	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	1 Sqm	4737
925	BMT-P.22	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	4737
926		Providing and fixing of Openable Windows made of pre-painted steel (Base steel as per IS 513 of 0.58 mm thick 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 and back coated with 5-7 microns thick alkyd backer 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 and the sections cut to length metre joined with corner bracket, centre mullion fixed with mullion cap,		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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 for finished item of work.		
927	BMT-P.23	Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm). Outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm.	1 Sqm	5770
928	BMT-P.24	Double shutter Window with vertical mullion 3'0" x 4'0" (914.4mm x 1219.2mm) outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm.	1 Sqm	6134
929	BMT-P.25	Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm and mullion section should be of 48x50mm.	1 Sqm	6134
930	BMT-P.26	Centre fixed both side openable shutter window 5'0"x4'0" (1524mm x 1219.2mm). Outer frame section size of 48x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm. Fixed beading section size of 12x12mm.	1 Sqm	5405
931	BMT-P.27	Centre fixed both side openable shutter window 6'0"x4'0" (1828.8mm x 1219.2mm). Outer frame section size of 48x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 48x50mm. Fixed beading section size of 12 x 12mm.	1 Sqm	5405
932		Providing & Fixing of Openable Windows with Fly-mesh made of pre-painted steel (Base Steel as per IS 513 of 0.58 mm thick galvanized as per IS 277 with zinc of 150 GSM) primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer 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 and the sections cut to length metre joined with corner bracket, centre mullions fixed with mullion cap, 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		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		concrete/masonry wall by means of self expanding screws, including 10mm Square guard bars with 6" (152.4mm) pitch , complete for finished item of work		
933	BMT-P.28	Single shutter Window 2'0"x4'0" (609.6mm x 1219.2mm). Outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm.	1 Sqm	7652
934	BMT-P.29	Double shutter Window with vertical mullion 3'0" x 4'0" (914.4mm x 1219.2mm) outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm.	1 Sqm	8017
935	BMT-P.30	Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame section size of 72x50mm shutter frame section size of 48 x 25 mm and mullion section should be of 72x50mm.	1 Sqm	8017
936	BMT-P.31	Centre fixed both side openable shutter window 5'0"x4'0" (1524mm x1219.2mm). Outer frame section size of 72x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm. Fixed beading section size of 12 x 12 mm.	1 Sqm	7288
937	BMT-P.32	Centre fixed both side openable shutter window 6'0"x4'0" (1828.8mm x1219.2mm). Outer frame section size of 72x50mm. Shutter frame section size of 48 x 25 mm. Mullion section size of 72x50mm. Fixed beading section size of 12 x 12 mm.	1 Sqm	6377
938	BMT-P.33	Providing and Fixing Pre-painted steel Sliding Window fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58 mm, 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 and the section for external frame bottom of 79 x 44 mm, external frame sides and top of 69 x 24 mm, guide for top and bottom of 69 x 26 mm (Stainless Steel) and section for shutter of 26 x 30 mm and panelled with 5mm thick plain float glass fitted with corner bracket for internal and external frame made of glass filled nylon, gaskets made of Ethyl Propylene Diamine Monomer (EPDM), sections cut to length, joined and assembled by means of corner bracket, including fixing windows in the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all taxes etc., complete for finished item of	1 sqm	6783

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		work		
939	BMT-P.34	deleted		
940	BMT-P.35	deleted		
941	BMT-P.36	deleted		
942	BMT-P.37	deleted		
943	BMT-P.38	deleted		
944	BMT-P.39	deleted		
945	BMT-P.40	deleted		
946	BMT-P.41	deleted		
947	BMT-P.42	deleted		
948	BMT-P.43	deleted		
949	BMT-P.44	deleted		
950	BMT-P.45	deleted		
951	BMT-P.46	deleted		
952	BMT-P.47	deleted		
953	BMT-P.48	deleted		
954	BMT-P.49	deleted		
955	BMT-P.50	deleted		
956	BMT-P.51	deleted		
957	BMT-P.52	deleted		
958	BMT-P.53	deleted		
959	BMT-P.54	deleted		
960	BMT-P.55	deleted		
961	BMT-P.56	deleted		
962	BMT-P.57	deleted		
963	BMT-P.58	deleted		
964	BMT-P.59	Supply & fixing of fly mesh shutters of size 20x40mm fly proof mesh with std. Spn (S.S) fly mesh including cost and conveyance of all materials, and labour charges etc. Complete for finished item of work including of all taxes. : Single shutter 2'-0" x 4'-0" (609.6 x 1219.2mm) Shutter section size 20 x 40mm	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
965	BMT-P.60	Supply & fixing of fly mesh shutters of size 20x40mm fly proof mesh with std. Spn (S.S) fly mesh including cost and conveyance of all materials, and labour charges etc. Complete for finished item of work including of all taxes. Double shutter 3'-0" x 4'-0" (914.4 x 1219.2mm) shutter section size 20 x 40mm	1 Sqm	Deleted
966	BMT-P.61	Supply & fixing of fly mesh shutters of size 20x40mm fly proof mesh with std. Spn (S.S) fly mesh including cost and conveyance of all materials, and labour charges etc. Complete for finished item of work including of all taxes. Double shutter 4'-0" x 4'-0" (1219.2 x 1219.2mm) shutter section size 20 x 40mm	1 Sqm	Deleted
967	BMT-P.62	Supply & fixing of fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work including of all taxes. Single shutter 2'-0" x 4'-0" (609.6 x 1219.2mm) shutter section size 20 x 40mm	1 Sqm	Deleted
968	BMT-P.63	Supply & fixing of fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work including of all taxes. Double shutter 3'-0" x 4'-0" (914.4 x 1219.2mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
969	BMT-P.64	Supply & fixing of fly mesh shutters of size 20 x 40 mm fly proof mesh with Netlon fly mesh including cost and conveyance of all materials, and labour charges etc. complete for finished item of work including of all taxes. Double shutter 4'-0" x 4'-0" (1219.2 x 1219.2 mm) shutter section size 20 x 40 mm	1 Sqm	Deleted
970	BMT-P.65	Supply and fixing fly mesh window with sections made of pre painted steel (Base steel as per IS 513 of 'D' quality, Galvanized as per IS 277 with zink of 120 GSM), primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12 to 16 microns thick and back coated with 5-7 microns thick alkyd baker with total coated thick ness of 0.58 mm for shutter frame and 0.8 for outer frame, the section for outer frame of 30 x 30 mm and fly mesh shutter section of 20 x 40mm outer frame sections with rebate for fly mesh shutters and sections cut to lengh metre jointed with corner bracket and fitted with aluminum 'T' section of double shutter & above, SS fly mesh shutter (304 grade) and EPD gasket including fixing the frames in the concrete/ masonry wall by means of left expending screws, latch, 2 nos of heavy duty GI pivot hinges provided per shutter (304	1 Sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		grade) including all taxes complete for finished item of work.		
971	BMT-P.66	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows two track sliding duly manufactured using UPVC reinforced profiles of (62 mm x 60 mm)/(60 mm x 45 mm) x 2.0 mm for outer frames, (66 mm x 38 mm)/(58 mm x 39 mm) x 2.0 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories like locking system 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	6391
972	BMT-P.67	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows three track - only two glass shutters sliding duly manufactured using UPVC reinforced profiles of (80 mm x 52 mm)/ (94 mm x 45 mm) x 2.0 mm for outer frames, (54 mm x 38 mm)/(39 mm x 58 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories like locking system 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	5995
973	BMT-P.68	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows three track - two glass shutters sliding and one mesh shutter duly manufactured using UPVC reinforced profiles of (94 mm x 45 mm)/(80 mm x 52 mm) x 2.0 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) x 2.0 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window	1 Sqm	6674

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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 mm fitted with nylon/ polymer mesh on rollers/ pulley duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories like locking system 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work		
974	BMT-P.69	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles of 48 mm x 60 mm x 2.0 mm for outer frames, 64 mm x 60 mm x 2.0 mm for mullion sections for two or more openable shutters and 78 mm x 60 mm x 2.0 mm for outward openable shutter frame or 70 mm x 60 mm x 2.0 mm for inward openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant accessories for casement window - friction stay hinges of stainless steel grade 304- 2 Nos., per sash, handle with mazak alloy casting 1 No. per sash, locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	6471
975	BMT-P.70	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters duly manufactured using UPVC reinforced profiles of 60 mm x 55 mm x 2.0 mm for outer frames, 70 mm x 60 mm x 2.0 mm for mullion sections for two or more openable shutters 70 mm x 60 mm x 2.0 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant and accessories for casement window - friction stay hinges of stainless steel grade 304- 2	1 Sqm	7051

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		Nos., per sash, handle with mazak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work		
976	BMT-P.71	DELETED	1 Sqm	Deleted
977	BMT-P.72	DELETED	1 Sqm	Deleted
978	BMT-P.73	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and window frames fixing to the concrete/masonry wall arrangement with self expanding screws, complete for finished item of work including of all taxes - 1220 x 1372 or below size	1 Sqm	5685
979	BMT-P.74	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 60x50mm, centre for mullion of 62x50mm, section for shutter of 52 x 22 mm, outer frame and mullions to have one side rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8	1 Sqm	5093

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
980	BMT-P.75	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work including of all taxes - 1220 x 1372 or below size	1 Sqm	7142
981	BMT-P.76	Galvanized powder coated Casement Windows with openable shutters duly manufactured using pressed steel sections in mild steel conforming to IS 513 of having 1.0 mm thick and galvanized as per IS 277 of 120 GSM surface treatment with pure polyester powder coating of 30-40 microns thick and section for outer frame of 88x50mm, centre for mullion of 62x88 mm, section for glass and fly-proof mesh shutter of 52 x 22 mm, outer frame and mullions to have two sides rebate for glazed shutter of size 24 mm and 10x10 mm square guard bars provided at 125 mm c/c the sections assembled with bolt & nut assembly with zinc-electroplated M-5 bolts, GI Handle of size 80 mm x 15 mm -1 No per shutter, 2 Nos of stainless steel heavy duty pivot hinges of size 3" of SS 304 Grade per shutter, window panes with 5 mm thick plain float glass and fixed with glass beading section of 10x12 mm size with 0.8 mm thick powder coated aluminium 'U' channel and fly-proof mesh of SS 304 grade fixed with 18 mm x 12 mm BT wood beading and window frames fixing arrangement to the concrete/masonry wall with self expanding screws, complete for finished item of work including of all taxes - 1530 x 1372 or above size	1 Sqm	6566

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
982	BMT-P.77	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 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 and back coated with 5-7 microns thick alkyd backer, section for outer frame of 47 x 36 mm, centre mullion of 60 x 36 mm, section mesh beading 18 x 6 mm and Fly mesh shutter section of 20 x 40 mm, the sections cut to length meter joined with corner bracket and centre mullions fixed with mullion cap, handles, latch, 2 Nos of heavy duty stainless steel pivot hinges per S.S. Mesh for fly mesh shutter (304 grade) including fixing the frames in the concrete/masonry wall by means of self expanding screws complete for finished item of work.	1 Sqm	4766
983	BMT-P.78	Providing & fixing white colour Rigid PVC window frame and shutter with single rebate using frame section of 50 x 35 mm, centre mullion 50 x 47 mm and the thickness of shutter 25 mm thick, the frame work made of M.S. Tube of 19 gauge of size 15 x 15 mm and solid PVC Section made of 4 mm thick (3.75 mm PVC foam sheet laminated with .25 mm rigid PVC sheet) and heat moulded PVC "C" section of size 50 x 25 x 25 mm forming rails & stiles and reinforced with M.S.Tube of 19 gauge of size 15 x 15 mm and suitably joined with solvent cement and fitted with 4 mm thick glass panel with Aluminium handles, tower bolts, hinges and stopper complete as per direction of Engineer in-charge and manufacturers specification. (All sizes with openable shutters)	1 Sqm	Deleted
984	BMT-P.79	Providing & fixing white colour Rigid PVC window frame and shutter with doouble rebate (glass & mesh) using frame section of 42 x 115 mm made out of M.S.Tube of 19 gauge 15 x 15 mm and solid PVC section made from 4 mm thick (3.75 mm foam sheet laminated with 0.25mm rigid PVC sheet Suitably joined using PVC solvent cement and the window shutter of 25 mm thick heat moulded with PVC 'C' section of size 50 x 25x 50mm forming rails & stiles and reinforced with with M.S.Tube of 19 gauge 15 x 15 mm and glass and wire mesh fitted externally in the clear space available between stiles and rails and fixed with PVC beading of size 23 mm x 16 mm complete as per direction of Engineer in charge and manufacturers specification (All sizes with openable shutters)	1 Sqm	Deleted
985	BMT-P.80	Providing and fixing COMPOSITE SLIDING WINDOW fabricated from roll formed sections made of Galvanized Steel colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams /Sq.Mtr.) with total coated thickness of 0.58 mm, powder coated with pure Polyester Powder up to 50-60 microns thick	1 Sqm	5952

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		and the section for external frame bottom of 68 x 25mm (Aluminium), External frame sides & Top of 68 x 25 mm (Aluminium), section for shutter of 59 x 23mm and Lap Strip of 30 x 7.5mm (uPVC) cut to length and mitre joined with L-bracket and 5 mm plain float Galss with Ethyl Propylene Diamine Monomer (EPDM) gasket, the corner bracket for external frame made of Aluminium 'L'-Angle, Corner Bracket for internal frame made of Polypropylene, Crescent Latch, Rollers, & EPDM Gaskets for shutters, wool pile for lap strip, Bump Stop Base & Rubber for shutter stopper including fixing to brick/concrete masonry using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames and fixing 10mm square guard bars with 6" pitch centre to centre (152.4mm) and all taxes completed for finished item of work		
986		Providing and fixing of Two shutter Sliding Windows made of Galvanized Steel (Base Steel as per IS 513, D quality, galvanized as per IS 277 with Zinc of 120 GSM), using factory made section powder coated with Pure polyester powder upto 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 without grill provision is of 75 mm x 50 mm and the Window Shutter section of 58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and cut to length miter joined with corner brackets 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.		
987	BMT-P.81	a) Window with Two Sliding Shutters and without Grill Outer Frame Size 75 mm x 50 mm.	1 Sqm	5302
988	BMT-P.82	b) Window with Two Sliding Shutters and with Grill Outer Frame Size 90 mm x 50 mm have a rebate of 15mm x 5 mm to fit grill made of 10mm MS Sq Rods for horizontal bars welded at a regular pitch of 150mm to 12mm x 6 mm MS flat.	1 Sqm	5880

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
989		Providing and fixing of Three shutter Sliding Windows made of Galvanized Steel (Base Steel as per IS 513, D quality, galvanized as per IS 277 with Zinc of 120 GSM), using factory made section powder coated with Pure polyester powder upto 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 three tracks with grill provision size of 105 mm x 50 mm and without grill provision is of 90 mm x 50 mm and the Window Shutter section of 58 mm x 36 mm and the outer Frame with two integrated guide tracks of 12mm width and 24mm deep for provision to slide the Shutter / sash frame and facilitates with a water drain outlet component made of PVC and the shutter frame fitted with 5mm thick plain float glass of reputed make and fixed with EPDM weathering seal resistant accessories and handle made of Alumimium 1 No. per each shutter and cut to length miter joined with corner brackets 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.		
990		Window with 3 shutters (center fixed shutter / Center sliding shutter / center Fly mesh shutter) and with Grill Window made of Outer Frame of Size 105 mm x 50 mm. Grill made of 10mm MS Square Rods for horizontal bars at a regular pitch of 150mm welded to MS flat of 12 x 6 mm.		
991	BMT-P.83	i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.	1 Sqm	6212
992	BMT-P.84	ii) Center Shutter Sliding: center shutter frame made of section of size 20mm x 47mm should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick	1 Sqm	6801
993	BMT-P.85	iii) Center Fly mesh Shutter Sliding: Section for Fly mesh Shutter frame should be of size 20mm x 40mm of 0.58mm thick and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed	1 Sqm	6801

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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.		
		Window with 3 shutters (Center fixed shutter / Center sliding shutter / center Fly mesh shutter) and without Grill Window made of Outer Frame of size 90mm x 50mm.		
994	BMT-P.86	i) Center Shutter Fixed: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5mm thick plain float glass of reputed make, EPDM gasket all around the glass and fixed to the Outer Frame with the supporting section of size 29mm x 20mm of 0.58mm thick fixed horizontally on top and bottom of the shutter frame.	1 Sqm	5570
995	BMT-P.87	ii) Center Shutter Sliding: center shutter frame made of section with size 20mm x 47mm of 0.58mm thick should be fitted with 5 mm thick plain float glass of reputed make. The supporting guide section of size 15mm x 19mm of 0.58mm thick fixed horizontally at top and bottom of shutter frame and slides along the bottom and top guide tracks made of sections size 24mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.	1 Sqm	6095
996	BMT-P.88	iii) Center Fly mesh Shutter Sliding: Section for Fly mesh shutter frame should be of size 20mm x 40mm and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm thick and 29mm x 20mm of 0.58mm thick.	1 Sqm	6095
997		Providing and fixing of Openable / Casement Windows made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick 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 and the sections cut to length metre joined with corner bracket, 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 finished item of work.		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
998	BMT-P.89	Single openable shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick	1 sqm	5088
999	BMT-P.90	Double openable shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm	1 sqm	5409
1000	BMT-P.91	Double openable shutter window size of 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame section size 80 x 45mm, shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm	1 sqm	5409
1001	BMT-P.92	Double Openable Shutter and Center Fixed window of size 5'0 x 4'0 (1524 x 1219.2mm)outer frame section size of 80mm x 45mm, shutter frame section size of 52 x 25mm ,Vertical mullion section size of 80 x 60 mm, beading section size of 9 x 12mm to be provided for glass holding	1 sqm	4766
1002	BMT-P.93	Double Openable Shutter and Center Fixed window of size 6'0 x4'0 (1829.6 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 80 x 60 mm, beading section size of 9 x 12mm to be provided for glass holding	1 sqm	4766
		Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
1003		Providing and fixing of Openable / Casement Windows with fly mesh made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick 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 with 144 holes per sq.inch and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, 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 finished item of work.		
1004	BMT-P.94	Single openable shutter window size of 2' 0" x 4' 0" (609.6 x	1 sqm	6748

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm		
1005	BMT-P.95	Double openable shutter window Size of 3' 0" x 4' 0" (914.4mm x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm	1 sqm	7069
1006	BMT-P.96	Double openable shutter window size of 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm	1 sqm	7069
1007	BMT-P.97	Double Openable Shutter and Center Fixed window of size 5'0 x 4'0 (1524 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 100 x 60 mm , beading section size of 9 x 12mm to be provided for glass holding	1 sqm	6427
1008	BMT-P.98	Double Openable Shutter and Center Fixed window of size 6'0 x 4'0 (1829.6 x 1219.2mm)outer frame section size of 80mm x 45mm , shutter frame section size of 52 x 25mm ,Vertical mullion section size of 100 x 60 mm , beading section size of 9 x 12mm to be provided for glass holding	1 sqm	6427
		Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
1009		Providing and fixing of top hung Ventilators made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick 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 and the sections cut to length metre joined with corner bracket, 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 finished item of work.		
1010	BMT-P.99	Single openable ventilator shutter size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 80 x 45mm, shutter	1 sqm	6105

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		frame section size of 52 x 25mm thick		
1011	BMT-P.100	Double openable ventilator shutter Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm, vertical mullion section size of 80 x 60 mm	1 sqm	6105
1013	BMT-P.101	Double openable fix shutter size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size of 80 x 45mm , shutter frame section size of 52 x 25 mm ,Vertical mullion section size of 80 x 60 mm	1 sqm	6105
1014	BMT-P.102	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	1 sqm	4177
1015	BMT-P.103	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	1 sqm	4177
1016	BMT-P.104	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	4177
		Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
1017		Providing and fixing of top hung Ventilator with fly mesh made of pre-painted steel (Base steel as per IS 513 of 0.80 mm thick galvanized as per IS 277 with Zinc of 120 GSM), finish painted with a polyester paint of 60-65 microns thick 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 with 144 holes per sq.inch and mullions to have double rebate for glazed shutter and fly-shutter with a provision for guard bars/grills and the sections cut to length metre joined with corner bracket, 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 finished item of work.		
1018	BMT-P.105	Single openable ventilator shutter window size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 100 x 45mm, Glazed and flymesh shutter frame section size of 52 x 25mm thick	1 sqm	7551

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1019	BMT-P.106	Double openable ventilator shutter window Size of 4' 0" x 2' 0" (1219.2mm x 609.6mm) outer frame section size of 100 x 45mm, Glazed and flymesh shutter frame section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm	1 sqm	7551
1020	BMT-P.107	Double openable fix shutter window size of 4'0" x 3'0" (1219.2mm x 914.4mm) outer frame section size 100 x 45mm , Glazed and flymesh shutter frame section size 52 x 25 mm ,Vertical mullion section size of 100 x 60 mm	1 sqm	7551
1021	BMT-P.108	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, flymesh shutter frame section size 52 x 25 mm	1 sqm	5088
1022	BMT-P.109	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, flymesh shutter frame section size 52 x 25 mm, vertical mullion section size of 100 x 60 mm	1 sqm	5088
1023	BMT-P.110	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 , flymesh shutter frame section size 52 x 25 mm Vertical mullion section size of 100 x 60 mm	1 sqm	5088
		Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
1024	BMT-P.111	Providing, supplying & fixing of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having an overall size of 60 x 55 mm with reinforcement of 1 mm thickness and Mullion with overall size of 74 x 60 mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware. Wall thickness of frame & Mullion shall be 2.0 mm	1 sqm	6005
1025	BMT-P.112	Providing, supplying & fixing of Top hung Ventilator With Exhaust Fan Provision made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer frame having a overall size of 60 x 55 mm with reinforcement of 1 mm thickness, Mullion with overall size of 74 x 60 mm with reinforcement of 1 mm thickness and Sash with overall size of 75 x 60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34 x 20 mm coextruded with gasket. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, single point locking and friction stays. Wall thickness of frame,	1 sqm	8450

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		mullion and sash shall be 2.0 mm		
1026	BMT-P.113	Providing and Fixing Pre painted Steel Sliding Window fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58mm. Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns or powder coated with pure polyester powder up to 50-60 microns thick. Section for external frame bottom should be of 79x44mm, external frame sides and top should be of 69x24mm, guide for top and bottom should be of 69x26mm). Section for shutter should be of 26x30mm. The windows should be paneled with 5mm thick plain float glass. Corner bracket for internal and external frame made of glass filled nylon. Gaskets are to be made of Ethyl Propylene Diamine Monomer (EPDM).The sections are to be cut to length, joined and assembled by means of corner bracket. The above frames should be fixed to the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all Taxes complete for finished item of work.	1 Sqm	6783
1027	BMT-P.114	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	7030

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1028	BMT-P.115	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 TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin) of (80 mm x 52 mm)/ (94 mm x 45 mm) x 2.20 mm for outer frames, (54 mm x 38 mm)/(39 mm x 58 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work	1 Sqm	6595
1029	BMT-P.116	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding windows with mesh shutter – (2-glass shutters and 1-mesh shutter) duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin) of (94 mm x 45 mm)/(80 mm x 52 mm) x 2.20 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make and mesh shutter frame shall be (42 mm x 25 mm)/(52 mm x 21.5 mm) x 2.0 mm fitted with Vinyl Coated Fiber mesh- on rollers/ pulley duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 Sqm	7341
1030	BMT-P.117	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters	1 Sqm	7756

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin) of 60 mm x 55 mm x 2.40 mm for outer frames, 74 mm x 60 mm x 2.40 mm for mullion sections for two or more openable shutters 75 mm x 60 mm x 2.40 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC and accessories for casement window – friction hinges of stainless steel grade 304/430- 2 Nos., per sash, handle with zamak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
1031	BMT-P.118	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 TiO ₂ and not more than 12 PHR of CaCo ₃ 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	6606

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1032	BMT-P.119	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 TiO ₂ and not more than 12 PHR of CaCo ₃ for every 100 parts of PVC resin).Glazing bead for fixing of glass shall be of size 34 x 20 mm coextruded with soft PVC gasket. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, single point locking using cockspur handle and friction stays. Wall thickness of frame, mullion and sash shall be 2.4 mm.,including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.	1 sqm	9295
1033	BMT-P.120	Supplying and fixing of WINDOWS with Pre laminated Cement Bonded Particle boards and Pre-Painted Steel Sections fabricated from pre-painted Cold rolled formed sections made of galvanized steel color coated sections (Base steel as per IS-512 D 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), sections for outer frame and centre mullion (duly filled with PU foam of 40 kg/Cum) of 60mm x 50mm, with provision for fixing glazed shutter and the section for glazed/paneled of size 48 mm x 25 mm and another section of size 60 mm x 23 mm provided for separating glazed and paneled portion, the section cut to length and miter jointed with plastic corner brackets and with corner brackets for window outer frames of 50mm x 60mm, the mullion section fixed to the frame with plastic mullion cap and stiffener plates of size 60 mm x 50 mm made of 1.25mm thick CRCA electroplated provided to fix		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		<p>window frames to concrete/masonry, gasket for fixing glass and 10mm both sides pre-laminated cement bonded particle board and 5 mm thick color pin headed glass provided for glazing and providing guard bars of 10 mm square rods duly welded at 150 mm pitch to MS flat section of size 18 mm and 3 mm thick, and fixed to wall by means of self expansion nylon Cap (75) and electroplated wooden screws of size 100 mm, together with 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 SS Pivot hinges 2 no's per shutter, D) MS Powder coated telescopic stay 1 no per shutter.</p>		
1034	BMT-P.120-A	Pre Laminated Cement Bonded Particle Board WINDOWS – Single shutter 2'0"x4'0" outer frame section size of 50mm x 60mm shutter frame section size of 48mm x 25mm.	1 Sqm	5710
1035	BMT-P.120-B	Pre Laminated Cement Bonded Particle Board WINDOWS –Double shutter 3'0" x 4'0" 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	5765
1036	BMT-P.120-C	Pre Laminated Cement Bonded Particle Board WINDOWS – 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	6296
1037	BMT-P.120-D	Pre Laminated Cement Bonded Particle Board WINDOWS – 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	5823
1038	BMT-P.121	Providing and Fixing Pre painted Steel Sliding Door 3 Track-3 Panel Sliding Door fabricated from Roll formed sections made of galvanized Steel colour coated/powder coated (Base Steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 GM/Sq.mtr) with total coated thickness of 0.58mm. Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7	1 Sqm	7500

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		microns or powder coated with pure polyester powder up to 50-60 microns thick. Section for external frame should be of 107x44mm, Section for shutter should be of 35x67mm. The windows should be paneled with 5mm thick plain float glass. Corner bracket for internal and external frame made of glass filled nylon. Gaskets are to be made of Ethyl Propylene Diamine Monomer (EPDM).The sections are to be cut to length, joined and assembled by means of corner bracket. The above frames should be fixed to the concrete/masonry walls by means of self expanding brackets & screws including 10mm square guard bars with 6" pitch (152.4mm) and all Taxes complete for finished item of work.		
	Q.	STRUCTURAL GLAZING		
1039	BMT-Q.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 with Zinc of 120 Gm/Sqm) with total coated thickness of 0.72 mm and the glass holding section made of 304 grade stainless steel of 0.58 mm thick galvanised 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 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 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 gasket made of Ethyl Propylene Diamine Monomer, 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 complete for finished item of work.	1 Sqm	7288

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1040	BMT-Q.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 with Zinc of 120 Gm/Sqm) with total coated thickness of 0.72 mm 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 of 5-7 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 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 for finished item of work	1 Sqm	5891
1041	BMT-Q.03	Supplying and fixing of curtain Glazing made of 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 and back coated with 5-7 microns thick alkyd backer 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 Ethyl Propylene diameine Monomer (EPDM) gaskets and the sections cut to length, mitre joined with corner bracket, centre mullions fixed suing mullion cap 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) grid outer frames section size of 46 x 52 mm		6013
1042	BMT-Q.04	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm - Fixed Glazing 2'-0" x 3'-0" (609.6x914.4mm) grid outer frame section size of 46 x 52 mm	1 Sqm	6013
1043	BMT-Q.05	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm Fixed Glazing 3'-0" x 3'-0" (914.4x914.4mm) grid outer frame section size of 46 x 52 mm	1 Sqm	4724
1044	BMT-Q.06	Mullion section size of 46 x 70mm Beading section size of 18	1 Sqm	4724

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		x 25 mm Fixed Glazing 3'-0" x 4'-0" (914.4x1219.2mm) grid outer frame section size of 46 x 52 mm		
1045	BMT-Q.07	deleted		Deleted
1046	BMT-Q.08	deleted		Deleted
1047	BMT-Q.09	deleted		Deleted
1048	BMT-Q.10	deleted		Deleted
1049	BMT-Q.11	deleted		Deleted
1050	BMT-Q.12	deleted		Deleted
1051	BMT-Q.13	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 complete for finished item of work		6903
1052	BMT-Q.14	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing - 48 series duly manufactured using UPVC reinforced profiles of 60 mm x 48 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 76 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	3240

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1053	BMT-Q.15	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) Fixed Glazing - 56 series duly manufactured using UPVC reinforced profiles of 60 mm x 56 mm x 2.25 mm for outer frames and the mullion sections are of 60 mm x 70 mm x 2.25 mm frames are structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm the sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work	1 Sqm	3872
	S.	A. DISMANTLING clearing away and carefully stacking materials useful for reuse.		
1054	BMT-S.01	Stone masonry in cement mortar	1 Cum	361
1055	BMT-S.02	Terracing work in roofs or floors	10 Sqm	150
1056	BMT-S.03	Flat stones in roof or floors including lifting	10 Sqm	130
1057	BMT-S.04	Pan tiled or Mangalore tiled roof without roof timbers.	10 Sqm	110
1058	BMT-S.05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	10 Sqm	130
1059	BMT-S.06	Wrought and framed timber in roofs or floors	1 Cum	188
1060	BMT-S.07	Old lime mortar plaster	10 Sqm	40
1061	BMT-S.08	Old cement mortar plaster	10 Sqm	50
1062	BMT-S.09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	60
1063	BMT-S.10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	44
1064	BMT-S.11	Kadapa slabs or Shahabad stone slabs flooring on sand bed	10 Sqm	60
1065	BMT-S.12	Through scraping of old plastered surface	10 Sqm	40
1066	BMT-S.13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	10 Sqm	12
1067	BMT-S.14	clean removal of lime plaster from walls and raking out joints 20mm deep or from terraced roof and raking out joints 100 mm deep	10 Sqm	40
1068	BMT-S.15	Clean removal of cement plaster from walls and raking out joint 200 mm deep	10 Sqm	50
	T.	READY MIX CONCRETE		

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1069	BMT-T.01	Deleted		
1070	BMT-T.02	Deleted		
1071	BMT-T.03	Deleted		
1072	BMT-T.04	Deleted		
1073	BMT-T.05	Deleted		
	U.	EXPANSION JOINT FILLERS		
1074	BMT-U.01	Supply of high performance expansion joint filler board conforming to M.O.S.T - 18 mm THICK	1 Sqm	804
1075	BMT-U.02	Supply of high performance expansion joint filler board conforming to M.O.S.T - 20 mm THICK	1 Sqm	902
1076	BMT-U.03	Supply of high performance expansion joint filler board conforming to M.O.S.T - 25 mm THICK	1 Sqm	1127
1077	BMT-U.04	Supply of expansion joint filler board for buildings, columns, beams and slabs 20 mm THICK	1 Sqm	322
1078	BMT-U.05	Supply of expansion joint filler board for buildings, columns, beams and slabs 25 mm THICK	1 Sqm	403
1079	BMT-U.06	Supply of expansion joint filler board for buildings, columns, beams and slabs 50 mm THICK	1 Sqm	804
1080	BMT-U.07	Supply of back up to cold applied sealant in construction and longitudinal joint - 10 mm OD	1 RM	13
1081	BMT-U.08	Supply of back up to cold applied sealant in construction and longitudinal joint - 12 mm OD	1 RM	15
1082	BMT-U.09	Supply of back up to cold applied sealant in construction and longitudinal joint - 15 mm OD	1 RM	18
1083	BMT-U.10	Supply of back up to cold applied sealant in construction and longitudinal joint - 20 mm OD	1 RM	26
1084	BMT-U.11	Supply of back up to cold applied sealant in construction and longitudinal joint - 25 mm OD	1 RM	32
	V.	LABOUR CHARGES		
1085	BMM-V.01	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 0.0 M to 1.0 M	1 cum	220
1086	BMM-V.02	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 1.0 M to 2.0 M	1 cum	260

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1087	BMM-V.03	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) - Other than sandy soil - 2.0 M to 3.0 M	1 cum	303
1088	BMM-V.04	Bailing out water for earth work excavation / for concrete foundation below water level. (For building items only) Sandy soil - 0.0 M to 1.0 M	1 cum	349
1089	BMM-V.05	Bailing out water for earth work excavation /for concrete foundation below water level. (For building items only) Sandy soil - 1.0 M to 2.0 M	1 cum	542
1090	BMM-V.06	Bailing out water for earth work excavation /concrete for foundation below water level. (For building items only) Sandy soil - 2.0 M to 3.0 M	1 cum	655
1091	BMM-V.07	Labour charges for making, fabricating office furniture, racks, work-station furniture, cup-board shutters 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	550
1092	BMM-V.08	Labour charges for making, fabricating kitchen furniture, cup-boards with shutters, box cup-boards, box racks, 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	840
1093	BMM-V.09	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	1 Rm	95
1094	BMM-V.10	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	289
1095	BMM-V.11	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	374
1096	BMM-V.12	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	1 RM	15
1097	BMM-V.13	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	1 Rm	45
1098	BMM-V.14	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	24
1099	BMM-V.15	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	1 Kg	4

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1100	BMM-V.16	Labour charges for fabricating all 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	21
1101	BMM-V.17	Labour charges for fixing 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	19
1102	BMM-V.18	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	119
1103	BMM-V.19	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	1596
1104	BMM-V.20	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	868
1105	BMM-V.21	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Reverse Etching work	1 Sqm	1074
1106	BMM-V.22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1342
1107	BMM-V.23	Labour charges for fixing Flush door shutters of any thickness to the existing door frame including fixing the fixtures to the door shutter excluding cost of shutter	1 Sqm	348
1108	BMM-V.24	Labour charges for fixing glass panes of any thickness to the existing door / window panes including fixing the beading excluding cost of beading	1 Sqm	260
1109	BMM-V.25	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Fully panelled doors external or internal including frame	1 sqm	1427
1110	BMM-V.26	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Glazed and panelled doors including fixing glass including frame	1 sqm	1349
1111	BMM-V.27	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Framed and planked doors including frame	1 sqm	1183
1112	BMM-V.28	Labour charges for wrought and put up including fixing in	1 sqm	925

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Ledged, braced and planked doors including frame		
1113	BMM-V.29	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Flush type door shutter including frame	1 sqm	713
1114	BMM-V.30	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows glazed including outer frame and shutter frame	1 sqm	913
1115	BMM-V.31	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows panelled including outer frame and shutter frame	1 sqm	1377
1116	BMM-V.32	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows ledged, braced and planked including outer frame	1 sqm	940
1117	BMM-V.33	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows framed and planked including outer frame and shutter frame	1 sqm	1124
1118	BMM-V.34	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Ventilators glazed, fixed with double frame with wire netting including frame	1 sqm	757
1119	BMM-V.35	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Swing ventilators glazed including outer frame and shutter frame	1 sqm	957
1120	BMM-V.36	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Weld mesh doors and windows including outer frame and shutter frame	1 sqm	538

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1121	BMM-V.37	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood G.I or .AC sheet door & windows including outer frame and shutter frame	1 sqm	626
1122	BMM-V.38	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Fully panelled doors external or internal including frame	1 sqm	1320
1123	BMM-V.39	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Glazed and panelled doors including fixing glass including frame	1 sqm	1261
1124	BMM-V.40	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Framed and planked doors including frame	1 sqm	1094
1125	BMM-V.41	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Ledged, braced and planked doors including frame	1 sqm	856
1126	BMM-V.42	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Flush type door shutter including frame	1 sqm	685
1127	BMM-V.43	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows glazed including outer frame and shutter frame	1 sqm	854
1128	BMM-V.44	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows panelled including outer frame and shutter frame	1 sqm	1273
1129	BMM-V.45	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows ledged, braced and planked including outer frame	1 sqm	870

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1130	BMM-V.46	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Windows framed and planked including outer frame and shutter frame	1 sqm	1039
1131	BMM-V.47	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Ventilators glazed, fixed with double frame with wire netting including frame	1 sqm	736
1132	BMM-V.48	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Swing ventilators glazed including outer frame and shutter frame	1 sqm	920
1133	BMM-V.49	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood Weld mesh doors and windows including outer frame and shutter frame	1 sqm	511
1134	BMM-V.50	Labour charges for wrought and put up including fixing in position frames of any size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Other than teakwood G.I or .AC sheet door & windows including outer frame and shutter frame	1 sqm	598
1135	BMM-V.51	Grooves 2-3 mm	1 Rm	50
	W. MISCELLANEOUS ITEMS			
1136	BMS-W.01	Supplying Aluminium anodised Sections for Doors, partitions, windows, Ventilators (including annodization cost)	1 Kg	321
1137	BMS-W.02	Sun Control film to the glazed windows partition including labour charges.	1 sqm	329
1138	BMS-W.03	Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 sqm	838
1139	BMS-W.04	Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 sqm	798
1140	BMS-W.05	Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 sqm	1355
1141	BMS-W.06	Rubber Beading	1 RM	2
1142	BMS-W.07	S&F of marbled flooring with 2.0 mm thick in rolls.	1 sqm	Deleted

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1143	BMS-W.08	S&F Vinyl Flooring with 1.5 mm thick in rolls	1 sqm	Deleted
1144	BMS-W.09	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	1 Litre	228
1145	BMS-W.10	Soft Brush	Each	148
1146	BMS-W.11	Wire Brush	Each	33
1147	BMS-W.12	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 scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 3 mm thk	1 Sqm	2586
1148	BMS-W.13	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 scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 4 mm thk	1 Sqm	2820
1149	BMS-W.14	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 scaffolding and labour charges etc., complete for finished item of work but excluding cost of structural steel fabrication, if any, ACP Cladding - 4 mm thk	1 Sqm	3163
1150	BMS-W.15	CEMENT JALI - 25 mm thick	1 sqm	226
1151	BMS-W.16	CEMENT JALI - 40 mm thick	1 sqm	293
1152	BMS-W.17	CEMENT JALI - 50 mm thick	1 sqm	402
1153	BMS-W.18	Aluminium sheet 24 Gauge	1 Sqm	302
1154	BMS-W.19	7.5mm thick Aluminium Grill (as approved by the department) 3.58 Kg/Sqm.	1 Sqm	1112

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1155	BMS-W.20	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1" (25.4 mm) thick	1 Sqm	991
1156	BMS-W.21	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1/2" (12.7 mm) thick	1 Sqm	568
1157		Supply of hot pressed compression moulded sign plates for making road signs ass per the approved dimensions of National Highway Authority Of India, complete, for finished item of work.		
1158	BMS-W.22	Circular sign plate Dia 400mm.	Each.	577
1159	BMS-W.23	Circular sign plate Dia 600mm.	Each.	1517
1160	BMS-W.24	Circular sing plate Dia 870mm	Each.	3040
1161	BMS-W.25	Triangular sign plate 600mm.	Each.	779
1162	BMS-W.26	Triangular sign plate 900mm.	Each.	1759
1163	BMS-W.27	Square sign plate 600mm.	Each.	1410
1164	BMS-W.28	Square sign plate 1000mm.	Each.	5236
1165	BMS-W.29	Supply of Polyethylene water storage tank double layer conforming to IS:12701-1996 with lid.	Litre.	8
1166		Design, fabrication & supply of light weight pre engineered buildings for a maximum span of 9 metres 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		
1167	BMS-W.30	Steel Structure: - Structure is made up of 50x50X 2.8 m/33x66x2.8mm thick hollow M.S. sections for Trusses, columns, and purloins. - Columns	1 RM	395
1168	BMS-W.31	Steel Structure: - Structure is made up of 50x50X 2.8 m/33x66x2.8mm thick hollow M.S. sections for Trusses, columns, and purloins. Trusses	1 RM	Deleted
1169	BMS-W.32	10 mm thick 200x200 mm M.s. plates for base plates, 250 mm long 12mm Φ anchor bolts with plate washer and nuts complete with one coat of Asian or equivalent red oxide paint.	Each	Deleted
1170	BMS-W.33	Sandwich panels: Sandwich panels of 50 mm thick with 25	1 Sqm	1430

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
		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		
1171	BMS-W.34	U' Tracks & 'H' Section:- Bottom & Top 'U' Tracks are made of 1.25 mm thick 120 GSM G.I. Sheet of size 24x51x26 mm size.	1 RM	154
1172	BMS-W.35	Fabricated 'H' sections are made up of 2 Nos 1.25 mm thick C.R. Of 40 mm width for flanges and 1 Nos of 2 mm thick C.R. of 50 mm width plate for web. will be used	1 RM	222
1173	BMS-W.36	Sandwich Panel joinery is made up of couplers or equivalent made from 0.6 mm G.I. roll formed section to hold 2 Nos of 10 mm board on both sides with 25 mm thermocol in between.	1RM	253
1174	BMS-W.37	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	4591
1175	BMS-W.38	Door Frames :-51 X 51 Stepped ' U' section made from 1.25 mm thick C.R. section with a 32 mm rebate for 30 mm flush door and Door Shutters with 30 mm thick block board / flush doors with boiling water proof plywood complete with necessary Hard ware.	1 Sqm	4394
1176	BMS-W.39	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	4917
1177	BMS-W.40	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	124
1178	BMS-W.41	2) Exterior walls are painted with one coast of primer and 2 coats of exterior emulsion paint .	1 Sqm	111
1179	BMS-W.42	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	97
1180	BMS-W.43	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	1050
1181	BMS-W.44	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	3541

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1182	BMS-W.45	Roofing: - Roofing will be provided with 0.5mm thick galvanized / pre painted G.I. profiled sheets fixed to the purlins with 14 size self drilling screws with neoprene washer. Side laps are stitched with self tapping / drilling screws. End laps are to be sealed with 25x3 mm Butyl tape. The sheets are provided with anti capillary groove.	1 Sqm	799
1183	BMS-W.46	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 (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 and the frame section filled with polyurethane (P.U. Foam) of 40 Kg/Cum; and the sections cut to length and mitre 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.	1 RM	428
1184		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		
1185		b) 2.5 mm x 300 mm long 'T' hinges / 2.5mm x 50 mm x 100mm two way butt hinges (3 Nos for single leaf or 2 Nos for Double leaf /leaf)		
1186		c) 12 mm Dia MS tie rod at bottom with necessary size of nuts on either side.		
1187	BMS-W.47	Preparing gabions with jungle wood	Each	3
1188	BMS-W.48	Planting plants	Each	2
1189	BMS-W.49	Pruning plants	Each	2
1190	BMS-W.50	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	6
1191	BMS-W.51	- do - When scattered in hot weather with extra conveyance from March to June	Each	7
1192	BMS-W.52	Hoisting or lowering of slab	1 cum	105
1193	BMS-W.53	Dressing faces of granite stone (double line dressing)	1 Sqm	174
1194	BMS-W.54	Dressing faces of other than granite stone(double line dressing)	1 Sqm	108

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1195	BMS-W.55	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	456
1196	BMS-W.56	Supply of Pre-painted Galvalume Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Alu-Zinc coating AZ150 GSM. Tensile Strength: 550 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	445
1197	BMS-W.57	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.50mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	400
1198	BMS-W.58	Supply of Pre-painted Galvanized Trapezoidal Profile Roofing sheets with 0.47mm thickness, Coating: Zinc coating Z120 GSM. Tensile Strength: 300 MPA. Paint coating: Regular Modified Polyester painting. Painting Thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. Sheet Width: 1.020, Length: Maximum 12 Meters with Regular Range Colours	1 Sqm	376
1199	BMS-W.59	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.50mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	307
1200	BMS-W.60	Supply of Roof Accessories medium size: Ridge, Barge Cap, Corner Trim, L-Flashing, Down Pipes, Gutter etc., with 0.47mm thick, Width: 0.585, Length: Maximum 2½ Meters	1 RM	274
1201	BMS-W.61	75 mm long screws -	1 Each	4
1202	BMS-W.62	G.I scam bolts & nuts	1 Each	5
1203	BMS-W.63	G.I bolts & nuts	1 Each	5
1204	BMS-W.64	G.I 'J' bolts 8 mm dia	1 Each	10
1205	BMS-W.65	G.I Washers	1 Each	1
1206	BMS-W.66	Limpet washers (for scam & 'J' bolts)	1 Each	1
1207	BMS-W.67	Bitumen washers	1 Each	1
1208	BMS-W.68	White Cement	1 Kg	29

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1209	BMS-W.69	MS Z Hold fasts - 300 mm long of 40 x 40 x 5 mm ISA	1 Each	35
1210	BMS-W.70	Rubber/ Nylon door stop bushes	1 Each	10
1211	BMS-W.71	Nylon rollers for sliding glasses/ aluminium windows	1 Each	15
1212	BMS-W.72	Powder coating or colour annodization- any section	1 RM	50
1213	BMS-W.73	Continuous Piano Hinges Powder coated Mild steel as per IS-3818 : 1992 of nominal size 25 mm (B) of thickness 0.8 to 1.0 mm	1 RM	35
1214	BMS-W.74	Box hinges for cup boards	1 Each	45
1215	BMS-W.75	Magnetic Catchers	1 Each	15
1216	BMS-W.76	Drilling holes in hard rock surfaces up to 18mm dia	1 RM	210
1217	BMS-W.77	Drilling holes in hard rock above 18mm dia	1 RM	293
1218	BMS-W.78	Making holes up to 18mm dia in RCC/ any stones up to 50 mm thick	1 Each	35
1219	BMS-W.79	Making holes above 18mm dia in RCC/ any stones above 50 mm thick	1 Each	49
1220	BMS-W.80	Pressure grouting the drilled holes with neat cement slurry or with approved epoxy bonding agent using pump	1 Each	50
1221	BMS-W.81	Primax-(White cement Based Primer)	10 Kg	1100
1222	BMS-W.82	Super Grip-(Tile Adhesive)	20 Kg	400
1223	X.	MACHINERY CHARGES, HIRE CHARGES FOR CENTRING		
1224	BMC-X.01	Machine charges of rubbing/ polishing floor	1 day	2145
1225	BMC-X.02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	125
1226	BMC-X.03	Power Drill - Hand Operated - Hire Charges	1 Hr	116
1227	BMC-X.04	Grinding Mortar (Spl Grinding)	1 day	1072
1228	BMC-X.05	Casuarina Balli Props - 3" to 4" dia - 12'-0" Height	Each	73
1229	BMC-X.06	Casuarina Balli Props - 4" to 8" dia - 20'-0" Height	Each	121

Sl. No	Item Code	Description of item	Unit	Rate for SoR 2016-17
1	2	3	4	5
1230	BMC-X.07	Wall Plate Brackets / beam bottom supports	Each	212
1231	BMC-X.08	Wedge Plate fixture	Each	10
1232	BMC-X.09	Runner beams of approximately 4" x 4" size	RM	425
1233	BMC-X.10	Steel Plates for form works	1 sqm	1609
1234	BMC-X.11	Scaffolding Pipes & Centering accessories	1 Kg	121
1235	BMC-X.12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	130
1236	BMC-X.13	Hire charges for stationary Concrete pump conforming to IS 21573 Part-1: 2006 to deliver the fresh green concrete	1 Hr	342
1237	BMC-X.14	Concrete delivery pipes conforming to IS 15947 Part I: 2012 to be connected to the pump to delivery point (150 mm Diameter) hire charges per 10 RM	1 Hr	4

- 1 All the items to be used on the works shall be of first quality & ISI marked wherever possible and as approved, workmanship shall be as approved by the Engineer-In-charge of the work.
- 2 Supply Rates for all the materials are based on market rates plus Sales Tax/ Material VAT.
- 3 Works Contract VAT for General/ Composition Scheme on finished items may be allowed in the estimates as applicable.
- 4 SSR Rates for Building items are purely for the guidance of the officers in preparation of estimates vide para.113 of APPWD code. Authority who prepares the estimate is however responsible for proper rates as envisaged in para.45 of APPWD code.

LEGEND:

"BMT" -X.XX

"BMM"-X.XX

"BMS"-X.XX

"BMC"-X.XX

XXX-"A".XX - Denotes the Section

XXX-X."01" - Denotes the Serial Number of the Item in the corresponding Section

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges Rs.	Labour charges Rs.	Centring Charges for 2016-17 (Rs.)	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR CENTERING & SCAFFOLDING					
A	FOOTINGS	277	473	750	per 1 cum
B	BED BLOCKS, BANDS	61	244	305	per 1 cum
C	PEDESTALS	315	753	1068	per 1 cum
D	PLINTH BEAMS	1335	1141	2476	per 1 cum
HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates, etc.,					
E	LINTELS	1133	1211	2344	per 1 cum
F	CHAJJAS - SUNSHADES	224	186	410	per 1 sqm
G	COLUMNS	341	1700	2041	per 1 cum
H	BEAMS	2002	1426	3428	per 1 cum
I	SLABS - Up to 150 mm thick	227	162	389	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	233	166	399	per 1 sqm
K	SLABS - above 300 mm thick	244	174	418	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	824	587	1411	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	578	412	990	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	2276	1621	3897	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	2308	1644	3952	per 1 cum
P	DOME SLABS	3681	2621	6302	per 1 cum
Q	HELICAL STAIRCASES	280	200	480	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	DELETED			
HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc.,					
E	LINTELS	760	953	1713	per 1 cum
F	CHAJJAS - SUNSHADES	150	146	296	per 1 sqm
G	COLUMNS	229	1338	1567	per 1 cum
H	BEAMS	1342	1122	2464	per 1 cum
I	SLABS - Up to 150 mm thick	152	127	279	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	156	131	287	per 1 sqm
K	SLABS - above 300 mm thick	164	137	301	per 1 sqm

L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	553	462	1015	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	387	324	711	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	1526	1276	2802	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	1547	1294	2841	per 1 cum
P	DOME SLABS	2467	2063	4530	per 1 cum
Q	HELICAL STAIRCASES	188	157	345	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATER TANK WALLS	DELETED			

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges Rs.	Labour charges Rs.	Centring Charges for 2016-17 (Rs.)	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for BRICK MASONRY/ STONE MASONRY - 1 sqm (Wall Area)					
A	1st - Floor	9.93	61.83	71.76	per 1 sqm
B	2nd - Floor	9.93	87.78	97.71	per 1 sqm
C	3rd - Floor	9.93	113.7	123.67	per 1 sqm
D	4th - Floor	9.93	139.7	149.62	per 1 sqm
E	5th - Floor	9.93	165.6	175.57	per 1 sqm
F	6th - Floor	9.93	191.6	201.52	per 1 sqm
G	7th - Floor	9.93	217.5	227.47	per 1 sqm
H	8th - Floor	9.93	243.5	253.43	per 1 sqm
I	9th - Floor	9.93	269.5	279.38	per 1 sqm
J	10th - Floor	9.93	295.4	305.33	per 1 sqm
K	11th - Floor	9.93	321.4	331.28	per 1 sqm
L	12th - Floor	9.93	347.3	357.23	per 1 sqm
M	13th - Floor	9.93	373.3	383.19	per 1 sqm
N	14th - Floor	9.93	399.2	409.14	per 1 sqm
O	15th - Floor	9.93	425.2	435.09	per 1 sqm
HIRE CHARGES FOR ACCESS SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for PLASTERING to WALLS - 1 sqm					
A	1st - Floor	0.99	6.18	7.17	per 1 sqm
B	2nd - Floor	0.99	8.78	9.77	per 1 sqm
C	3rd - Floor	0.99	11.37	12.36	per 1 sqm
D	4th - Floor	0.99	13.97	14.96	per 1 sqm
E	5th - Floor	0.99	16.56	17.55	per 1 sqm
F	6th - Floor	0.99	19.16	20.15	per 1 sqm
G	7th - Floor	0.99	21.75	22.74	per 1 sqm
H	8th - Floor	0.99	24.35	25.34	per 1 sqm
I	9th - Floor	0.99	26.94	27.93	per 1 sqm
J	10th - Floor	0.99	29.54	30.53	per 1 sqm
K	11th - Floor	0.99	32.14	33.13	per 1 sqm
L	12th - Floor	0.99	34.73	35.72	per 1 sqm
M	13th - Floor	0.99	37.33	38.32	per 1 sqm
N	14th - Floor	0.99	39.92	40.91	per 1 sqm
O	15th - Floor	0.99	42.52	43.51	per 1 sqm
HIRE CHARGES FOR STAGE SCAFFOLDING - upto 3.66 M using Casurina Ballies, Bamboos, Wooden Reapers, Runners, Wood Posts, Wall Plates etc., for CEILING PLASTERING - 1 sqm					
A	1st - Floor	2.37	12.55	14.92	per 1 sqm
B	2nd - Floor	2.37	17.64	20.01	per 1 sqm
C	3rd - Floor	2.37	22.73	25.1	per 1 sqm
D	4th - Floor	2.37	27.82	30.19	per 1 sqm
E	5th - Floor	2.37	32.91	35.28	per 1 sqm
F	6th - Floor	2.37	38	40.37	per 1 sqm
G	7th - Floor	2.37	43.08	45.45	per 1 sqm
H	8th - Floor	2.37	48.17	50.54	per 1 sqm
I	9th - Floor	2.37	53.26	55.63	per 1 sqm

J	10th - Floor	2.37	58.35	60.72	per 1 sqm
K	11th - Floor	2.37	63.44	65.81	per 1 sqm
L	12th - Floor	2.37	68.53	70.9	per 1 sqm
M	13th - Floor	2.37	73.62	75.99	per 1 sqm
N	14th - Floor	2.37	78.71	81.08	per 1 sqm
O	15th - Floor	2.37	83.8	86.17	per 1 sqm

CENTERING & 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	DOVE SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	1133	224	341	2002	227	233	244	824	578	2276	2308	3681	280
Labour Charges for 1st Floor	L	1211	186	1700	1426	162	166	174	587	412	1621	1644	2621	200
Total Hire Charges (H+L)	T	2344	410	2041	3428	389	399	418	1411	990	3897	3952	6302	480

1st - Floor	L	1211	186	1700	1426	162	166	174	587	412	1621	1644	2621	200
2nd - Floor	L	1332	205	1870	1569	178	183	191	646	453	1783	1808	2883	220
3rd - Floor	L	1453	223	2040	1711	194	199	209	704	494	1945	1973	3145	240
4th - Floor	L	1574	242	2210	1854	211	216	226	763	536	2107	2137	3407	260
5th - Floor	L	1695	260	2380	1996	227	232	244	822	577	2269	2302	3669	280
6th - Floor	L	1817	279	2550	2139	243	249	261	881	618	2432	2466	3932	300
7th - Floor	L	1938	298	2720	2282	259	266	278	939	659	2594	2630	4194	320
8th - Floor	L	2059	316	2890	2424	275	282	296	998	700	2756	2795	4456	340
9th - Floor	L	2180	335	3060	2567	292	299	313	1057	742	2918	2959	4718	360
10th - Floor	L	2301	353	3230	2709	308	315	331	1115	783	3080	3124	4980	380
11th - Floor	L	2422	372	3400	2852	324	332	348	1174	824	3242	3288	5242	400
12th - Floor	L	2543	391	3570	2995	340	349	365	1233	865	3404	3452	5504	420
13th - Floor	L	2664	409	3740	3137	356	365	383	1291	906	3566	3617	5766	440
14th - Floor	L	2785	428	3910	3280	373	382	400	1350	948	3728	3781	6028	460
15th - Floor	L	2906	446	4080	3422	389	398	418	1409	989	3890	3946	6290	480

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

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

FLOOR		LINTELS	CHAJJAS - SUNSHADES	COLUMNS	BEAMS	SLABS - Up to 150 mm thick	SLABS - above 150 mm - Up to 300 mm thick	SLABS - above 300 mm thick	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	PERGOLA SLABS (Only Rib Beams)	ARCH BEAMS - up to 1.5 M Span	ARCH BEAMS - above 1.5 M Span	DOVE SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	760	150	229	1342	152	156	164	553	387	1526	1547	2467	188
Labour Charges for 1st Floor	L	953	146	1338	1122	127	131	137	462	324	1276	1294	2063	157
Total Hire Charges (H+L)	T	1713	296	1567	2464	279	287	301	1015	711	2802	2841	4530	345

1st - Floor	L	953	146	1338	1122	127	131	137	462	324	1276	1294	2063	157
2nd - Floor	L	1048	161	1472	1234	140	144	151	508	356	1404	1423	2269	173
3rd - Floor	L	1144	175	1606	1346	152	157	164	554	389	1531	1553	2476	188
4th - Floor	L	1239	190	1739	1459	165	170	178	601	421	1659	1682	2682	204
5th - Floor	L	1334	204	1873	1571	178	183	192	647	454	1786	1812	2888	220
6th - Floor	L	1430	219	2007	1683	191	197	206	693	486	1914	1941	3095	236
7th - Floor	L	1525	234	2141	1795	203	210	219	739	518	2042	2070	3301	251
8th - Floor	L	1620	248	2275	1907	216	223	233	785	551	2169	2200	3507	267
9th - Floor	L	1715	263	2408	2020	229	236	247	832	583	2297	2329	3713	283
10th - Floor	L	1811	277	2542	2132	241	249	260	878	616	2424	2459	3920	298
11th - Floor	L	1906	292	2676	2244	254	262	274	924	648	2552	2588	4126	314
12th - Floor	L	2001	307	2810	2356	267	275	288	970	680	2680	2717	4332	330
13th - Floor	L	2097	321	2944	2468	279	288	301	1016	713	2807	2847	4539	345
14th - Floor	L	2192	336	3077	2581	292	301	315	1063	745	2935	2976	4745	361
15th - Floor	L	2287	350	3211	2693	305	314	329	1109	778	3062	3106	4951	377

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

List of the Names of the Brand / Manufacturer / Supplier of Building Materials			
Sl. No	SECTION	NAMES OF THE ITEMS	NAMES OF THE BRAND / MANUFACTURER / SUPPLIER
1	SECTION – A	BRICKS & BUILDING BLOCKS	Aerocon, Siporex, Nucon, NCL.
2	SECTION – B	NATURAL FLOORING TILES	
3	SECTION – C	WALL & FLOOR TILES	Somany, Naveen Ceramics, Kajaria, Nitco, Segno, Sphinx, OrientBell, AGL, Hindware, Bisazza, Marblex, Armstrong, Cera.
		TILE ADHESIVES	MYK LATICRETE
4	SECTION – D	PAVING & INTERLOCKING TILES	Super Decorative, Aditya Designer, Maha Bhima, Tricon, Pheonix, Eurocon, Ultra, Sphinx
5	SECTION – E	TIMBER & ROOFING MATERIALS	
6	SECTION – F	MILD, GALVANISED & STAINLESS STEEL	R.K Steels, Sugna TMT Bars, Shyam Steels, Mangal TMT, Mangal TMT 999, Hari Om TMT, Hariom Epoxy Shield.
7	SECTION – G	FIXTURES FOR DOOR & WINDOWS	Jyoti, Classic, Hardwyn.
8	SECTION – H	WATER PROOFING CHEMICALS & ADMIXTURES	MULTI CHEM, MYK LATICRETE, WALRUS, Clean Tech Corison Chemicals, ESSAR.
9	SECTION – I	GLASS	Modi, Saintgobain, Asahi, Binani, HNG.
10	SECTION – J	PAINTS & POLISHES	Asian, Berger, Nerolac, BritishPaints, JKPaints, Saicoat, Indocem, ESSAR, Sheenlac, Suryacem, PMCC, Neon, GRA FLANKS (Wallz), Walrus–SYNTHETIC PLASTER-NCLAlitek, MYKLATICRETE, Multichem, GRA Flanks, INDOCEM, Nippon.
11	SECTION – K	PARTICLE BOARDS	NCL Bison, Ramco-Hilux, Ramco-Hicem, Everest-board, Visakha-board, Rajshri, Innsula, Aerocon, Aerolite, Novopan, Bhutan-board, Green ply
12	SECTION – L	PLYWOOD	Kitply, Century Ply, National Ply, BhutanPly, Samrat, Gurjan ply, AAMODA PLY, NCL, Green ply.
13	SECTION – M	CEILINGS, WALL PARTITIONS & WALL LININGS	Ramco-Hilux, Everest-board, Visakha-board, Rajshri, Innsula, Gypsum India, Saintgobain, Armstrong, Daikin, NCL-Seccolor, NCL Bison, DORMA, NCL, Aerolite, RONDO.
14	SECTION – N	DOORS	Anand, Raavila, Kuty, Standard, Shubhdwar, ITP, Rajshri, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG, Masonite, Everest, Vishaka, Ambience, Aamoda, ALPINE, DORMA, Nagarjuna, NCL Altek & Seccolor, AHLADA.
15	SECTION – P	WINDOWS	LG, AHLADA, NCL Altek & Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, NCL-Wintech, Fenesta.
16	SECTION – Q	STRUCTURAL GLAZING	NCL-Seccolor, NCL-Bison, Elixir, Sintex, Elgi, Oasis, Polywood, Sintex, NCL-Wintech, Fenesta, LG.
17	SECTION – U	EXPANSION JOINT FILLERS	Silseal, Silflex, Armour, Shalitex.
18	SECTION – W	MISCELLANEOUS ITEMS	Sintex for PVC tanks, Centurywells for Galvalume sheets, Elixir for PEB structures, smart coat, Aluminium Sections - Hindalco, Nalco, Jindal, Plywood - Kitply, Century Ply, National Ply, Bhutan Ply, Green Ply, JK Cement Ltd, RONDO.
<p>Note: 1) All Building Materials conforming to ISI Standards, shall be used in all CIVIL, Water Supply & Sanitary Fittings and Electrical Works.</p> <p>2) Not only limiting to the Brand / Manufacturer / Supplier for Materials/Products mentioned above, Material / Product conforming to the Specification and Standards of ISI from any Brand / Manufacturer, shall also be allowed in all CIVIL, Water Supply & Sanitary Fittings and Electrical Works too.</p>			

WATER SUPPLY & SANITARY ITEMS

Sl. No	Item Code	Description of item	Unit	RATE for SoR 2016-17
1	2	3	4	5
A		S.W.G. PIPES & FITTINGS		
1	BMW-A.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	466
2	BMW-A.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	408
3	BMW-A.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	680
4	BMW-A.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	614
5	BMW-A.05	labour charges only for laying, jointing and testing SWG pipes of any dia with air tight 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	232
6	BMW-A.06	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	288
7	BMW-A.07	a)Supplying, laying, jointing and testing 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 76.2 mm thick cover over the sockets.	1 RM	240
8	BMW-A.08	b) - do - labour charges only	1 RM	10
9	BMW-A.09	a)Supplying , laying, jointing and testing 152.4 mmCC 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 76.2 mm thick cover over the sockets.	1 RM	327
10	BMW-A.10	b) - do - labour charges only	1 RM	49
11	BMW-A.11	a) Supplying & Laying 101.6 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	87
12	BMW-A.12	b) - do - labour charges only	1 RM	37

13	BMW-A.13	a) Supplying & Laying 152.4 mm SWG channels with cement mortar joints with suitable brick masonry for fixing the channels in position	1 RM	163
14	BMW-A.14	b) - do - labour charges only	1 RM	51
15	BMW-A.15	Supply of SWG SP-1 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	181
16	BMW-A.16	Supply of SWG SP-1 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	314
17	BMW-A.17	Supply of SWG SP-1 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	485
18	BMW-A.18	Supply of SWG SP-1 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	888
19	BMW-A.19	Supply of SWG SP-1 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1280
20	BMW-A.20	Supply of SWG SP-1 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1742
21	BMW-A.21	Supply of SWG SP-1 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	2100
22	BMW-A.22	Supply of SWG SP-1 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2536
23	BMW-A.23	Supply of SWG SP-2 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	223
24	BMW-A.24	Supply of SWG SP-2 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	332
25	BMW-A.25	Supply of SWG SP-2 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	599
26	BMW-A.26	Supply of SWG SP-2 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	941
27	BMW-A.27	Supply of SWG SP-2 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1446
28	BMW-A.28	Supply of SWG SP-2 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1875
29	BMW-A.29	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	2159
30	BMW-A.30	Supply of SWG SP-2 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2756
31	BMW-A.31	Supply of SWG SP-3 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	285
32	BMW-A.32	Supply of SWG SP-3 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	415
33	BMW-A.33	Supply of SWG SP-3 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	734
34	BMW-A.34	Supply of SWG SP-3 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	1115
35	BMW-A.35	Supply of SWG SP-3 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1558
36	BMW-A.36	Supply of SWG SP-3 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1979

37	BMW-A.37	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	2278
38	BMW-A.38	Supply of SWG SP-3 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	3099
39	BMW-A.39	Supply of SWG Bends conforming to IS standards -100 mm dia	Each	91
40	BMW-A.40	Supply of SWG Bends conforming to IS standards -150 mm dia	Each	168
41	BMW-A.41	Supply of SWG Bends conforming to IS standards -200 mm dia	Each	317
42	BMW-A.42	Supply of SWG Bends conforming to IS standards -250 mm dia	Each	643
43	BMW-A.43	Supply of SWG Bends conforming to IS standards -300 mm dia	Each	816
44	BMW-A.44	Supply of SWG Bends conforming to IS standards -350 mm dia	Each	1020
45	BMW-A.45	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 100 x 100	Each	175
46	BMW-A.46	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 100	Each	258
47	BMW-A.47	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 150 x 150	Each	281
48	BMW-A.48	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 100	Each	400
49	BMW-A.49	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 150	Each	468
50	BMW-A.50	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 200 x 200	Each	537
51	BMW-A.51	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 100	Each	631
52	BMW-A.52	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 150	Each	833
53	BMW-A.53	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 200	Each	1031
54	BMW-A.54	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 250 x 250	Each	1234
55	BMW-A.55	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 100	Each	900
56	BMW-A.56	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 150	Each	1153
57	BMW-A.57	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 200	Each	1405
58	BMW-A.58	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 250	Each	1659
59	BMW-A.59	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 300 x 300	Each	1911
60	BMW-A.60	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 100	Each	1123
61	BMW-A.61	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 150	Each	1440
62	BMW-A.62	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 200	Each	1756
63	BMW-A.63	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 250	Each	2070

64	BMW-A.64	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 300	Each	2387
65	BMW-A.65	Supply of SWG Junctions (T's & Y's) conforming to IS standards with length of barrel 60 cm for - 350 x 350	Each	2701
66	BMW-A.66	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	33
67	BMW-A.67	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	63
68	BMW-A.68	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	120
69	BMW-A.69	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	208
70	BMW-A.70	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	329
71	BMW-A.71	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	413
72	BMW-A.72	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 288.6 mm (12"x9") C.I Frame and hinged cover	Each	568
73	BMW-A.73	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	254
74	BMW-A.74	Labour charges for fixing and laying the SWG Junctions/ Plugs/ Bends of any dia with airtight cement joints as per standard practice	Each	30
75	BMW-A.75	Supply of SWG Saddles conforming to IS standards 150 x 100 mm		184
76	BMW-A.76	Supply of SWG Saddles conforming to IS standards 200 x 100 mm		317
77	BMW-A.77	Supply of SWG Saddles conforming to IS standards 250 x 100 mm		513
B		MAN HOLES & INSPECTION CHAMBERS -AS PER - IS 4111 : Part 1 : 1986		
78	BMW-B.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	6730
79	BMW-B.02	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement	Each	10590

		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.		
80	BMW-B.03	Constructing 904.0 mm (3'0") dia brick masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using 2nd Class Clay Bricks of 225 mm thick from approved source having a minimum crushing strength of 5 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	6518
81	BMW-B.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	10181
82	BMW-B.05	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	6346
83	BMW-B.06	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	3825

84	BMW-B.07	a)Making drainage connection in the existing inspection including all repairs	Each	126
85	BMW-B.08	b) - do - labour charges only	Each	71
C		C.I. PIPES & FITTINGS -AS PER - IS 1729:1979 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
		Supplying and fixing of C.I. Single/ Double Socket soil pipes ISI marked conforming to IS:1729-1979 of reputed 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) and including fixing of M.S. clamps if necessary with required no. of Bombay nails etc., complete		
86	BMW-C.01	3" dia (76.2 mm) Single Socket	1 RM	760
87	BMW-C.02	4" dia (101.6mm) Single Socket	1 RM	998
88	BMW-C.03	6" dia (152.4mm) Single Socket	1 RM	1598
89	BMW-C.04	3" dia (76.2 mm) Double Socket	1 RM	831
90	BMW-C.05	4" dia (101.6mm) Double Socket	1 RM	1109
91	BMW-C.06	6" dia (152.4mm) Double Socket	1 RM	1841
92	BMW-C.07	Labour charges only forfixing 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	227
93	BMW-C.08	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for3" dia (76.2 mm)	Each	296
94	BMW-C.09	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for4" dia (101.6 mm)	Each	376
95	BMW-C.10	Supplying & fixing CI Plain bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for6" dia (152.4 mm)	Each	624
96	BMW-C.11	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 3" dia (76.2 mm)	Each	367
97	BMW-C.12	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 4" dia (101.6 mm)	Each	455
98	BMW-C.13	Supplying & fixing CI Plug (Door) bends 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 6" dia (152.4 mm)	Each	994
99	BMW-C.14	Labour charges only for fixing CI Plain/ Plug (Door) bends with	Each	72

		cement caulked joints and fixing as per site requirements with standard practice		
100	BMW-C.15	Supplying and fixing of 76.2 mm (3") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	462
101	BMW-C.16	Supplying and fixing of 101.6 mm (4") CI soil single junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	723
102	BMW-C.17	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	1714
103	BMW-C.18	Supplying and fixing of 76.2 mm (3") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	388
104	BMW-C.19	Supplying and fixing of 101.6 mm (4") CI soil plain single junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	531
105	BMW-C.20	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	1276
106	BMW-C.21	Labour charges only fixing CI soil single junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	101
107	BMW-C.22	Supplying and Fixing of 76.2 mm (3") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	704
108	BMW-C.23	Supplying and Fixing of 101.6 mm (4") CI soil Double junction with plug : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	855
109	BMW-C.24	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	1999
110	BMW-C.25	Supplying and Fixing of 76.2 mm (3") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	608
111	BMW-C.26	Supplying and Fixing of 101.6 mm (4") CI soil plain Double junction : conforming to IS:1729-1979 with cement caulked joints and fixing	Each	799
112	BMW-C.27	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	1872
113	BMW-C.28	Labour charges only fixing CI soil Double junctions with cement caulked joints and fixing as per site requirements with standard practice	Each	98
114	BMW-C.29	Supplying and Fixing of 75mm 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	298
115	BMW-C.30	Supplying and Fixing of 75mm 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	417

116	BMW-C.31	Supplying and Fixing of 75mm 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	909
117	BMW-C.32	Supplying and Fixing of 115 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	355
118	BMW-C.33	Supplying and Fixing of 115 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	472
119	BMW-C.34	Supplying and Fixing of 115 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	931
120	BMW-C.35	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 76.20 mm (3") C.I. Pipe	Each	410
121	BMW-C.36	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 101.6 mm (4") C.I. Pipe	Each	531
122	BMW-C.37	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	1082
123	BMW-C.38	Labour charges only fixing CI soil Offsets with cement caulked joints and fixing as per site requirements with standard practice	Each	45
124	BMW-C.39	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 practicefor nominal dia 75 mm (3") and grating size 165 mm dia of weight not less than 5.5 Kgs	Each	539
125	BMW-C.40	Supplying & fixing CI floor traps 1st quality ISI marked with C.P. Grating fixing with white cement as per site requirements with standard practicefor nominal dia 100 mm (4") and grating size 100 mm dia of weight not less than 6 Kgs	Each	660
126	BMW-C.41	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 practicefor nominal dia 75 mm (3") and grating size 100 mm dia of weight not less than 4.0 Kgs	Each	329
127	BMW-C.42	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	59
128	BMW-C.43	Boxing of Nahany traps in RCC floors	Each	191
129	BMW-C.44	Boxing of W.C Trap in R.C.C floors	Each	383
130	BMW-C.45	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	181
131	BMW-C.46	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	227
132	BMW-C.47	Supplying & fixing CI Collars (double socket) 1st quality ISI	Each	652

		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		
D		VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 – 1974 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
133	BMW-D.01	Supplying & Fixing Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 580 mm Long	Each	1048
134	BMW-D.02	Supplying & Fixing Indian pattern white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 630 mm Long	Each	1048
135	BMW-D.03	Labour charges only for fixing Indian pattern W.C with "P" or "S" trap	Each	302
136	BMW-D.04	Supplying & Fixing Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 580 mm x 440 mm	Each	1584
137	BMW-D.05	Supplying & Fixing Orissa Pan white glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap: 630 mm x 450 mm	Each	1665
138	BMW-D.06	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	377
139	BMW-D.07	Supplying & Fixing 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	254
140	BMW-D.08	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	69
141	BMW-D.09	Providing Brick masonry seat for Orissa pan/ Indian W.C. using 2nd class bricks as per standard practice	Each	328
142	BMW-D.10	Providing Cement Concrete Squatting plate for Orissa pan/ Indian W.C. in P.C.C. 1:2:4 as per standard practice	Each	98
143	BMW-D.11	Supplying & Fixing low down porcelain flushing tank 10 Lit Capacity with internal components	Each	2534
144	BMW-D.12	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	528
145	BMW-D.13	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 of white glazed with 'P' trap	Each	1860
146	BMW-D.14	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 of white glazed with 'S' trap	Each	1964
147	BMW-D.15	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	264
148	BMW-D.16	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	891
149	BMW-D.17	Labour charges only for fixing plastic seat and lid for European water closet	Each	76
150	BMW-D.18	Supply, Installation and commissioning approved make floor mounted Close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of	Each	9689

		approvedmake 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		
151	BMW-D.19	Supply, Installation and commissioning approved make floor mounted Close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approvedmake 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	14159
152	BMW-D.20	Supply, Installation and commissioning approved make floor mounted close coupled EWC suit CASCADE model 'P' or 'S' trap with dual flush porcelain cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approvedmake 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	18035
153	BMW-D.21	Supplying & Fixing Indian makeFlat 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: 660 x 460 mm - Single C.P. Pillar cock	Each	2713
154	BMW-D.22	Supplying & Fixing Indian makeFlat 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: 630 x 450 mm - Single C.P. Pillar cock	Each	2402
155	BMW-D.23	Supplying & Fixing Indian makeFlat 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: 630 x 450 mm - Double C.P. Pillar cock	Each	2945
156	BMW-D.24	Supplying & Fixing Indian makeFlat 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	1782
157	BMW-D.25	Supplying & Fixing Indian makeFlat Back Wash Hand Basin1st	Each	2169

		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		
158	BMW-D.26	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock	Each	1550
159	BMW-D.27	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain,32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Double C.P. Pillar cock	Each	2015
160	BMW-D.28	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	377
161	BMW-D.29	Supplying and Fixing Pedestal for Wash Hand Basin (H.S.W / Parry / Earthenware)	Each	1256
162	BMW-D.30	Labour charges only for fixing pedestal for wash hand basin	Each	136
163	BMW-D.31	Supplying & Fixing 31.75 mm C.P bottle trap (Heavy type) Parryware or equivalent	Each	451
164	BMW-D.32	Labour charges only for fixing bottle trap to the wash hand basin	Each	53
165	BMW-D.33	Supplying & Fixing white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995	Each	930
166	BMW-D.34	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part 6, Sec-6-1974 fixed with screws complete Indian make : 410 x 265 x 305 mm	Each	2790
167	BMW-D.35	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part 6, Sec-6-1974 fixed with screws complete Indian make : 590 x 375 x 390 mm	Each	3100
168	BMW-D.36	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	150
169	BMW-D.37	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	Each	4959

		nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 600 x 400 x 250		
170	BMW-D.38	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	5579
171	BMW-D.39	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	377
172	BMW-D.40	a) S & F 609.6 x 457.2 x 254 mm RCC terrazzo finished sink (or constructed at site with 50.8mm thick) brass plug and chain including CI cantilever brackets	Each	791
173	BMW-D.41	b) - do - labour charges only	Each	225
E		TAPS & FAUCETS (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
174	BMW-E.01	a) S & F 12.7 mm NP stop cock Indian make heavy duty	Each	474
175	BMW-E.02	b) - do - labour charges only	Each	29
176	BMW-E.03	a) S & F concealed stop cock 12.7 mm (1/2") Indian Make heavy duty	Each	542
177	BMW-E.04	b) - do - labour charges only	Each	43
178	BMW-E.05	a) S & F angle stop cock 12.7 mm dia first quality Indian Make heavy duty	Each	474
179	BMW-E.06	b) - do - labour charges only	Each	43
180	BMW-E.07	a) S & F 12.7 mm N.P bib tap Indian make heavy duty	Each	407
181	BMW-E.08	b) - do - labour charges only	Each	29
182	BMW-E.09	a) S & F 12.7mm N.P bib tap Indian make heavy duty	Each	258
183	BMW-E.10	b) - do - labour charges only	Each	29
184	BMW-E.11	a) S & F 31.75 mm brass plumber Union best Indian first quality	Each	69
185	BMW-E.12	b) - do - labour charges only	Each	14
186	BMW-E.13	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	231
187	BMW-E.14	b) - do - labour charges only	Each	29
188	BMW-E.15	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	204
189	BMW-E.16	b) - do - labour charges only	Each	29
190	BMW-E.17	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	231
191	BMW-E.18	b) - do - labour charges only	Each	29
192	BMW-E.19	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	204
193	BMW-E.20	b) - do - labour charges only	Each	29
194	BMW-E.21	S & F CP Long body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	637
195	BMW-E.22	S & F CP Short body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	611
196	BMW-E.23	S & F 12.7mm heavy duty dia high neck pillar cock 1st quality Indian make	Each	1165
197	BMW-E.24	a) S & F 12.7 mm heavy duty NP Swan Neck Pillar cock	Each	1165
198	BMW-E.25	b) - do - labour charges only	Each	49
199	BMW-E.26	a) S & F 12.7 mm heavy duty NP Sink cock	Each	1165

200	BMW-E.27	b) - do - labour charges only	Each	35
201	BMW-E.28	S&F 12.7 mm dia NP pillar cock heavy duty 1st quality Indian make	Each	611
202	BMW-E.29	S&F 12.7 mm dia NP push cock 1st quality	Each	271
203	BMW-E.30	S&F 12.7 mm dia NP lift cock 1st quality	Each	237
204	BMW-E.31	a)S & F 38.1 mm C.P.waste coupling Half or Full Thread 1st Quality Indian make Parryware or equivalent	Each	237
205	BMW-E.32	b) - do - labour charges only	Each	29
206	BMW-E.33	a) S & F 31.75 mm PVC bottle trap	Each	142
207	BMW-E.34	b) - do - labour charges only	Each	29
208	BMW-E.35	a)S& F 38.1 mm brass plumber union	Each	69
209	BMW-E.36	b) - do - labour charges only	Each	14
210	BMW-E.37	a)S & F 19.05 mm heavy duty NP stop cock Indian make with ISI mark	Each	611
211	BMW-E.38	b) - do - labour charges only	Each	29
F		G.I. PIPES & FITTINGS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
212	BMW-F.01	S& F Glunion 12.7 mm 1st Quality	Each	45
213	BMW-F.02	S& F Glunion 19.05 mm 1st Quality	Each	54
214	BMW-F.03	S& F Glunion 25.4 mm 1st Quality	Each	83
215	BMW-F.04	S& F Glunion 31.75 mm 1st Quality	Each	102
216	BMW-F.05	S& F Glunion 38.1 mm 1st Quality	Each	122
217	BMW-F.06	S& F Glunion 50.8 mm 1st Quality	Each	151
218	BMW-F.07	S& F GI connector 25.4 mm dia	Each	90
219	BMW-F.08	S& F 12.7 mm GI 'T' A class 1st quality	Each	55
220	BMW-F.09	S& F 31.75mm dia GI bend 1st quality	Each	83
221	BMW-F.10	S & F 31.75 mm dia GI 'T' 1st Quality	Each	81
222	BMW-F.11	a) S & F 25.4 mm copper ball cock ith PVC ball Indian make ISI mark	Each	469
223	BMW-F.12	b) - do - labour charges only	Each	44
224	BMW-F.13	a) S & F 19.05 mm copper ball cock ith PVCball Indian make ISI mark	Each	384
225	BMW-F.14	b) - do - labour charges only	Each	41
226	BMW-F.15	a)S & F 12.7 mm copper ball cock ith PVC ball Indian make ISI mark	Each	249
227	BMW-F.16	b) - do - labour charges only	Each	44
228	BMW-F.17	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 25 mm NB Size	Each	1233
229	BMW-F.18	b) - do - labour charges only	Each	44
230	BMW-F.19	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 20 mm NB Size	Each	858
231	BMW-F.20	b) - do - labour charges only	Each	44
232	BMW-F.21	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 15 mm NB Size	Each	636
233	BMW-F.22	b) - do - labour charges only	Each	44

234	BMW-F.23	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 32 mm NB Size	Each	1875
235	BMW-F.24	b) - do - labour charges only	Each	44
236	BMW-F.25	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 40 mm NB Size	Each	2533
237	BMW-F.26	b) - do - labour charges only	Each	67
238	BMW-F.27	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 50 mm NB Size	Each	3711
239	BMW-F.28	b) - do - labour charges only	Each	90
240	BMW-F.29	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 65 mm NB Size	Each	5730
241	BMW-F.30	b) - do - labour charges only	Each	112
242	BMW-F.31	a)S & F Gunmetal Gate (GM peet) valve as per IS - 778 Class - I, Indian make heavy type - 80 mm NB Size	Each	8494
243	BMW-F.32	b) - do - labour charges only	Each	133
244	BMW-F.33	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	470
245	BMW-F.34	b) - do - labour charges only	Each	56
246	BMW-F.35	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	1073
247	BMW-F.36	b) - do - labour charges only	Each	67
248	BMW-F.37	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	2184
249	BMW-F.38	b) - do - labour charges only	Each	112
250	BMW-F.39	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 50 mm NB Size	Each	2990
251	BMW-F.40	b) - do - labour charges only	Each	112
252	BMW-F.41	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	686
253	BMW-F.42	b) - do - labour charges only	Each	54
254	BMW-F.43	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 15 mm NB Size	Each	443
255	BMW-F.44	b) - do - labour charges only	Each	54
256	BMW-F.45	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size	Each	576
257	BMW-F.46	b) - do - labour charges only	Each	54
258	BMW-F.47	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 25 mm NB Size	Each	870
259	BMW-F.48	b) - do - labour charges only	Each	54
260	BMW-F.49	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non	Each	1200

		return) Valve as per IS-778 I-class heavy duty - 32 mm NB Size		
261	BMW-F.50	b) - do - labour charges only	Each	54
262	BMW-F.51	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 40 mm NB Size	Each	1450
263	BMW-F.52	b) - do - labour charges only	Each	54
264	BMW-F.53	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 50 mm NB Size	Each	2300
265	BMW-F.54	b) - do - labour charges only	Each	54
266	BMW-F.55	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 15 mm NB Size	Each	476
267	BMW-F.56	b) - do - labour charges only	Each	54
268	BMW-F.57	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 20 mm NB Size	Each	621
269	BMW-F.58	b) - do - labour charges only	Each	54
270	BMW-F.59	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 25 mm NB Size	Each	912
271	BMW-F.60	b) - do - labour charges only	Each	54
272	BMW-F.61	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 32 mm NB Size	Each	1655
273	BMW-F.62	b) - do - labour charges only	Each	54
274	BMW-F.63	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 40 mm NB Size	Each	2484
275	BMW-F.64	b) - do - labour charges only	Each	54
276	BMW-F.65	a)S & F Gunmetal (GM) Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type - 50 mm NB Size	Each	4345
277	BMW-F.66	b) - do - labour charges only	Each	54
278	BMW-F.67	a) 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	184
279	BMW-F.68	b) - do - labour charges only	1 RM	41
280	BMW-F.69	a) 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	211
281	BMW-F.70	b) - do - labour charges only	1 RM	41
282	BMW-F.71	a) S & F 25 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239 ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	277
283	BMW-F.72	b) - do - labour charges only	1 RM	41
284	BMW-F.73	a) 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	388
285	BMW-F.74	b) - do - labour charges only	1 RM	41
286	BMW-F.75	a) 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	436

287	BMW-F.76	b) - do - labour charges only	1 RM	44
288	BMW-F.77	a) 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	475
289	BMW-F.78	b) - do - labour charges only	1 RM	67
290	BMW-F.79	a) 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	204
291	BMW-F.80	b) - do - labour charges only	1 RM	41
292	BMW-F.81	a) S& F 20 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	227
293	BMW-F.82	b) - do - labour charges only	1 RM	41
294	BMW-F.83	a) S& F 25 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	297
295	BMW-F.84	b) - do - labour charges only	1 RM	41
296	BMW-F.85	a) S& F 32 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	417
297	BMW-F.86	b) - do - labour charges only	1 RM	41
298	BMW-F.87	a) 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	466
299	BMW-F.88	b) - do - labour charges only	1 RM	44
300	BMW-F.89	a) 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	503
301	BMW-F.90	b) - do - labour charges only	1 RM	67
302	BMW-F.91	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	892
303	BMW-F.92	a)S & F 12.7 mm holder bat clamps	Each	13
304	BMW-F.93	b) - do - labour charges only	Each	8
305	BMW-F.94	a)S & F 19.05 mm holder bat clamps	Each	21
306	BMW-F.95	b) - do - labour charges only	Each	8
307	BMW-F.96	a)S & F 25.4 mm holder bat clamps	Each	28
308	BMW-F.97	b) - do - labour charges only	Each	8
309	BMW-F.98	a)S & F 38.1 mm holder bat clamps	Each	32
310	BMW-F.99	b) - do - labour charges only	Each	9

311	BMW-F.100	a) S& F12.7x 152.0 mm NP shower rose heavy	Each	186
312	BMW-F.101	b) - do - labour charges only	Each	20
313	BMW-F.102	a) S& F12.7x 137.0 mm NP shower rose heavy	Each	179
314	BMW-F.103	b) - do - labour charges only	Each	22
315	BMW-F.104	a) S& F12.7x 101.6 mm NP shower rose heavy	Each	170
316	BMW-F.105	b) - do - labour charges only	Each	22
317	BMW-F.106	a) S & F 12.7 x 88.9 CP fancy shower	Each	303
318	BMW-F.107	b) - do - labour charges only	Each	22
319	BMW-F.108	a) Supplying & fixing 12.7 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	47
320	BMW-F.109	b) - do - labour charges only	Each	22
321	BMW-F.110	a) Supplying & fixing 19.05 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	68
322	BMW-F.111	b) - do - labour charges only	Each	21
323	BMW-F.112	a) Supplying & fixing 25.4 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	81
324	BMW-F.113	b) - do - labour charges only	Each	24
325	BMW-F.114	a) Taking branch water connection from the existing 25.4 mm GI pipe including cutting threading, etc, complete with fitting	Each	155
326	BMW-F.115	b) - do - labour charges only	Each	41
327	BMW-F.116	a) Taking branch water connection from the existing 19.05 mm GI pipe including cutting threading, etc, complete with fitting,	Each	88
328	BMW-F.117	b) - do - labour charges only	Each	36
329	BMW-F.118	a) Taking branch water connection from the existing 12.7 mm GI pipe including cutting threading, etc, complete with fitting,	Each	67
330	BMW-F.119	b) - do - labour charges only	Each	31
331	BMW-F.120	Supplying & fixing leather washers for 12.7 mm bib tap and stop cock	Each	1
332	BMW-F.121	Supplying & fixing leather washers for 19.05 mm bib tap and stop cock	Each	3
333	BMW-F.122	Supplying & Fixing 12.7 mm fibre washers	Each	3
334	BMW-F.123	Supplying & Fixing 19.05 mm fibre washers	Each	3
G		PVC PIPES & FITTINGS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
335	BMW-G.01	a) Providing & Placing on Terrace(at all floor levels) polyethylene water storage tank with Double layer approved brand & manufacture with cover and suitable locking arrangement & making necessary holes for inlet & outlets and over flow pipes but without fittings & base support for tanks	1 Lit	6
336	BMW-G.02	b) - do - labour charges only	1 Lit	1
337	BMW-G.03	Supply of Plastic storage tank lid with hinges	Each	76
338	BMW-G.04	Supply & Fixing 76.2 mm dia PVC elbow 1st quality	Each	47
339	BMW-G.05	Supply & fixing 31.75mm dia PVC flexible waste pipe of 914.4 mm length of 1st quality	Each	26
340	BMW-G.06	Supply & Fixing 38.1 mm dia PVC solid waste pipe outlet	Each	89
341	BMW-G.07	Supply & fixing Fancy PVC shelf including all fittings	Each	212

342	BMW-G.08	Supply & fixing of PVC low level systemwith internal components & short bend:10 Litres capacity Single Flush	Each	1455
343	BMW-G.09	Supply & fixing of PVC low level systemwith internal components & short bend:10 litres capacity Dual Flush	Each	1708
344	BMW-G.10	Supply & fixing of PVC low level systemwith internal components & short bend:8 Litres capacity single Flush	Each	823
345	BMW-G.11	75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	255
346	BMW-G.12	90 mm dia 3 M single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	405
347	BMW-G.13	110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	484
348	BMW-G.14	75 mm dia 3 MDouble Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	288
349	BMW-G.15	90 mm dia 3 MDouble Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	459
350	BMW-G.16	110 mm dia 3 MDouble Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	562
351	BMW-G.17	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	179
352	BMW-G.18	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	277
353	BMW-G.19	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	344
354	BMW-G.20	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	191
355	BMW-G.21	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	294
356	BMW-G.22	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	356
357	BMW-G.23	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	132
358	BMW-G.24	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	202
359	BMW-G.25	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	243
360	BMW-G.26	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	111
361	BMW-G.27	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	163
362	BMW-G.28	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	210
363	BMW-G.29	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	67
364	BMW-G.30	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	112
365	BMW-G.31	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	140
366	BMW-G.32	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	1153
367	BMW-G.33	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	432
368	BMW-G.34	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	696
369	BMW-G.35	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	828
370	BMW-G.36	75 mm dia 3 MDouble Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	473

371	BMW-G.37	90 mm dia 3 MDouble Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	750
372	BMW-G.38	110 mm dia 3 MDouble Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	914
373	BMW-G.39	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	284
374	BMW-G.40	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	441
375	BMW-G.41	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	525
376	BMW-G.42	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	303
377	BMW-G.43	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	459
378	BMW-G.44	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	567
379	BMW-G.45	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	205
380	BMW-G.46	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	318
381	BMW-G.47	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	387
382	BMW-G.48	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	177
383	BMW-G.49	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	260
384	BMW-G.50	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	314
385	BMW-G.51	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	114
386	BMW-G.52	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	178
387	BMW-G.53	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	227
388	BMW-G.54	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	1885
389	BMW-G.55	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	50
390	BMW-G.56	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	70
391	BMW-G.57	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	83
392	BMW-G.58	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	67
393	BMW-G.59	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	95
394	BMW-G.60	110 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	107
395	BMW-G.61	75 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	39
396	BMW-G.62	90 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	54
397	BMW-G.63	110 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	70
398	BMW-G.64	75 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	67
399	BMW-G.65	90 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	98
400	BMW-G.66	110 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	118

401	BMW-G.67	75 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	59
402	BMW-G.68	90 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	89
403	BMW-G.69	110 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	108
404	BMW-G.70	75 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	73
405	BMW-G.71	90 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	108
406	BMW-G.72	110 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	130
407	BMW-G.73	75 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	125
408	BMW-G.74	90 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	183
409	BMW-G.75	110 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	260
410	BMW-G.76	75 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	200
411	BMW-G.77	90 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	286
412	BMW-G.78	110 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	295
413	BMW-G.79	75 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	74
414	BMW-G.80	90 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	118
415	BMW-G.81	110 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	136
416	BMW-G.82	75 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	95
417	BMW-G.83	90 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	149
418	BMW-G.84	110 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	171
419	BMW-G.85	75 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	102
420	BMW-G.86	90 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	158
421	BMW-G.87	110 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	179
422	BMW-G.88	75 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	132
423	BMW-G.89	90 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	206
424	BMW-G.90	110 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	231
425	BMW-G.91	75 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	35
426	BMW-G.92	90 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	51
427	BMW-G.93	110 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	57
428	BMW-G.94	90 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	59
429	BMW-G.95	110 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	57
430	BMW-G.96	90 x 110mm dia - Reducer - UPVC/SWR Pipe fittings	Each	79
431	BMW-G.97	63 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	9
432	BMW-G.98	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	14
433	BMW-G.99	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	17
434	BMW-G.100	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	19
435	BMW-G.101	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	11
436	BMW-G.102	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	14
437	BMW-G.103	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	14
438	BMW-G.104	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	15
439	BMW-G.105	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	17
440	BMW-G.106	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	18
441	BMW-G.107	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	35
442	BMW-G.108	P' Trap (Small without Air vent) 110 mm - UPVC/SWR Pipe	Each	188

		fittings		
443	BMW-G.109	P' Trap (Small with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	208
444	BMW-G.110	P' Trap (Big with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	238
445	BMW-G.111	P' Trap (Big without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	219
446	BMW-G.112	Floor Trap (Bell Mouth) 110 mm - UPVC/SWR Pipe fittings	Each	227
447	BMW-G.113	Bell Mouth Trap 7 " (177.8 mm) - UPVC/SWR Pipe fittings	Each	330
448	BMW-G.114	4" (101.6 mm) Nahany Trap (Without Jali with inlet)UPVC/SWR Pipe fittings	Each	112
449	BMW-G.115	3" (76.2 mm) Nahany Trap (without Jali without inlet)UPVC/SWR Pipe fittings	Each	87
450	BMW-G.116	4" (101.6 mm) Nahany Trap (without inlet with out Jali)UPVC/SWR Pipe fittings	Each	108
451	BMW-G.117	Mini Trap - UPVC/SWR Pipe fittings	Each	53
452	BMW-G.118	3" (76.2 mm) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	102
453	BMW-G.119	4" (101.6 mm) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	144
454	BMW-G.120	4" (101.6) multi floor trap with out Jalli- UPVC/SWR Pipe fittings	Each	112
455	BMW-G.121	Round Jali - UPVC/SWR Pipe fittings	Each	24
456	BMW-G.122	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	39
457	BMW-G.123	Pipe connector(with LIP ring) - UPVC/SWR Pipe fittings	Each	151
458	BMW-G.124	Pipe connector(with out LIP ring) - UPVC/SWR Pipe fittings	Each	117
459	BMW-G.125	4" (101.6 mm) Floor Trap - UPVC/SWR Pipe fittings	Each	138
460	BMW-G.126	5" (127.mm) floor Trap - UPVC/SWR Pipe fittings	Each	146
461	BMW-G.127	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	57
462	BMW-G.128	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	64
463	BMW-G.129	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	74
464	BMW-G.130	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	53
465	BMW-G.131	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	61
466	BMW-G.132	110 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	64
467	BMW-G.133	75 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	8
468	BMW-G.134	90 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	9
469	BMW-G.135	110 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	11
470	BMW-G.136	75 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	9
471	BMW-G.137	90 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	11
472	BMW-G.138	110 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	14
473	BMW-G.139	LIP ring 110 mm - UPVC/SWR Pipe fittings	Each	69
474	BMW-G.140	Rubber Lubricant - 100 Grams	Each	29
475	BMW-G.141	Rubber Lubricant- 250Grams	Each	65
476	BMW-G.142	Rubber Lubricant - 500 Grams	Each	118
477	BMW-G.143	Rubber Lubricant - 1000 Grams	Each	219
478	BMW-G.144	P' Trap with lip UPVC/SWR Pipe fittings	Each	298
479	BMW-G.145	50 ml - Solvent Cement	Each	15

480	BMW-G.146	100 ml - Solvent Cement	Each	25
481	BMW-G.147	250 ml - Solvent Cement	Each	59
482	BMW-G.148	500 ml - Solvent Cement	Each	116
483	BMW-G.149	1000 ml - Solvent Cement	Each	227
484	BMW-G.150	110mm x 90 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	90
485	BMW-G.151	160 mm x 110 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	224
486	BMW-G.152	Labour charges for laying, fixing and commissioning the PVC pipes including couplers/ bends/ tees etc any diameter including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with solvent jointing as per standard practice	1 RM	70
H		CENTRIFUGAL CAST IRON PIPES & FITTINGS AS PER IS: 3989 - 1984		
487	BMW-H.01	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1500
488	BMW-H.02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1997
489	BMW-H.03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	3661
490	BMW-H.04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1665
491	BMW-H.05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	2247
492	BMW-H.06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1349
493	BMW-H.07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1802
494	BMW-H.08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1207
495	BMW-H.09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1604
496	BMW-H.10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	982
497	BMW-H.11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1281
498	BMW-H.12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1032
499	BMW-H.13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1281
500	BMW-H.14	75 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	358
501	BMW-H.15	100 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	411
502	BMW-H.16	75 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	513
503	BMW-H.17	100 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	589
504	BMW-H.18	150 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	1125
505	BMW-H.19	75 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	707
506	BMW-H.20	100 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	781
507	BMW-H.21	150 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	1409
508	BMW-H.22	75 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1084

509	BMW-H.23	100 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1463
510	BMW-H.24	75 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1193
511	BMW-H.25	100 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1785
512	BMW-H.26	75 mm dia Plain Bend - CI (Spun) fittings	Each	368
513	BMW-H.27	100 mm dia Plain Bend - CI (Spun) fittings	Each	433
514	BMW-H.28	150 mm dia Plain Bend - CI (Spun) fittings	Each	1033
515	BMW-H.29	75 mm dia Door Bend - CI (Spun) fittings	Each	381
516	BMW-H.30	100 mm dia Door Bend - CI (Spun) fittings	Each	494
517	BMW-H.31	150 mm dia Door Bend - CI (Spun) fittings	Each	1130
518	BMW-H.32	75 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	368
519	BMW-H.33	100 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	433
520	BMW-H.34	150 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	1033
521	BMW-H.35	75 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	381
522	BMW-H.36	100 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	494
523	BMW-H.37	150 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	1130
524	BMW-H.38	Horn Bend Plain 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	750
525	BMW-H.39	Horn Bend door 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	875
526	BMW-H.40	75 mm dia Heel Rest Bend - CI (Spun) fittings	Each	392
527	BMW-H.41	100 mm dia Heel Rest Bend - CI (Spun) fittings	Each	501
528	BMW-H.42	150 mm dia Heel Rest Bend - CI (Spun) fittings	Each	1065
529	BMW-H.43	75 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	494
530	BMW-H.44	100 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	666
531	BMW-H.45	150 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	1375
532	BMW-H.46	75 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	582
533	BMW-H.47	100 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	773
534	BMW-H.48	150 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	1452
535	BMW-H.49	75 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	582
536	BMW-H.50	100 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	773
537	BMW-H.51	150 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	1704
538	BMW-H.52	75 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	638
539	BMW-H.53	100 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	853
540	BMW-H.54	150 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	1836
541	BMW-H.55	75 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	675
542	BMW-H.56	100 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	908
543	BMW-H.57	75 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	752
544	BMW-H.58	100 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	947
545	BMW-H.59	75 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	752
546	BMW-H.60	100 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	947
547	BMW-H.61	75 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	793

548	BMW-H.62	100 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	1028
549	BMW-H.63	75 mm dia Shoe Bend - CI (Spun) fittings	Each	465
550	BMW-H.64	100 mm dia Shoe Bend - CI (Spun) fittings	Each	544
551	BMW-H.65	150 mm dia Shoe Bend - CI (Spun) fittings	Each	1105
552	BMW-H.66	75 mm dia Collar - CI (Spun) fittings	Each	318
553	BMW-H.67	100 mm dia Collar - CI (Spun) fittings	Each	386
554	BMW-H.68	150 mm dia Collar - CI (Spun) fittings	Each	793
555	BMW-H.69	75 mm dia Cowl - CI (Spun) fittings	Each	281
556	BMW-H.70	100 mm dia Cowl - CI (Spun) fittings	Each	318
557	BMW-H.71	150 mm dia Cowl - CI (Spun) fittings	Each	714
558	BMW-H.72	75 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	407
559	BMW-H.73	100 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	494
560	BMW-H.74	150 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	997
561	BMW-H.75	75 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	445
562	BMW-H.76	100 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	582
563	BMW-H.77	150 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	1161
564	BMW-H.78	75 mm dia Long Door Bend - CI (Spun) fittings	Each	936
565	BMW-H.79	100 mm dia Long Door Bend - CI (Spun) fittings	Each	1007
566	BMW-H.80	75 mm dia Hand Hole pipe (Inspection pipe)	Each	538
567	BMW-H.81	100 mm dia Hand Hole pipe (Inspection pipe)	Each	732
568	BMW-H.82	150 mm dia Hand Hole pipe (Inspection pipe)	Each	975
569	BMW-H.83	75 mm dia P Traps - CI (Spun) fittings	Each	582
570	BMW-H.84	100 mm dia P Traps - CI (Spun) fittings	Each	798
571	BMW-H.85	4" x 3" (101.6 mm x 76.2mm) P. Traps 100 mm dia - CI (Spun) fittings	Each	915
572	BMW-H.86	4" x 3" (101.6 mm x 76.2mm) Vent Traps 100 mm dia - CI (Spun) fittings	Each	915
573	BMW-H.87	4" x 3" (101.6 mm x 76.2mm) Reducer 75 mm dia - CI (Spun) fittings	Each	568
574	BMW-H.88	6" x 4" (152.4 mm x 101.6 mm) Reducer 75 mm dia - CI (Spun) fittings	Each	778
575	BMW-H.89	3" x 2" (76.2 mm x 50.8 mm) plain T 75 mm dia - CI (Spun) fittings	Each	486
576	BMW-H.90	3" x 2" (76.2 mm x 50.8 mm) Door T 75 mm dia - CI (Spun) fittings	Each	758
577	BMW-H.91	3" x 2" (76.2 mm x 50.8 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	758
578	BMW-H.92	3" x 2" (76.2 mm x 50.8 mm) Door Y 75 mm dia - CI (Spun) fittings	Each	758
579	BMW-H.93	4" x 3" (101.6 mm x 76.2mm) Plain T 75 mm dia - CI (Spun) fittings	Each	758
580	BMW-H.94	4" x 3" (101.6 mm x 76.2mm) Door T 75 mm dia - CI (Spun) fittings	Each	803
581	BMW-H.95	4" x 3" (101.6 mm x 76.2mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	803

582	BMW-H.96	4" x 3" (101.6 mm x 76.2mm) DoorY75 mm dia - CI (Spun) fittings	Each	857
583	BMW-H.97	6" x 4" (152.4 mm x101.6 mm) Plain T 75 mm dia - CI (Spun) fittings	Each	1122
584	BMW-H.98	6" x 4" (152.4 mm x101.6 mm)Door T 75 mm dia - CI (Spun) fittings	Each	1216
585	BMW-H.99	6" x 4" (152.4 mm x101.6 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	1286
586	BMW-H.100	6" x 4" (152.4 mm x101.6 mm)DoorY 75 mm dia - CI (Spun) fittings	Each	1572
587	BMW-H.101	75 mm diaPlain " T" 27 " (685.8 mm) Special Types of Long Fittings	Each	1629
588	BMW-H.102	100 mm dia - Plain " T" 27 " (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2288
589	BMW-H.103	75 mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	1819
590	BMW-H.104	100mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2514
591	BMW-H.105	75 mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1819
592	BMW-H.106	100mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2514
593	BMW-H.107	75 mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2028
594	BMW-H.108	100mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2760
I		MISCELLANEOUS ITEMS		
595	BMW-I.01	a) Supplying & Fixing solder joints up to 50.8 mm dia	Each	66
596	BMW-I.02	b) - do - labour charges only	Each	19
597	BMW-I.03	a) Supplying & Fixing solution joints up to 50.8 dia 1st quality.	Each	13
598	BMW-I.04	b) - do - labour charges only	Each	2
599	BMW-I.05	Chiselling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	30
600	BMW-I.06	Chiselling the stone masonry wall and repairs as directed by the department.	1 Rm	143
601	BMW-I.07	Chiselling the brick masonry wall and repairs as directed by the department.	1 Rm	30
602	BMW-I.08	a) S & F NP telephonic shower spray set & valve mixer with rest and all fittings complete (ARK/ESSCO or equivalent make)	Each	2167
603	BMW-I.09	b) - do - labour charges only	Each	401
604	BMW-I.10	a) S & F NP shower spray fancy with NP Flexible pipe	Each	576
605	BMW-I.11	b) - do - labour charges only	Each	133
606	BMW-I.12	a) S & F NP cover for Nahany trap	Each	31
607	BMW-I.13	b) - do - labour charges only	Each	19
608	BMW-I.14	a) Painting the flushing tank with white enamel paint	Each	113
609	BMW-I.15	b) - do - labour charges only	Each	64
610	BMW-I.16	S & F internal fittings for flush tank Parryplast wonder flush or	Each	820

		equivalent		
611	BMW-I.17	Repairing and over hauling flushing tank	Each	94
612	BMW-I.18	a) Supplying & Fixing NP chain rubber and plug for basin	Each	42
613	BMW-I.19	b) - do - labour charges only	Each	8
614	BMW-I.20	a) S & F 25.4 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	164
615	BMW-I.21	b) - do - labour charges only	Each	44
616	BMW-I.22	a) S & F 19.04 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	142
617	BMW-I.23	b) - do - labour charges only	Each	67
618	BMW-I.24	a) S & F 609.6 mm long 127 mm wide plate glass shelf with superior quality aluminium railing complete with aluminium screws	Each	209
619	BMW-I.25	b) - do - labour charges only	Each	56
620	BMW-I.26	a) S & F 609.6 mm long 127 mm wide plate glass shelf only	Each	69
621	BMW-I.27	b) - do - labour charges only	Each	11
622	BMW-I.28	a) S & F NP soap dish heavy type with NP SCREWS	Each	243
623	BMW-I.29	b) - do - labour charges only	Each	12
624	BMW-I.30	a) S & F NP holder brackets with screws	Each	48
625	BMW-I.31	b) - do - labour charges only	Each	14
626	BMW-I.32	a) S & F liquid soap container NP metallic with NP brackets and screws.	Each	243
627	BMW-I.33	b) - do - labour charges only	Each	22
628	BMW-I.34	a) S & F 31.75 mm C.P TRAPS	Each	314
629	BMW-I.35	b) - do - labour charges only	Each	44
630	BMW-I.36	a) Supplying & fixing 88.9 mm A.C cowls	Each	71
631	BMW-I.37	b) - do - labour charges only	Each	14
632	BMW-I.38	a)Supplying & fixing A.CCowl 63.5 mm dia	Each	48
633	BMW-I.39	b) - do - labour charges only	Each	11
634	BMW-I.40	Removing and refixing W.C s	Each	228
635	BMW-I.41	Removing and refixing wash hand basins of any size with fittings complete	Each	220
636	BMW-I.42	a)S & F 76.2 x 101.6 mm teak wood block complete	Each	26
637	BMW-I.43	b) - do - labour charges only	Each	9
638	BMW-I.44	Cutting holes in C.C; basement & repairs Labour charges only	Each	107
639	BMW-I.45	Cutting holes in stone masonry& basement and repairs Labour charges only	Each	72
640	BMW-I.46	Cutting holes in Brick masonry& repairs Labour charges only	Each	47
641	BMW-I.47	Cutting holes in RCC slab floor & repairs Labour charges only	Each	72
642	BMW-I.48	a)Supplying & Fixing 12.7 mm PVC connection with brass union nut C.P coated	Each	102
643	BMW-I.49	b) - do - labour charges only	Each	20
644	BMW-I.50	a) S & F 12.7 mm .M.P couplings	Each	35
645	BMW-I.51	b) - do - labour charges only	Each	11
646	BMW-I.52	a) S & F 19.05 mm M.P couplings	Each	42

647	BMW-I.53	b) - do - labour charges only	Each	11
648	BMW-I.54	a) S & F MP coupling 25.4 mm dia	Each	95
649	BMW-I.55	a) S & FPVC Rubber adopter for LLC and bend	Each	19
650	BMW-I.56	b) - do - labour charges only	Each	8
651	BMW-I.57	a) S & F 31.75 mm Brass union nuts	Each	35
652	BMW-I.58	b) - do - labour charges only	Each	7
653	BMW-I.59	a) S & F 38.1 mm Brass union nuts	Each	37
654	BMW-I.60	b) - do - labour charges only	Each	9
655	BMW-I.61	a) Constructing Brick masonry chamber over the gully trap or peet valve and fitted with 304.8 x 228.6 m size CI frame and hinged cover.	Each	474
656	BMW-I.62	b) - do - labour charges only	Each	100
657	BMW-I.63	a) Constructing Brick masonry support for G.I pipe with C.M 304.8 x 228.6 x228.6 mm size includingplastering and finishing etc. complete.	Each	76
658	BMW-I.64	b) - do - labour charges only	Each	22
659	BMW-I.65	a) Supplying & fixing 304.8 x 228.6 mm CI frame & cover over gully taps	Each	124
660	BMW-I.66	b) - do - labour charges only	Each	35
661	BMW-I.67	a) Supplying & fixing CI Nahany trap grating	Each	20
662	BMW-I.68	b) - do - labour charges only	Each	11
663	BMW-I.69	a) Supplying & fixing CI gully trap grating	Each	50
664	BMW-I.70	b) - do - labour charges only	Each	11
665	BMW-I.71	a) Supplying & fixing valves for brass ball cocks 25.4 mm dia	Each	19
666	BMW-I.72	b) - do - labour charges only	Each	9
667	BMW-I.73	a) Supplying & fixing 12.7 m valve for bib tap or stop cocks	Each	18
668	BMW-I.74	b) - do - labour charges only	Each	7
669	BMW-I.75	a) Supplying & fixing 19.05 m valve for bib tap or stop cocks	Each	39
670	BMW-I.76	b) - do - labour charges only	Each	11
671	BMW-I.77	Removing 12.7 mm Glpipe and refixing the same	Mr.	68
672	BMW-I.78	Removing 19.05 mm Glpipe and refixing the same	Mr.	75
673	BMW-I.79	Removing 25.4 mm Glpipe and refixing the same	Mr.	112
674	BMW-I.80	Removing 38.1 mm Glpipe and refixing the same	Rm	142
675	BMW-I.81	Removing 50.8 mm Glpipe and refixing the same	Rm	166
676	BMW-I.82	Cleaning the W.C with acid and Vim powder	Each	46
677	BMW-I.83	Cleaning the Urinal with acid and Vim power	Each	46
678	BMW-I.84	Cleaning the wash basin with acid and Vim powder	Each	46
679	BMW-I.85	Cleaning theE.W.C with acid and Vim power	Each	46
680	BMW-I.86	Supplying & fixing 914.4 x 457.2 mm CI man hole frame and cover (light weight) 30 Kgs	Each	2020
681	BMW-I.87	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	3003
682	BMW-I.88	b) - do - labour charges only	Each	140
683	BMW-I.89	a) Supplying & fixing CI steps for septic tank.	Each	65
684	BMW-I.90	b) - do - labour charges only	Each	11

685	BMW-I.91	a) Supplying & fixing 50.8cm dia C.I. Man hole frame & cover for 914.4 mm dia chamber (20 Kgs - Light weight)	Each	1299
686	BMW-I.92	b) - do - labour charges only	Each	140
687	BMW-I.93	a) 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	2683
688	BMW-I.94	b) - do - labour charges only	Each	356
689	BMW-I.95	Cost. 50.8 mm thick RCM baffle wall with 2.267 Kg steel & rabbit wire mesh in CM 1:3 with fine rendering in neat cement labour charges Only	1Sqm	251
690	BMW-I.96	a) Cost. 50.8 mm RCC partition wall	1Sqm	273
691	BMW-I.97	b) - do - labour charges only	1 Sqm	44
692	BMW-I.98	a)S& F double layer of bamboo matting tarred on both sides.	10 Sqm	624
693	BMW-I.99	b) - do - labour charges only	10 Sqm	123
694	BMW-I.100	Removing of 101.6 m or 76.2 mm CI pipe	1 RM	36
695	BMW-I.101	a) Supplying & fixing 76.2 mm W.I clamps	Each	25
696	BMW-I.102	b) - do - labour charges only	Each	9
697	BMW-I.103	a) Supplying & fixing NP coat hook	Each	47
698	BMW-I.104	b) - do - labour charges only	Each	11
699	BMW-I.105	a) Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457 .2 mm	Each	513
700	BMW-I.106	b) - do - labour charges only	Each	116
701	BMW-I.107	a) Supplying & fixing GI pipe plug of size 12.7 mm dia	Each	10
702	BMW-I.108	b) - do - labour charges only	Each	1
703	BMW-I.109	a) Supplying & fixing 19.06 mm dia GI plug	Each	14
704	BMW-I.110	b) - do - labour charges only	Each	1
705	BMW-I.111	a) Supplying and fixing 38.1 mm dia of GI plug	Each	72
706	BMW-I.112	b) - do - labour charges only	Each	9
707	BMW-I.113	a) Supplying & fixing 50.8 mm dia of GI PLUG	Each	110
708	BMW-I.114	b) - do - labour charges only	Each	11
709	BMW-I.115	a) Supplying & fixing 76.2 mm dia of GI PLUG	Each	200
710	BMW-I.116	b) - do - labour charges only	Each	19
711	BMW-I.117	a) Supplying & fixing C.P flange.	Each	26
712	BMW-I.118	b) - do - labour charges only	Each	8
713	BMW-I.119	a) Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	7552
714	BMW-I.120	b) - do - labour charges only	Each	506
715	BMW-I.121	a) 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	5935
716	BMW-I.122	b) - do - labour charges only	Each	491
717	BMW-I.123	a) Supplying & fixing stainless steel sink size 20" x18" x 8 "(508x457.2x203.2mm) 1 mm thick with accessories	Each	5396
718	BMW-I.124	b) - do - labour charges only	Each	449
719	BMW-I.125	Supplying & fixing 4 " x 24 " (101.6x609.6mm) white glazed	Each	545

		porcelain channel fixed in brick masonry white cement pointing.		
720	BMW-I.126	Supply & Fixing of steel surgical long elbow action handle 12.7 mm dia bib cock Indian make heavy type including all materials	Each	990
721	BMW-I.127	Supply & fixing 2 1/2" (63.5mm) dia Sluice valve ISI mark with 2 Nos. flanges, 8 nos, 3/4" dia nuts & bolts and all necessary washers and packing materials etc. complete	Each	5420
722	BMW-I.128	Supply & fixing porcelain P' trap	Each	233
723	BMW-I.129	Supplying & fixing oval shape basin white (520x410mm)parry or equivalent	Each	2481
724	BMW-I.130	Supply & fixing RCC cover 22" dia with nominal reinforcement 3 " thick and hooks for lifting	Each	734
725	BMW-I.131	Supply & fixing cp spl. Grating with frame and cover of 1 st quality	Each	63
726	BMW-I.132	Supply & fixing towel rod (CP) of 24" long and 3/4 " dia	Each	396
727	BMW-I.133	Supply & fixing of LLC handle set 1stquality	Each	79
728	BMW-I.134	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000 Lit	55
729	BMW-I.135	Supply & fixing 4" dia CP thimble pipe: 150 mm long	Each	413
730	BMW-I.136	Supply & fixing 4" dia CP thimble pipe: 220 mm long	Each	617
731	BMW-I.137	Supply & fixing 4" dia CP thimble pipe: 300 mm long	Each	824
732	BMW-I.138	Supply & fixing CP long bend	Each	349
733	BMW-I.139	Supply & fixing CP short bend	Each	175
734	BMW-I.140	Supplying & fixing 15 mm bib tap with flange Chromeum plated Jaquar make queen series	Each	1721
735	BMW-I.141	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook ofJaquar make queen series with 7 years warranty Chrome plated	Each	4360
736	BMW-I.142	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook ofJaquar make queen series with 7 years warranty: Ivory gold	Each	7332
737	BMW-I.143	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1806
738	BMW-I.144	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Ivory gold	Each	3084
739	BMW-I.145	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1783
740	BMW-I.146	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Ivory gold	Each	3453
741	BMW-I.147	Supply & fixing Waste coupling 32 mm size full thread with 80 mm heightJaquar make with 7 years warranty: Chrome plated	Each	400
742	BMW-I.148	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Chrome plated	Each	1704
743	BMW-I.149	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Ivory gold	Each	2882
744	BMW-I.150	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty: Chrome plated	Each	419
745	BMW-I.151	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty:Ivory gold	Each	811

746	BMW-I.152	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquarmake queen series with 7 years warranty:Chrome plated	Each	5509
747	BMW-I.153	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquarmake queen series with 7 years warranty: Ivory gold	Each	8666
748	BMW-I.154	Supply & fixing overhead shower rose with revolving joint and 150 mm long swivel shower arm Jaquar make queen series. with 7 years warranty:Chrome plated	Each	2556
749	BMW-I.155	Supply & fixing overhead shower rose with revolving joint and 150 mm long swivel shower arm Jaquar make queen series. with 7 years warranty: Ivory Gold	Each	3745
750	BMW-I.156	Supply and Fixing Wall Mixer with Telephonic shower arrangement with crutch and flexible pipe Jaquar series Ivory gold colour for bath tub. with 7 years warranty	Each	14600
751	BMW-I.157	Supply & fixing Bath tub overflow set complete with over flow cap, 450 mm Ball chain with rubber plug & union bend with brass nut Jaquar make, Ivory gold colour. with 7 years warranty	Each	1778
752	BMW-I.158	Supply & fixing sink cock with regular swinging spout with wall flange chromeplated Jaquar make Queen series with 7 years warranty	Each	2554
753	BMW-I.159	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty:Chrome plated	Each	1676
754	BMW-I.160	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty: Ivory Gold	Each	2460
755	BMW-I.161	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Chrome plated	Each	1350
756	BMW-I.162	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Ivory Gold	Each	2377
757	BMW-I.163	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1269
758	BMW-I.164	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Ivory Gold	Each	2073
759	BMW-I.165	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Chrome plated	Each	944
760	BMW-I.166	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Ivory Gold	Each	1954
761	BMW-I.167	Supply & Fixing of Towel rod 24 " Jaquar make Queen series Ivory gold colour with 7 years warranty	Each	3240
762	BMW-I.168	Supply & Fixing of Tumbler holder Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	2271
763	BMW-I.169	Supply & fixing of Glass shelf 22" Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	4428
764	BMW-I.170	Supply & Fixing of Bibcock cum Health Faucet with 1m long tube and wall hook of Jaquar Continental series, Chrome Finish with 7 years warranty	Each	3213
765	BMW-I.171	Supply & Fixing of Bibcock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	944
766	BMW-I.172	Supply & Fixing of Pillar cock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	1173

767	BMW-I.173	Supply & Fixing of Angular stopcock with wall flange Jaquar Continental series, Chrome finish with 7 years warranty	Each	873
768	BMW-I.174	Supply fixing of Waste coupling Jaquar make, Chrome finish with 7 years warranty	Each	379
769	BMW-I.175	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1704
770	BMW-I.176	Supply & Fixing of copper pipe 450mm long with nuts & washers Jaquar make, Chrome Finish with 7 years warranty	Each	379
771	BMW-I.177	Supply & Fixing of Wall Mixer with provision for overhead shower and 115mm long bend pipe with wall flange Jaquar make Continental series, Chrome finish with 7 years warranty	Each	4126
772	BMW-I.178	Supply & Fixing of Exclusive overhead shower with 190mm long light body shower arm Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1762
773	BMW-I.179	Supply & Fixing wall mixer with telephonic shower arrangement with crutch and telephone shower with flexible tube Jaquar make Continental series Chrome colour for bath tub with 7 years warranty	Each	5761
774	BMW-I.180	Supply & Fixing bath tub over flow set complete with over flow cap,450mm ball chain with rubber plug 7 Union bend with brass nuts Jaquar make, Chrome colour with 7 years warranty	Each	1345
775	BMW-I.181	Supply & Fixing Sink cock with regular swinging spout with flange chrome plated Jaquar make Continental series with 7 years warranty	Each	1660
776	BMW-I.182	Supply & Fixing soap dish Jaquar make Continental series, Chrome Finish with 7 years warranty	Each	1308
777	BMW-I.183	Supply & Fixing of Toilet paper holder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	873
778	BMW-I.184	Supply & Fixing of Towel Ring Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1004
779	BMW-I.185	Supply & Fixing Double coat hook Jaquar make Continental series, Chrome finish with 7 years warranty	Each	750
780	BMW-I.186	Supply & Fixing of towel rail 24" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1621
781	BMW-I.187	Supply & Fixing of Tumblerholder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1093
782	BMW-I.188	Supply & Fixing of Glass shelf 22" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	2149
783	BMW-I.189	Supply & Fixing of Bibcock cum Health Faucet with 1m long tube and wall hook of Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty	Each	3844
784	BMW-I.190	Supply & Fixing of Bibcock Jaquar Florentine (Quarter turn)series, Chrome Finish with 7 years warranty	Each	1296
785	BMW-I.191	Supply & Fixing of Pillar cock Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty	Each	1296
786	BMW-I.192	Supply & Fixing of Angular stopcock with wall flange Jaquar Florentine(Quarter turn)series, Chrome finish with 7 years warranty	Each	1275
787	BMW-I.193	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1704

788	BMW-I.194	Supply & Fixing of Wall Mixer with provision for overhead shower and 115mm long bend pipe with wall flange Jaquar make Florentine(Quarter turn) series, Chrome finish with 7 years warranty	Each	4978
789	BMW-I.195	Supply & Fixing wall mixer with telephonic shower arrangement with crutch and telephone shower with flexible tube Jaquar make Florentine(Quarter turn) series Chrome colour for bath tub with 7 years warranty	Each	7503
790	BMW-I.196	Supply & Fixing Sink cock with regular swinging spout with flange chrome plated Jaquar make Florentine(Quarter turn) series with 7 years warranty	Each	1989
791	BMW-I.197	Supply & Fixing of Rose shower with revolving ball joint & 115mm long shower arm with 7 years warranty	Each	2113
792	BMW-I.198	Supply & Fixing of Jaquar make chrome plated Metro pole flush valveconcealed type with cover plate 40mm size with 7 years warranty	Each	3700
793	BMW-I.199	Supply & Fixing of Jaquar make Sensotronic sensor faucet for wash basin, Chrome plated with 7 years warranty	Each	14532
794	BMW-I.200	Supply & fixing of Jaquar make Sensotronic concealed type flushing valve for urinal complete set with installation box with control cock, Chrome plated with 7 years warranty	Each	14532
795	BMW-I.201	Supply & fixing of Jaquar make Auto closing system pillar cock for wash basin, Chrome plated with 7 years warranty	Each	2408
796	BMW-I.202	Supply& Fixing of Jaquar make Auto Closing system Bibcock, Chrome plated with 7 years warranty	Each	2526
797	BMW-I.203	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 16 mm OD pipe	1 RM	157
798	BMW-I.204	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 20 mm OD pipe	1 RM	195
799	BMW-I.205	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc: 25mm OD pipe	1 RM	244
800	BMW-I.206	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply,	1 RM	328

		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		
801	BMW-I.207	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc: 40 mm OD pipe	1 RM	431
802	BMW-I.208	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc : 50 mm OD pipe	1 RM	548
803	BMW-I.209	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 16 mm OD pipe	1 RM	227
804	BMW-I.210	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 20 mm OD pipe	1 RM	272
805	BMW-I.211	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 25mm OD pipe	1 RM	336
806	BMW-I.212	S&F KITEC 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	1 RM	443

		clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 32 mm OD pipe		
807	BMW-I.213	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 40 mm OD pipe	1 RM	575
808	BMW-I.214	S&F KITEC Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc 50 mm OD pipe	1 RM	726
809	BMW-I.215	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 16 mm OD pipe	1 RM	185
810	BMW-I.216	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 20 mm OD pipe	1 RM	220
811	BMW-I.217	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 25mm OD pipe	1 RM	267
812	BMW-I.218	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	1 RM	345

		excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 32 mm OD pipe		
813	BMW-I.219	S&F Polyethylene-Aluminium-Polyethylene (PE-AL-PE) composite pressure pipes conforming to IS-15450-2004 with UV stabilized, carbon black for hot & cold water supply, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete including excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc 40 mm OD pipe	1 RM	442
		Supply and Fixing of Premium make CPVC Pipes and Fittings to meet the requirement of ASTM-D 2846 and are produced in CTS (Copper Tube Sizes 1/2" to 2" Ashirvad Flowguard SDR 11 and SDR 13.5 pipes are made from identical CPVC compounds having the same physical Properties for Hot and Cold Water (IS 15778:2007)		
814	BMW-I.220	15.90mm ODPipe - SDR 13.5	1 RM	141
815	BMW-I.221	22.20mm ODPipe - SDR 13.5	1 RM	160
816	BMW-I.222	28.60mm ODPipe - SDR 13.5	1 RM	212
817	BMW-I.223	34.90mm ODPipe - SDR 13.5	1 RM	289
818	BMW-I.224	41.30mm ODPipe - SDR 13.5	1 RM	360
819	BMW-I.225	54.00mm ODPipe - SDR 13.5	1 RM	525
820	BMW-I.226	15.90mm ODPipe - SDR 11	1 RM	156
821	BMW-I.227	22.20mm ODPipe - SDR 11	1 RM	189
822	BMW-I.228	28.60mm ODPipe - SDR 11	1 RM	227
823	BMW-I.229	34.90mm ODPipe - SDR 11	1 RM	310
824	BMW-I.230	41.30mm ODPipe - SDR 11	1 RM	383
825	BMW-I.231	54.00mm ODPipe - SDR 11	1 RM	560
826	BMW-I.232	Supply of 20mm x 1.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	48
827	BMW-I.233	Supply of 25mm x 2.3mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	73
828	BMW-I.234	Supply of 32mm x 2.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	115
829	BMW-I.235	Supply of 40mm x 3.7mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	180
830	BMW-I.236	Supply of 50mm x 4.6mm PN 10/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	321
831	BMW-I.237	Supply of 63mm x 5.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	504
832	BMW-I.238	Supply of 75mm x 6.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	702
833	BMW-I.239	Supply of 90mm x 8.2mm PN 10/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	963
834	BMW-I.240	Supply of 110mm x 10mm PN 10/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	1427

835	BMW-I.241	Supply of 20mm x 2.8mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	66
836	BMW-I.242	Supply of 25mm x 3.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	102
837	BMW-I.243	Supply of 32mm x 4.4mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	163
838	BMW-I.244	Supply of 40mm x 5.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	251
839	BMW-I.245	Supply of 50mm x 6.9mm PN 16/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	449
840	BMW-I.246	Supply of 63mm x 8.6mm PN 16/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	707
841	BMW-I.247	Supply of 75mm x 10.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	999
842	BMW-I.248	Supply of 90mm x 12.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	1425
843	BMW-I.249	Supply of 110mm x 15.1mm PN 16/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	2134
844	BMW-I.250	Supply of 20mm x 3.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	77
845	BMW-I.251	Supply of 25mm x 4.2mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	118
846	BMW-I.252	Supply of 32mm x 5.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	190
847	BMW-I.253	Supply of 40mm x 6.7mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	292
848	BMW-I.254	Supply of 50mm x 8.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	519
849	BMW-I.255	Supply of 63mm x 10.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	819
850	BMW-I.256	Supply of 75mm x 12.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	1162
851	BMW-I.257	Supply of 90mm x 15mm PN 20/PPR Pipe conforming to DIN Standards 8077/8083	1 RM	1579
852	BMW-I.258	Supply of 110mm x 18.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	2487
853	BMW-I.259	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	1 RM	11
854	BMW-I.260	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	1 RM	15
855	BMW-I.261	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	1 RM	21
856	BMW-I.262	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	1 RM	36
857	BMW-I.263	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	1 RM	70
858	BMW-I.264	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	1 RM	134

859	BMW-I.265	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	1 RM	204
860	BMW-I.266	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	1 RM	391
861	BMW-I.267	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	1 RM	696
862	BMW-I.268	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	42
863	BMW-I.269	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	67
864	BMW-I.270	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	87
865	BMW-I.271	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	138
866	BMW-I.272	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	161
867	BMW-I.273	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	411
868	BMW-I.274	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	531
869	BMW-I.275	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	18
870	BMW-I.276	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	22
871	BMW-I.277	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	43
872	BMW-I.278	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	75
873	BMW-I.279	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	140
874	BMW-I.280	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	274
875	BMW-I.281	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	443
876	BMW-I.282	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	824
877	BMW-I.283	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	1530
878	BMW-I.284	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	16
879	BMW-I.285	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	28
880	BMW-I.286	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	51
881	BMW-I.287	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	90
882	BMW-I.288	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	160

883	BMW-I.289	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	325
884	BMW-I.290	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	636
885	BMW-I.291	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	922
886	BMW-I.292	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	1598
887	BMW-I.293	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	7
888	BMW-I.294	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	11
889	BMW-I.295	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	21
890	BMW-I.296	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	36
891	BMW-I.297	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	63
892	BMW-I.298	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	134
893	BMW-I.299	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	225
894	BMW-I.300	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	358
895	BMW-I.301	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	708
896	BMW-I.302	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	13
897	BMW-I.303	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	22
898	BMW-I.304	Supply of 32mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	21
899	BMW-I.305	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	37
900	BMW-I.306	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	36
901	BMW-I.307	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	35
902	BMW-I.308	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	54
903	BMW-I.309	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	55
904	BMW-I.310	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	56
905	BMW-I.311	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	57
906	BMW-I.312	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	124

907	BMW-I.313	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	124
908	BMW-I.314	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	125
909	BMW-I.315	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	126
910	BMW-I.316	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	127
911	BMW-I.317	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	184
912	BMW-I.318	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	185
913	BMW-I.319	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	235
914	BMW-I.320	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	449
915	BMW-I.321	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	476
916	BMW-I.322	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	600
917	BMW-I.323	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	698
918	BMW-I.324	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	753
919	BMW-I.325	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	35
920	BMW-I.326	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	61
921	BMW-I.327	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	62
922	BMW-I.328	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	101
923	BMW-I.329	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	103
924	BMW-I.330	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	105
925	BMW-I.331	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	146
926	BMW-I.332	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	148
927	BMW-I.333	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	152
928	BMW-I.334	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	153
929	BMW-I.335	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	423
930	BMW-I.336	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	425

931	BMW-I.337	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	431
932	BMW-I.338	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	438
933	BMW-I.339	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	445
934	BMW-I.340	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	598
935	BMW-I.341	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	607
936	BMW-I.342	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	805
937	BMW-I.343	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	855
938	BMW-I.344	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1459
939	BMW-I.345	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1517
940	BMW-I.346	Supply of 20mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	112
941	BMW-I.347	Supply of 25mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	115
942	BMW-I.348	Supply of 25mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	201
943	BMW-I.349	Supply of 32mm x ½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	205
944	BMW-I.350	Supply of 32mm x ¾" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	212
945	BMW-I.351	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	327
946	BMW-I.352	Supply of 40mm x 1¼" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	484
947	BMW-I.353	Supply of 50mm x 1½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	676
948	BMW-I.354	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	899
949	BMW-I.355	Supply of 75mm x 2½" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1733
950	BMW-I.356	Supply of 20mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	174
951	BMW-I.357	Supply of 25mm x ½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	180
952	BMW-I.358	Supply of 25mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	262
953	BMW-I.359	Supply of 32mm x ¾" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	274
954	BMW-I.360	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	509

955	BMW-I.361	Supply of 40mm x 1¼" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	597
956	BMW-I.362	Supply of 50mm x 1½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	834
957	BMW-I.363	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1283
958	BMW-I.364	Supply of 75mm x 2½" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	2052
959	BMW-I.365	Supply of 20mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	120
960	BMW-I.366	Supply of 25mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	125
961	BMW-I.367	Supply of 25mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	193
962	BMW-I.368	Supply of 32mm x ½" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	185
963	BMW-I.369	Supply of 32mm x ¾" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	216
964	BMW-I.370	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	362
965	BMW-I.371	Supply of 20mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	180
966	BMW-I.372	Supply of 25mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	197
967	BMW-I.373	Supply of 25mm x ¾" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	261
968	BMW-I.374	Supply of 32mm x ½" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	251
969	BMW-I.375	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	541
970	BMW-I.376	Supply of 20mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	116
971	BMW-I.377	Supply of 25mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	127
972	BMW-I.378	Supply of 25mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	212
973	BMW-I.379	Supply of 32mm x ½" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	223
974	BMW-I.380	Supply of 32mm x ¾" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	251
975	BMW-I.381	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	352
976	BMW-I.382	Supply of 20mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	181
977	BMW-I.383	Supply of 25mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	193
978	BMW-I.384	Supply of 25mm x ¾" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	277

979	BMW-I.385	Supply of 32mm x ½" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	283
980	BMW-I.386	Supply of 32mm x¾"PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	299
981	BMW-I.387	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	552
982	BMW-I.388	Supply of 20mm x ½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	466
983	BMW-I.389	Supply of 25mm x¾"PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	698
984	BMW-I.390	Supply of 32mm x1"PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	932
985	BMW-I.391	Supply of 40mm x1¼"PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1306
986	BMW-I.392	Supply of 50mm x 1½" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	2099
987	BMW-I.393	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	3334
988	BMW-I.394	Supply of 20mm x ½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	534
989	BMW-I.395	Supply of 25mm x¾"PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	710
990	BMW-I.396	Supply of 32mm x1"PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	932
991	BMW-I.397	Supply of 40mm x1¼"PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	1165
992	BMW-I.398	Supply of 50mm x 1½" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	2215
993	BMW-I.399	Supply of 63mm x 2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	3732
994	BMW-I.400	Supply of 20mm PPR Union conforming to DIN Standards 8077/8092	Each	102
995	BMW-I.401	Supply of 25mm PPR Union conforming to DIN Standards 8077/8092	Each	119
996	BMW-I.402	Supply of 32mm PPR Union conforming to DIN Standards 8077/8092	Each	196
997	BMW-I.403	Supply of 20mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	186
998	BMW-I.404	Supply of 25mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	245
999	BMW-I.405	Supply of 32mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	257
1000	BMW-I.406	Supply of 40mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	526
1001	BMW-I.407	Supply of 50mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	613
1002	BMW-I.408	Supply of 63mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	992

1003	BMW-I.409	Supply of 75mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1633
1004	BMW-I.410	Supply of 90mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	2333
1005	BMW-I.411	Supply of 20mm PPR Clamp conforming to DIN Standards 8077/8092	Each	11
1006	BMW-I.412	Supply of 25mm PPR Clamp conforming to DIN Standards 8077/8092	Each	14
1007	BMW-I.413	Supply of 32mm PPR Clamp conforming to DIN Standards 8077/8092	Each	16
1008	BMW-I.414	Supply of 40mm PPR Clamp conforming to DIN Standards 8077/8092	Each	18
1009	BMW-I.415	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - up to 40 mm dia	1 RM	31
1010	BMW-I.416	Labour charges for laying, joining, welding, fixing and commissioning the PPR pipes including all specials such as couplers/ bends/ tees etc including fixing necessary fittings like bends, plugs, couplers, junctions, tees, etc with welding the joint as per standard practice - above 40 mm dia	1 RM	53
NOTE				
1	All the items to be used on work are of first quality & ISI and as approved by the Engineer In charge of the work.			
2	Rates given above are:			
	a) Ratefor finished item of work			
	b) Labour charges only			
3	RATES			
	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 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.			
	LEGEND			
	"BMW" -X.XX	"BMW" for Water Supply & Sanitary items		
	XXX-"A".XX	"A" for Name of the Section		
	XXX-X."01"	"01" for Serial Number of the Item		

WATER SUPPLY & SANITARY ITEMS

LIST OF Brands / MANUFACTURERS / SUPPLIERS OF WATER SUPPLY AND SANITARY ITEMS

Sl. No	SECTION	NAMES OF THE ITEMS	NAMES OF THE BRAND / MANUFACTURER/ SUPPLIER
1	SECTION – C	C.I. PIPES & FITTINGS -AS PER - IS 1729:1979	B.I.C., NECO or equivalent
2	SECTION – D	VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 – 1974	Hindustan Sanitary ware/ Parryware/ Neycer/ CERA / Jaquar/kerovit –kajaria/ H&R Johnson
3	SECTION – E	TAPS & FAUCETS	Seiko/ Senior/ Nice/ CERA/ Hindware – PREMIUM MAKE - Jaquar/ Hindware/ Plumber/ Parryware/ H & R Johnson /Swastika enterprises
4	SECTION – F	G.I. PIPES & FITTINGS	Pipes -Tata, Sail, Zenith: Fittings - HB : Valves – Zoloto, Sant valves/ JSW/ Oswal
5	SECTION – G	PVC PIPES & FITTINGS	Sintex for PVC tanks,Pipes and Fittings – Prince/ Finolex / Sudhakar/Kisan/Supreme or any ISI Brand, LLC Tanks - Parry ware, Slim line, CERA/ UNIFLEX / ASTRAL UPVC & CPVC pipes.
6	SECTION – H	CENTRIFUGAL CAST IRON PIPES & FITTINGS AS PER IS: 3989 – 1984	B.I.C., NECO - ISI brand
7	SECTION – I	MISCELLANEOUS	Special Taps and CP Fittings - Jaquar / Jupiter Aqua Lines-JAL/ CERA/ SFMC PPR & PVC Pipes, Harshavardhan international / supreme, ASTRAL UPVC & CPVC pipes/Ashirvad, Prince, Kisan.
<p>Note: 1) All Building Materials conforming to ISI Standards shall be used in all CIVIL, Water Supply & Sanitary Fittings and Electrical Works.</p> <p>2) Not only limiting to the Brand / Manufacturer / Supplier for Materials/Products mentioned above, Material / Product conforming to the Specification and Standards of ISI from any Brand / Manufacturer, shall also be allowed in all CIVIL, Water Supply & Sanitary Fittings and Electrical Works also.</p>			

AMENDMENT TO BUILDINGS STANDARD DATA

COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)

Office of the Engineer-in-Chief (R&B), Buildings, R&B Department, Errummanzil, Hyderabad

Procs. No. ENC(B)/DEE-1/AEE1/DATA:2016-17

Dt: 26.10.2016.

Sub: -Committee of the Chief Engineers (Buildings SoR) - Adoption of Revision and Updating of Andhra Pradesh Standard data in all Engineering/Public Works Department and other organisations – A.P. Revised Standard Data – Part-III for Buildings & Electrical Items - Corrigendum issued – Reg.,

Ref: - 1. G.O.Ms.No.49 I&CAD(PW-Reforms) Dept., dt:02-03-2009
2) Letter from Builders Association of India Dt.23.05.2016

* * * * *

In continuation of the proceedings issued earlier for amendments to the A.P. Standard Data for Buildings & Electrical items in Part-III of the AP Revised Standard Data book, the following amendment is hereby issued to modify the labour coefficients in the data of certain items in Plastering section of the AP Revised Standard Data book:

2) CIVIL WORKS

Item Codes BLD-CSTN-6-1 to BLD-CSTN-6-8 in Plastering Section in A.P. Standard Data for Buildings & Electrical items in Part-III of the AP Revised Standard Data book is modified as follows:

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amount Rs.	Remarks
	1	2	3	4	5	6	7
BLD-CSTN-6		PLASTERING					
BLD-CSTN-6-1	53	Plastering with CM (1:3), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:3)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-2	54	Plastering with CM (1:4), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-3	55	Plastering with CM (1:5), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amount Rs.	Remarks
	1	2	3	4	5	6	7
		Cement Mortar (1:5)	cum	0.150			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-4	56	Plastering with CM (1:6), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:6)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-5	57	Plastering with CM (1:8), 12 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:5)	cum	0.15			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-6	58	Plastering with CM (1:4), 15 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.19			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-7	59	Plastering with CM (1:4), 20 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:4)	cum	0.210			
		B. LABOUR:					
		Mason 1 st class	day	0.45			

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amount Rs.	Remarks
	1	2	3	4	5	6	7
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
BLD-CSTN-6-8	60	Plastering with CM (1:3), 20 mm thick					
		Unit = 10 sqm					
		A. MATERIALS:					
		Cement Mortar (1:3)	cum	0.210			
		B. LABOUR:					
		Mason 1 st class	day	0.45			
		Mason 2 nd class	day	1.05			
		Mazdoor (unskilled)	day	2.80			
		Grand Total					
		Note : When Mortar mix is changed proportionate quantity of cement has to be substituted					

3) Any errors, omissions, corrections or suggestions shall be brought to the notice of the 'COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)' for corrective action.

4) Any suggestions or modifications in the specifications or rates of the Buildings Schedule of Rates: 2016-17 shall be brought to the notice of the under signed.

5) The Heads of Departments mentioned below are requested to communicate the correction to their subordinate officers.

6) The above changes come into force with effect from 01.06.2016 and shall be applicable for all ongoing and future works of all Engineering Departments.

7) The receipt of the proceedings may please be acknowledged.

Sd/- 26.10.2016
M. GANGADHARAM
Engineer-In- Chief (R&B) Buildings,
Convener-Member,
Committee of Chief Engineers-Buildings-SoR

To

1. Engineer-in-Chief (Admn., SR, RSW & Buildings), Roads & Buildings Department, Errummanzil, Hyderabad-82.
2. Chief Engineer (R&B) (Electrical), R&B Department, Errummanzil, Hyderabad-82
3. Engineer-in-Chief, Public Health Department, A,C, Guards, Hyderabad-4.
4. Engineer-in-Chief (P.R.), Panchayat Raj Department, Errummanzil, Hyderabad-82.
5. Engineer-in-Chief, Tribal Welfare & Social Welfare Department, DSS Bhavan, Masab tank, Hyderabad.
6. Chief Engineer (Civil), Tirupathi Tirumala Devasthanams, Tirupati
7. Chief Engineer (AP Housing Board) Gruhakalpa, Nampally, Hyderabad
8. Chief Engineer (Housing Corporation) Urdugally, Himayatnagar, Hyderabad
9. Chief Engineer (APSRTC), RTC 'X' Roads, Musheerabad, Hyderabad.
10. Chief Engineer (APMSIDC), Ilrd Floor, DM&HS Campus, Sultanbazar, Koti, Hyderabad.
11. Chief Engineer (AP Police Housing & Welfare Corporation), Lakdi-ka-pool, Hyderabad.
12. Chief Engineer Vijayawada Municipal Corporation, Vijayawada

Electrical Items - Buildings-SoR-2016-17

SL. NO.	INDEX	PAGE NOS	
		FROM	TO
	Index	187	189
	Preamble	190	190
	SECTION - 1		
1.1	M.S.CONDUIT PIPES	191	193
1.2	PVC CONDUIT PIPES	193	196
1.3	HOT DIP GALVANISED METAL BOXES	196	196
1.4	T.W. BOARDS	196	197
1.5	COPPER FLEXIBLE CABLES	197	201
1.6	SERVICE MAINS AND FLAT CABLES OF ISI FOR SUBMERSIBLE MOTORS.	201	203
1.7	FLUSH TYPE SWITCHES AND ACCESSORIES	203	206
1.8	MODULAR SWITCHES AND ACCESSORIES	206	210
	SECTION - 2		
2.1	PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS	210	211
2.2	ON LOAD CHANGE OVER SWITCHES. (OPEN EXECUTION)	211	212
2.3	CHANGE OVER SWITCHES IN SS ENCLOSURE	212	212
2.4	REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE	212	213
2.5	HRC FUSE LINKS (BOLTED TYPE)	213	214
2.6	PORCELAIN REWIRABLE FUSE UNITS.	214	214
2.7	VOLTAGE SURGE PROTECTORS	214	214
2.8	PANEL MOUNTING MCCBs/ ACBs	215	219
2.9	MCBs	219	220
2.10	ISOLATORS	220	221
2.11	RCCBs	221	222
2.12	MCB DISTRIBUTION BOARDS	222	229
	SECTION - 3		
3.1	STREET LIGHT LUMINAIRES	229	231
3.2	POST TOP LANTERN LUMINAIRES	231	232
3.3	ACCESSORIES FOR MV / SV / MH LUMINAIRES I.E., COPPER BALLASTS, ENERGY SAVING ELECTRONIC BALLAST FOR STREET LIGHT, CAPACITORS, IGNITORS	232	233
3.4	LAMPS	233	235
3.5	NATURE SWITCHES	235	236
3.6	INTERNAL LUMINAIRES	236	239

3.7	FLOURSCENT / CFL LAMPS	239	242
3.8	ENERGY CONSERVING FIXTURES	242	243
3.9	LED AND INDUCTION LUMINAIRES	243	255
	SECTION - 4		
4.1	U.G. CABLES, 11 KV H. T. XLPE CABLES	256	261
4.2	CABLE GLANDS	261	261
4.3	LUGS	261	263
4.4	CABLE JOINTS OF HEAT SHRINKABLE LT 3 CORE 11 KV HT CABLE STRAIGHT THROUGH JOINTS HT END TERMINATION KITS.	263	265
4.5	DOUBLE WALLED CORRUGATED HDPE PIPE	265	266
4.6	CABLE TRAYS	266	266
	SECTION - 5		
5.1	CEILING AND EXHAUST FANS	266	268
5.2	WATER HEATERS	268	268
5.3	ACCESSORIES FOR WATER HEATERS	268	268
5.4	ACCESSORIES OF MOTORS, SUPPLY OF MOTORS, CONTROL PANEL BOARD FOR MOTORS,	268	277
5.5	REPAIRS TO AIR CONDITIONERS, SPLIT, CASSETTE AND TOWER MODEL AIR CONDITIONERS, STABILIZERS	277	284
5.6	REPAIRS TO MOTORS AND REWINDING, BEARINGS	284	284
	SECTION - 6		
6.1	SWAGED, OCTOGONAL AND GRP POLES AND ACCESSORIES.	284	291
6.2	CONTROL PANEL	291	291
6.3	METERING EQUIPMENT	291	292
6.4	SUBSTATION EQUIPMENT	292	297
6.5	L T LINES ACCESSORIES AND POLES	297	298
6.6	LIGHTENING PROTECTIVE SYSTEM	298	299
	SECTION - 7		
7.1	NET WORKING	299	301
	SECTION - 8		
8.1	MISCELLANEOUS ITEMS	301	305
	SECTION - 9		
9.1	WIRELESS FIRE ALARM SYSTEM	305	306
9.2	ADDRESSABLE - FIRE ALARM SYSTEM	306	314

9.3	CONVENTIONAL - FIRE ALARAM SYSTEM	314	315
9.4	FIRE EXTINGUISHERS	315	323
9.5	FIRE HYDRANT AND SPRINKLER SYSTEM	325	336
	SECTION - 10		
10.1	GENERATORS	336	340
	SECTION - 11		
11.1	U P S SYSTEMS	340	342

PREAMBLE TO ELECTRICAL SOR 2016 - 2017

1. The area allowances in case of Corporation, Municipalities, Jail Compounds, Agency & Tribal areas and Industrial areas have to be followed as per prevailing Common SOR.
2. The Electrical contractor is solely responsible for both quality and quantity. Proposing specific make in the estimate from the SOR is within the scope of concerned field officers based on the necessity and availability of materials in such areas.
3. In case of 2way points i.e. stair case point etc where two way switch control is necessary, an extra at 50 % excess over each point shall be allowed.
4. Where ever the light/fan point is provided at a height/length of 15 feet and above, then an extra of 50% over the point rates shall be allowed.
5. The rates for common civil items including labour rates have to be adopted from prevailing SOR.
6. The rates for all types of electrical items proposed are inclusive of all taxes such as Sales Tax, Excise duty etc.
7. The Government instructions for usage of Energy efficient luminaries have to be invariably followed while proposing luminaries in the estimates.
8. The rates for items such as Lifts, Refrigerators / A.C. plants / Water coolers and Video and Audio Systems etc., have to be invariably followed based on the prevailing market rates, since the rates and specification varies from manufacturer to manufacturer considerably. Hence , rates for these items are not incorporated in the schedule. However, relevant data without rates is provided in the standard schedule data for electrical works. .
9. In case of any addition to the proposed SOR, the approval has to be obtained from the Building SOR Committee of Chief Engineers through the R&B Electrical wing. Approvals of makes which are under relevant specifications of the BIS / ISO / ISI can be given by the Superintending Engineer (R&B) Electrical, duly obtaining approval from the Chief Engineer (R&B) Electrical.
10. The Superintending Engineer (R&B) Electrical will review the performance over the quality of the makes proposed in the SOR from time to time and in case any inferior quality is observed the same shall be brought to the notice of the Chief Engineer (R&B) Electrical to consider for deletion from the SOR.
11. The schedule of rates is only for guidance of officers for preparation of estimates as per the Para 113 of APPWD code. The authority that sanctioned the estimate is however responsible for adopting the proper rates in the estimates as envisaged in para 45 of APPWD code.
12. As per GO Ms No.51 Industries and commerce (MSME) Dept Dt:01.06.2010, all the indenting departments / Agents should invariably give preference to all local MSME which are manufacturing quality products having ISO 9001 – 2000, DGS & D, BIS certification without entertaining any other dealers / branded product manufacturers who have no production base in the state.

SL. NO.	ITEM CODE	DESCRIPTION OF ITEM	Unit	RATE for SoR 2016-17
	2	3	4	5
		SECTION – 1		
	1.1	M.S. CONDUIT PIPES		
1	ELEC-1.1.1	Supply of ISI, 20mm outer dia, 16 guage thickness MS conduit pipe of Makes: NAI / Bharath / GB / AKG.	1 RM	85
2	ELEC-1.1.2	Supply of ISI, 25mm outer dia, 16 guage thickness MS conduit pipe of Makes: NAI / Bharath / GB / AKG.	1 RM	100
3	ELEC-1.1.3	Supply of ISI, 32mm outer dia, 16 guage thickness MS conduit pipe. Makes: NAI / Bharath / GB / AKG.	1 RM	150
4	ELEC-1.1.4	Supply of ISI, 38mm outer dia, 16 guage thickness MS conduit pipe Makes: NAI / Bharath / GB / AKG.	1 RM	250
5	ELEC-1.1.5	Supply of ISI, 50mm outer dia, 16 guage thickness MS conduit pipe Makes: NAI / Bharath / GB / AKG.	1 RM	350
6	ELEC-1.1.6	Supply of 19 / 20 mm MS Junction box normal range big size long neck.	1 No	27
7	ELEC-1.1.7	Supply of 25 mm MS Junction box normal range big size long neck.	1 No	30
8	ELEC-1.1.8	Supply of 32 mm MS Junction box normal range big size long neck.	1 No	75
9	ELEC-1.1.9	Supply of 40 / 38 mm MS Junction box normal range big size long neck.	1 No	90
10	ELEC-1.1.10	Supply of 50 mm MS Junction box normal range big size long neck.	1 No	165
11	ELEC-1.1.11	Supply of 25/20mm.MS Junction deep box.	1 No	50
12	ELEC-1.1.12	Supply of 32mm.MS Junction deep box.	1 No	120
13	ELEC-1.1.13	Supply of 40mm.MS Junction deep box.	1 No	125
14	ELEC-1.1.14	Supply of 19/20mm MS Inspection Bends.	1 No	23.40
15	ELEC-1.1.15	Supply of 25mm MS Inspection Bends.	1 No	25.80
16	ELEC-1.1.16	Supply of 32mm MS Inspection Bends.	1 No	58
17	ELEC-1.1.17	Supply of 40/38mm MS Inspection Bends.	1 No	90
18	ELEC-1.1.18	Supply of 50mm MS Inspection Bends.	1 No	150
19	ELEC-1.1.19	Supply of 19/20mm MS Inspection Tee.	1 No	28

20	ELEC-1.1.20	Supply of 25mm MS Inspection Tee.	1 No	32
21	ELEC-1.1.21	Supply of 32mm MS Inspection Tee.	1 No	78
22	ELEC-1.1.22	Supply of 40/38mm MS Inspection Tee.	1 No	94
23	ELEC-1.1.23	Supply of 50mm MS Inspection Tee.	1 No	175
24	ELEC-1.1.24	Supply of 19/20mm MS Inspection Elbow.	1 No	25
25	ELEC-1.1.25	Supply of 25mm MS Inspection Elbow.	1 No	26
26	ELEC-1.1.26	Supply of 32mm MS Inspection Elbow.	1 No	60
27	ELEC-1.1.27	Supply of 40/38mm MS Inspection Elbow.	1 No	75
28	ELEC-1.1.28	Supply of 50mm MS Inspection Elbow.	1 No	140
29	ELEC-1.1.29	Supply of MS Inspection 10 Gauge G.I. checknut size 19/20mm.	100 Nos	217
30	ELEC-1.1.30	Supply of MS Inspection 10 Gauge G.I. checknut size 25mm.	100 Nos	276
31	ELEC-1.1.31	Supply of MS Inspection 10 Gauge G.I. checknut size 32mm.	100 Nos	560
32	ELEC-1.1.32	Supply of MS Inspection 10 Gauge G.I. checknut size 40/38mm.	100 Nos	775
33	ELEC-1.1.33	Supply of MS Inspection 10 Gauge G.I. checknut size 50mm.	100 Nos	1350
34	ELEC-1.1.34	Supply of 19/20mm Saddles with Base.	100 Nos	240
35	ELEC-1.1.35	Supply of 25mm Saddles with Base.	100 Nos	250
36	ELEC-1.1.36	Supply of 32mm Saddles with Base.	100 Nos	425
37	ELEC-1.1.37	Supply of 40/38mm Saddles with Base.	100 Nos	570
38	ELEC-1.1.38	Supply of 50mm Saddles with Base.	100 Nos	625
39	ELEC-1.1.39	Supply of 19/20mm 20 gauge Saddles.	100 Nos	120
40	ELEC-1.1.40	Supply of 25mm 20 gauge Saddles.	100 Nos	170
41	ELEC-1.1.41	Supply of 32mm 20 gauge Saddles.	100 Nos	270
42	ELEC-1.1.42	Supply of 40/38mm 20 gauge Saddles.	100 Nos	350
43	ELEC-1.1.43	Supply of 50mm 20 gauge Saddles.	100 Nos	420
44	ELEC-1.1.44	Supply of 19/20mm 16 Gauge socket coupler.	12 Nos	75
45	ELEC-1.1.45	Supply of 25mm 16 Gauge socket coupler.	12 Nos	90
46	ELEC-1.1.46	Supply of 32mm 16 Gauge socket coupler.	12 Nos	140
47	ELEC-1.1.47	Supply of 38mm 16 Gauge socket coupler.	12 Nos	190
48	ELEC-1.1.48	Supply of 40mm 16 Gauge socket coupler.	12 Nos	200

49	ELEC-1.1.49	Supply of 50mm 16 Gauge socket coupler.	12 Nos	400
50	ELEC-1.1.50	Supply of 19mm Ball Socket.	12 Nos	250
51	ELEC-1.1.51	Supply of 25mm Ball Socket.	12 Nos	275
	1.2	PVC CONDUIT PIPES		
52	ELEC-1.2.1	Supply of ISI 20mm outer dia medium (1.55mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	20
53	ELEC-1.2.2	Supply of ISI 20mm outer dia heavy (2.10mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	25
54	ELEC-1.2.3	Supply of ISI 25mm outer dia medium (1.80mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	28
55	ELEC-1.2.4	Supply of ISI 25mm outer dia heavy (2.20mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline(SOR 16-17, Elec - 1.2.4)	1 RM	32
56	ELEC-1.2.5	Supply of ISI 32mm outer dia medium (2.10mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	41
57	ELEC-1.2.6	Supply of ISI 40mm outer dia medium (2.30mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	56
58	ELEC-1.2.7	Supply of ISI 50mm outer dia medium (2.85mm thickness) grade with IS:9537 part 3 regid PVC pipe. Makes : VIP / Besto plast / GoldMedal / Million plast / GM / Sudhakar / Polyline	1 RM	82
59	ELEC-1.2.8	Supply of Non - ISI 19mm 1.50mm thick regid PVC pipe. Makes: Million Plast / Sudhakar / Durga / Nandi / Besto Plast/ Polyline.(SOR 16-17, Elec - 1.2.8)	1 RM	14
60	ELEC-1.2.9	Supply of Non - ISI 19mm 1.80mm thick regid PVC pipe. Makes: Million Plast / Sudhakar / Durga / Nandi / Besto Plast/ Polyline.	1 RM	19
61	ELEC-1.2.10	Supply of Non - ISI 25mm 1.50mm thick regid PVC pipe. Makes: Million Plast / Sudhakar / Durga / Nandi / Besto Plast/ Polyline.	1 RM	19
62	ELEC-1.2.11	Supply of Non - ISI 25mm 1.80mm thick regid PVC pipe. Makes: Million Plast / Sudhakar / Durga / Nandi / Besto Plast/ Polyline.	1 RM	25

		SOR 2015-2016 Deleted ELEC-1.2.12		Deleted
		SOR 2015-2016 Deleted ELEC-1.2.13		Deleted
		SOR 2015-2016 Deleted ELEC-1.2.14		Deleted
63	ELEC-1.2.12	Supply of ISI 19/20mm width and 12.5mm height Casing and Caping. Makes: Any ISI make.	1 RM	26
64	ELEC-1.2.13	Supply of ISI 25mm width and 12.5mm height Casing and Caping. Makes: Any ISI make.	1 RM	32
65	ELEC-1.2.14	Supply of ISI 32mm width and 12.5mm height Casing and Caping. Makes: Any ISI make.	1 RM	37
66	ELEC-1.2.15	Supply of ISI 38/40mm width and 12.5mm height Casing and Caping. Makes: Any ISI make.	1 RM	64
		SOR 2015-2016 Deleted ELEC-1.2.19		Deleted
		SOR 2015-2016 Deleted ELEC-1.2.20		Deleted
		SOR 2015-2016 Deleted ELEC-1.2.21		Deleted
		SOR 2015-2016 Deleted ELEC-1.2.22		Deleted
67	ELEC-1.2.16	Supply of 19/20mm PVC Flexible Pipe. Make: GoldMedal / Million plast / GM / Sudhakar / Besto plast / Polyline	1 RM	4
68	ELEC-1.2.17	Supply of 25mm PVC Flexible Pipe. Make: GoldMedal / Million plast / GM / Sudhakar / Besto plast / Polyline	1 RM	5
69	ELEC-1.2.18	Supply of 32mm PVC Flexible Pipe. Make: GoldMedal / Million plast / GM / Sudhakar / Besto plast / Polyline	1 RM	7
70	ELEC-1.2.19	Supply of 40/38mm PVC Flexible Pipe. Make: GoldMedal / Million plast / GM / Sudhakar / Besto plast / Polyline	1 RM	13
71	ELEC-1.2.20	Supply of 50mm PVC Flexible Pipe. Make: GoldMedal / Million plast / GM / Sudhakar / Besto plast / Polyline	1 RM	20
72	ELEC-1.2.21	Supply of 19/20mm PVC Flexible Couplings.	1 No	11
73	ELEC-1.2.22	Supply of 25mm PVC Flexible Couplings.	1 No	14
74	ELEC-1.2.23	Supply of 32mm PVC Flexible Couplings.	1 No	28
75	ELEC-1.2.24	Supply of 40/38mm PVC Flexible Couplings.	1 No	30

76	ELEC-1.2.25	Supply of 50mm PVC Flexible Couplings.	1 No	61
77	ELEC-1.2.26	Supply of 19/20mm PVC Junction Boxes Normal. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	17
78	ELEC-1.2.27	Supply of 25mm PVC Junction Boxes Normal. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	19
79	ELEC-1.2.28	Supply of 32mm PVC Junction Boxes Normal. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	34
80	ELEC-1.2.29	Supply of 40mm PVC Junction Boxes Normal. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	37
81	ELEC-1.2.30	Supply of 50mm PVC Junction Boxes Normal. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	51
82	ELEC-1.2.31	Supply of PVC Junction Boxes Deep size 19/20mm. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	22
83	ELEC-1.2.32	Supply of PVC Junction Boxes Deep size 25mm. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	25
84	ELEC-1.2.33	Supply of PVC Junction Boxes Deep size 32mm. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	40
85	ELEC-1.2.34	Supply of PVC Junction Boxes Deep size 40/38mm. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	43
86	ELEC-1.2.35	Supply of PVC Junction Boxes Deep size 50mm. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline	1 No	64
87	ELEC-1.2.36	Supply of 19/20mm dia 1.5mm thick PVC Bends. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline.	1 No	4
88	ELEC-1.2.37	Supply of 25mm dia 1.5mm thick PVC Bends. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline.	1 No	6
89	ELEC-1.2.38	Supply of 32mm dia 2.0mm thick PVC Bends. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline.	1 No	16
90	ELEC-1.2.39	Supply of 40mm dia 2.0mm thick PVC Bends. Make : GoldMedal / Millionplast / GM / Sudhakar / Besto plast / Polyline.	1 No	19

91	ELEC-1.2.40	Supply of 50mm dia 2.0mm thick PVC Bends. Make : GoldMedal / Millionplast / GM / Sudhakar / Bestoplast / Polyline.	1 No	28
92	ELEC-1.2.41	Dummy Cover to PVC junction boxes	1 No	4
	1.3	HOT DIP GALVANIZED METAL BOXES (MODULAR)		
93	ELEC-1.3.1	Supply of 1 or 2 Module box	1 No	60
94	ELEC-1.3.2	Supply of 3 Module box	1 No	84
95	ELEC-1.3.3	Supply of 4 Module box	1 No	101
96	ELEC-1.3.4	Supply of 6 Module box	1 No	137
97	ELEC-1.3.5	Supply of 8 or 9 Module box Horizontal/Vertical.	1 No	179
98	ELEC-1.3.6	Supply of 12 Module box	1 No	219
		METALLIC BOXES (MS)		
94	ELEC-1.3.7	Supply of 4" x 4" Metal Box	1 No	53
95	ELEC-1.3.8	Supply of 4" x 7" Metal Box	1 No	63
96	ELEC-1.3.9	Supply of 6" x 6" Metal Box	1 No	79
97	ELEC-1.3.10	Supply of 6" x 8" Metal Box	1 No	105
98	ELEC-1.3.11	Supply of 10" x 8" Metal Box	1 No	184
99	ELEC-1.3.12	Supply of 10" x 12" Metal Box	1 No	236
	1.4	T.W. BOARDS		
95	ELEC-1.4.1	Supply of T.W.Deep Box of Size 4" x 4"	1 No	12
96	ELEC-1.4.2	Supply of T.W.Deep Box of Size 4" x 7"	1 No	19
97	ELEC-1.4.3	Supply of T.W.Deep Box of Size 6" x 6"	1 No	24
98	ELEC-1.4.4	Supply of T.W.Deep Box of Size 6" x 8"	1 No	30
99	ELEC-1.4.5	Supply of T.W.Deep Box of Size 8" x 10"	1 No	48
100	ELEC-1.4.6	Supply of T.W.Deep Box of Size 10" x 12"	1 No	73
101	ELEC-1.4.7	Supply of T.W.Deep Box of Size 12" x 15"	1 No	109
102	ELEC-1.4.8	Supply of Decolam Board of Size 4" x 4"	1 No	14
103	ELEC-1.4.9	Supply of Decolam Board of Size 4" x 7"	1 No	25
104	ELEC-1.4.10	Supply of Decolam Board of Size 6" x 6"	1 No	33
105	ELEC-1.4.11	Supply of Decolam Board of Size 6" x 8"	1 No	44
106	ELEC-1.4.12	Supply of Decolam Board of Size 8" x 10"	1 No	73
107	ELEC-1.4.13	Supply of Decolam Board of Size 10" x 12"	1 No	109

108	ELEC-1.4.14	Supply of Decolam Board of Size 12" x 15"	1 No	164
109	ELEC-1.4.15	Supply of Peeta Board of Size 9" x 14"	1 No	53
110	ELEC-1.4.16	Supply of Peeta Board of Size 12" x 10"	1 No	51
111	ELEC-1.4.17	Supply of Peeta Board of Size 15" x 20"	1 No	182
112	ELEC-1.4.18	Supply of Peeta Board of Size 18" x 24"	1 No	262
113	ELEC-1.4.19	Supply of Peeta Board of Size 18" x 30"	1 No	327
114	ELEC-1.4.20	Supply of No.8 Screws of 12mm.	100 Nos	59
115	ELEC-1.4.21	Supply of No.8 Screws of 25mm.	100 Nos	72
116	ELEC-1.4.22	Supply of No.8 Screws of 30mm.	100 Nos	89
117	ELEC-1.4.23	Supply of No.8 Screws of 35/38mm.	100 Nos	96
118	ELEC-1.4.24	Supply of No.8 Screws of 50mm.	100 Nos	108
119	ELEC-1.4.25	Supply of No.8 Screws of 63/75mm.	100 Nos	131
	1.5	COPPER FLEXIBLE CABLES (AS PER IS:694)		
120	ELEC-1.5.1	Supply of 14/0.3mm (1.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	1051
121	ELEC-1.5.2	Supply of 22/0.3mm (1.5 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	1555
122	ELEC-1.5.3	Supply of 36/0.3mm (2.5 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / APAR E-beam 1.5.3)	100 RM	2510
123	ELEC-1.5.4	Supply of 56/0.3mm (4.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	3833
124	ELEC-1.5.5	Supply of 84/0.3mm (6.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	5828
125	ELEC-1.5.6	Supply of 140/0.3mm (10.0 Sqmm) PVC FRLS / HFFR / ZHFR insulated flexible Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	9030
126	ELEC-1.5.7	Supply of 126/0.4mm (16.0 Sqmm) PVC FRLS / HFFR / ZHFR insulated flexible Copper cable. Makes: Finolex / RR kabel / APAR E-beam	100 RM	14280

127	ELEC-1.5.8	Supply of 14/0.3mm (1.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Nakoda / Fortune Art / Gloster / Fybros Kundan cab/Orbit..	100 RM	924
128	ELEC-1.5.9	Supply of 22/0.3mm (1.5 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Nakoda / Fortune Art / Gloster / Fybros Kundan cab/Orbit.	100 RM	1358
129	ELEC-1.5.10	Supply of 36/0.3mm (2.5 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Nakoda / Fortune Art / Gloster / Fybros Kundan cab/Orbit.	100 RM	2195
130	ELEC-1.5.11	Supply of 56/0.3mm (4.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Nakoda / Fortune Art / Gloster / Fybros Kundan cab/Orbit.	100 RM	3360
131	ELEC-1.5.12	Supply of 84/0.3mm (6.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Nakoda / Fortune Art / Gloster / Fybros Kundan cab/Orbit..	100 RM	5250
132	ELEC-1.5.13	Supply of 140/0.3mm (10.0 Sqmm) FRLS / HFFR / ZHFR PVC insulated flexible Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Fybros by Kundan cab / Fortune Art / Gloster / Orbit.	100 RM	7980
133	ELEC-1.5.14	Supply of 126/0.4mm (16.0 Sqmm) PVC FRLS / HFFR / ZHFR insulated flexible Copper cable. Makes: Havells / KEI / Polycab / Bonton / V-Guard / GM / Million / HPL / Goldmedal / Finecab / Vimal / Fybros by Kundan cab / Fortune Art / Gloster / Orbit.	100 RM	13230
134	ELEC-1.5.15	Supply of 14/0.3mm (1.0 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	797
135	ELEC-1.5.16	Supply of 22/0.3mm (1.5 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab /	100 RM	1150

		Gemini		
136	ELEC-1.5.17	Supply of 36/0.3mm (2.5 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	1856
137	ELEC-1.5.18	Supply of 56/0.3mm (4.0 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	2783
138	ELEC-1.5.19	Supply of 84/0.3mm (6.0 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	4305
139	ELEC-1.5.20	Supply of 140/0.3mm (10.0 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	6825
140	ELEC-1.5.21	Supply of 126/0.4mm (16.0 Sqmm) FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Standard / Nandicab / Star / Benlo / Gemscab / Gemini	100 RM	10500
		SHEATHED FLEXIBLE CABLES		
141	ELEC-1.5.22	Supply of PVC insulated 2 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	4190
142	ELEC-1.5.23	Supply of PVC insulated 2 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	6683
143	ELEC-1.5.24	Supply of PVC insulated 2 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	10274
144	ELEC-1.5.25	Supply of PVC insulated 3 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	5736
145	ELEC-1.5.26	Supply of PVC insulated 3 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	9227

146	ELEC-1.5.27	Supply of PVC insulated 3 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	14065
147	ELEC-1.5.28	Supply of PVC insulated 4 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	7392
148	ELEC-1.5.29	Supply of PVC insulated 4 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	11771
149	ELEC-1.5.30	Supply of PVC insulated 4 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR Kable / APAR E-beam.	100 RM	17915
150	ELEC-1.5.31	Supply of PVC insulated 2 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	3352
151	ELEC-1.5.32	Supply of PVC insulated 2 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	5346
152	ELEC-1.5.33	Supply of PVC insulated 2 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	8219
153	ELEC-1.5.34	Supply of PVC insulated 3 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit..	100 RM	4589
154	ELEC-1.5.35	Supply of PVC insulated 3 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	7382

155	ELEC-1.5.36	Supply of PVC insulated 3 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	11252
156	ELEC-1.5.37	Supply of PVC insulated 4 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	5914
157	ELEC-1.5.38	Supply of PVC insulated 4 core 2.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	9417
158	ELEC-1.5.39	Supply of PVC insulated 4 core 4.0 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. Makes : Havells / KEI / Polycab / V-Guard / Finecab / Vimal / Million / Nakoda / Gold Medal / Bonton / Nandicab / Fybros Kundan cab/Orbit.	100 RM	14332
	1.6	SERVICE MAINS AND FLAT CABLE OF ISI FOR SUBMERSIBLE MOTORS.		
159	ELEC-1.6.1	Supply of 2.5 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	737
160	ELEC-1.6.2	Supply of 6 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	1497
161	ELEC-1.6.3	Supply of 10 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	1611
162	ELEC-1.6.4	Supply of 16 Sqmm WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	2693
163	ELEC-1.6.5	Supply of 6 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	3017

164	ELEC-1.6.6	Supply of 10 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Nanadicab / Payal / Fybros by Kundan cab.	100 RM	3629
165	ELEC-1.6.7	Supply of 16 Sqmm WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finecab / Nakoda / Payal / Fybros by Kundan cab.	100 RM	6804
166	ELEC-1.6.8	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Fybros by Kundan cab.	100 RM	1040
167	ELEC-1.6.9	Supply of 3 Core 1.5 Sqmm Flat Copper cable of ISI for Submersible Motors. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Nakoda / Nandicab / Payal / Fybros by Kundan cab.	100 RM	5717
168	ELEC-1.6.10	Supply of 3 Core 2.5 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Nakoda / Nandicab / Payal / Fybros by Kundan cab.	100 RM	8778
169	ELEC-1.6.11	Supply of 3 Core 4.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Nakoda / Nandicab / Payal / Fybros by Kundan cab.	100 RM	13167
170	ELEC-1.6.12	Supply of 3 Core 6.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Nakoda / Nandicab / Payal / Fybros by Kundan cab.	100 RM	19404
171	ELEC-1.6.13	Supply of 3 Core 10.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Nakoda / Nandicab / Payal / Fybros by Kundan cab.	100 RM	31532
		SOR 2015-2016 Deleted ELEC-1.6.14		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.15		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.16		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.17		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.18		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.19		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.20		Deleted

		SOR 2015-2016 Deleted ELEC-1.6.21		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.22		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.23		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.24		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.25		Deleted
		SOR 2015-2016 Deleted ELEC-1.6.26		Deleted
	1.7	FLUSH TYPE SWITCHES AND ACCESSORIES		
172	ELEC-1.7.1	Supply of 6A 1 Way flush type Swich. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	18
173	ELEC-1.7.2	Supply of 6A 2 Way flush type Swich. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	21
174	ELEC-1.7.3	Supply of 6A 2 pin flush type Socket. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	20
175	ELEC-1.7.4	Supply of 6A 3/2 pin flush type Socket with shutter. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	27
176	ELEC-1.7.5	Supply of 6A flush type Neon Indicator. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	20
177	ELEC-1.7.6	Supply of 6A Triangle Plug Top of Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	35
178	ELEC-1.7.7	Supply of 6A 1 Way flush type Bed Swich / Bell Push. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	21
179	ELEC-1.7.8	Supply of 16A flush type Swich. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	65
180	ELEC-1.7.9	Supply of 16A flush type Socket with shutter. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	65
181	ELEC-1.7.10	Supply of 16A flush type Switch Socket combined (2 in one). Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	102
182	ELEC-1.7.11	Supply of 16A Triangle Plug Top Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	50

183	ELEC-1.7.12	Supply of stepped type Electronic Regulator. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	198
184	ELEC-1.7.13	Supply of 3 Plate Jumbo Ceiling Rose. Makes: Anchor / Gold Medal Olive / Million Zoom	1 No	21
185	ELEC-1.7.14	Supply of BH / SBH. Makes: Anchor / Gold Medal Olive / Million Zoom.	1 No	20
186	ELEC-1.7.15	Supply of Pendant Holder / Adopter. Makes: Anchor / Gold Medal Olive / Million Zoom.	1 No	17
187	ELEC-1.7.16	Supply of Telephone Jack with Connector. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	48
188	ELEC-1.7.17	Supply of TV Antenna Outlet. Makes: GM G Home / Gold Medal Olive / Million Zoom / Anchor Penta Cherry / Great white Omega	1 No	26
189	ELEC-1.7.18	Supply of 15A/10A Flush type Fuse. Makes: GM / Million / Gold Medal / Maru Mantero / Anchor Penta Cherry / Great white.	1 No	32
190	ELEC-1.7.19	Supply of 32A DP Flush type. Makes: GM / Million / Gold Medal / Maru Mantero / Anchor Penta Cherry / Great white.	1 No	106
191	ELEC-1.7.20	Supply of Calling Bell. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	50
192	ELEC-1.7.21	Supply of Buzzer. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	45
193	ELEC-1.7.22	Supply of Ding Dong Bell. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	102
194	ELEC-1.7.23	Supply of Electronic Musical Bell. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	240
195	ELEC-1.7.24	Supply of Remote Bell. Makes: GM / Million / Gold Medal / Vimal.	1 No	585
196	ELEC-1.7.25	Supply of MC Holder. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	21
197	ELEC-1.7.26	Supply of Spike Guard with 1 No Switch and 4 Nos Sockets. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white	1 No	350

198	ELEC-1.7.27	Supply of Spike Guard with 4 No Switches and 4 Nos Sockets. Makes: GM / Million / Gold Medal / Maru / Anchor / Great white.	1 No	480
199	ELEC-1.7.28	Supply of 6A 1 Way flush type Switch. Makes: Vimal opel / Starex Smile / CPL	1 No	15
200	ELEC-1.7.29	Supply of 6A 2 Way flush type Swich. Makes: Vimal opel / Starex Smile / CPL	1 No	19
201	ELEC-1.7.30	Supply of 6A 2 pin flush type Socket. Makes: Vimal opel / Starex Smile / CPL	1 No	15
202	ELEC-1.7.31	Supply of 6A 3/2 pin flush type Socket with shutter. Makes: Vimal opel / Starex Smile / CPL	1 No	20
203	ELEC-1.7.32	Supply of 6A flush type Neon Indicator Makes: Vimal opel / Starex Smile / CPL	1 No	18
204	ELEC-1.7.33	Supply of 6A Triangle Plug Top Makes: Vimal opel / Starex Smile / CPL	1 No	28
205	ELEC-1.7.34	Supply of 6A 1 Way flush type Bed Swich / Bell Push. Makes: Vimal opel / Starex Smile / CPL	1 No	18
206	ELEC-1.7.35	Supply of 16A flush type Swich. Makes: Vimal opel / Starex Smile / CPL	1 No	55
207	ELEC-1.7.36	Supply of 16A flush type Socket with shutter. Makes: Vimal opel / Starex Smile / CPL	1 No	55
208	ELEC-1.7.37	Supply of 16A flush type Switch Socket combined (2 in one). Makes: Vimal opel / Starex Smile / CPL	1 No	85
209	ELEC-1.7.38	Supply of 16A Triangle Plug Top Makes: Vimal opel / Starex Smile / CPL	1 No	44
210	ELEC-1.7.39	Supply of stepped type Electronic Regulator. Makes: Vimal opel / Starex Smile / CPL	1 No	162
211	ELEC-1.7.40	Supply of 3 Plate Jumbo Ceiling Rose. Makes: Vimal opel / Starex Smile / CPL	1 No	16
212	ELEC-1.7.41	Supply of 32A DP Flush type of Makes: Milltec / Vimal / Star	1 No	85
		MINI MODULAR SWITCHES AND ACCESSORIES		
		SOR 2015-2016 Deleted ELEC-1.8.1		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.2		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.3		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.4		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.5		Deleted

		SOR 2015-2016 Deleted ELEC-1.8.6		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.7		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.8		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.9		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.10		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.11		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.12		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.13		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.14		Deleted
		SOR 2015-2016 Deleted ELEC-1.8.15		Deleted
	1.8	MODULAR SWITCHES AND ACCESSORIES		
213	ELEC-1.8.1	Supply of 6A / 10A 1 Way 1 Module Modular Switch. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	92
214	ELEC-1.8.2	Supply of 6A / 10A 2 Way 1 Module Modular Switch. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	101
215	ELEC-1.8.3	Supply of 6A / 10A 2 Pin 2 Module Modular Socket. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	93
216	ELEC-1.8.4	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
217	ELEC-1.8.5	Supply of 6A / 10A 1 Module Modular Switch with Neon Indicator. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	117
218	ELEC-1.8.6	Supply of 6A / 10A Modular Bell Push with Neon Indicator. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	137
219	ELEC-1.8.7	Supply of 16A / 10A Modular Flush Fuse with Neon Indicator. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	126
220	ELEC-1.8.8	Supply of 16A / 20A 1 Way 1 Module Modular Switch. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	126
221	ELEC-1.8.9	Supply of 16A / 20A 2 Way 1 Module Modular Switch. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	138

222	ELEC-1.8.10	Supply of 20A 1 Way 1 Module Modular Switch with Indicator. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	138
223	ELEC-1.8.11	Supply of 20A Modular Socket with shutter. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	188
224	ELEC-1.8.12	Supply of 16A/6A 1 way Combi Socket Modular Socket with shutter. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	196
225	ELEC-1.8.13	Supply of 16A Triangle Top. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	158
226	ELEC-1.8.14	Supply of 1 Module Modular type Electronic step type Fan Regulator. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	378
227	ELEC-1.8.15	Supply of Modular socket type Telephone jack with Connector. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	100
228	ELEC-1.8.16	Supply of Modular co-Axial socket type TV Antenna outlet. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	98
229	ELEC-1.8.17	Supply of 6A / 10A 1 Way 1 Module Modular Switch. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	63
230	ELEC-1.8.18	Supply of 6A / 10A 2 Way 1 Module Modular Switch. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	75
231	ELEC-1.8.19	Supply of 6A / 10A 2 Pin 1 Module Modular Socket with shutter. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	64
232	ELEC-1.8.20	Supply of 6A / 10A 3/2 Pin 2 Module Modular Socket with shutter. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	93
233	ELEC-1.8.21	Supply of 6A / 10A 1 Module Modular Switch with Neon Indicator. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	75

234	ELEC-1.8.22	Supply of 6A / 10A 1 Module Modular Bell Push with Neon Indicator. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	90
235	ELEC-1.8.23	Supply of 16A / 10A 1 Module Modular Flush Fuse with Neon Indicator. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	83
236	ELEC-1.8.24	Supply of 16A / 20A 1 Way 1 Module Modular Switch. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	83
237	ELEC-1.8.25	Supply of 16A / 20A 2 Way 1 Module Modular Switch. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	95
238	ELEC-1.8.26	Supply of 20A 1 Way 1 Module Modular Switch with Indicator. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	91
239	ELEC-1.8.27	Supply of 20A 2 Module Modular Socket with shutter. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	133
240	ELEC-1.8.28	Supply of 16A/6A 1 way 2 Module Combi Socket Modular Socket with shutter. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	135
241	ELEC-1.8.29	Supply of 16A Triangle Top. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	65
242	ELEC-1.8.30	Supply of 1 Module Modular type Electronic step type Fan Regulator. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	319
243	ELEC-1.8.31	Supply of Modular socket type Telephone jack with Connector. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	65

244	ELEC-1.8.32	Supply of Modular co-Axial socket type TV Antenna outlet. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	64
245	ELEC-1.8.33	Supply of 1 or 2 Modular Cover Frame. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	65
246	ELEC-1.8.34	Supply of 3 Modular Cover Frame. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	77
247	ELEC-1.8.35	Supply of 4 Modular Cover Frame. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	89
248	ELEC-1.8.36	Supply of 6 Modular Cover Frame . Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	130
249	ELEC-1.8.37	Supply of 8 Modular Horizontal / Vertical Cover Frame. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	172
250	ELEC-1.8.38	Supply of 12 Modular Vertical Cover Frame. Makes: Legrand Arteor / Schneider Zen celo / Honeywell Blenge Plus.	1 No	210
251	ELEC-1.8.39	Supply of 1 or 2 Modular Cover Frame Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	56
252	ELEC-1.8.40	Supply of 3 Modular Cover Frame. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	69
253	ELEC-1.8.41	Supply of 4 Modular Cover Frame. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	81
254	ELEC-1.8.42	Supply of 6 Modular Cover Frame. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	108
255	ELEC-1.8.43	Supply of 8 Modular Horizontal / Vertical Cover Frame. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	137

256	ELEC-1.8.44	Supply of 12 Modular Vertical Cover Frame. Makes: Legrand Myrius / Cabtree Thames Platinum / GM Four Five / Million Logus / Gold Medal Curve / CPL / Panasonic Vision / Salzer S 90 Series.	1 No	167
		SECTION - 2		
	2.1	PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU) AS PER IS: 13947		
257	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	1525
258	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	2625
259	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	6295
260	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	8215
261	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	9865
262	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	15185
263	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	25690
264	ELEC-2.1.8	Supply of 32A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	1244
265	ELEC-2.1.9	Supply of 63A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	1865
266	ELEC-2.1.10	Supply of 125A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	4215
267	ELEC-2.1.11	Supply of 200A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	6375
268	ELEC-2.1.12	Supply of 250A TPN Switch Disconnecter Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	7190

269	ELEC-2.1.13	Supply of 400A TPN Switch Disconnector Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	10980
270	ELEC-2.1.14	Supply of 630A TPN Switch Disconnector Fuse Unit Cubical type without fuses. Makes: Standard / Havells / HPL / Indo Asian / Benlo	1 No	18235
	2.2	ON LOAD CHANGEOVER SWITCHES (OPEN AS PER IS:13947)		
271	ELEC-2.2.1	Supply of 63A 4 Pole Change Over Switch on Load with open Execution. Makes: Socomec / L & T / HPL	1 No	4890
272	ELEC-2.2.2	Supply of 125A 4 Pole Change Over Switch on Load with open Execution. Makes: Socomec / L & T / HPL	1 No	9255
273	ELEC-2.2.3	Supply of 200A 4 Pole Change Over Switch on Load with open Execution. Makes: Socomec / L & T / HPL	1 No	12385
274	ELEC-2.2.4	Supply of 250A 4 Pole Change Over Switch on Load with open Execution. Makes: Socomec / L & T / HPL	1 No	17600
275	ELEC-2.2.5	Supply of 400A 4 Pole Change Over Switch on Load with open Execution. Makes: Socomec / L & T / HPL	1 No	26855
276	ELEC-2.2.6	Supply of 630A 4 Pole Change Over Switch on Load with open Execution of Makes: Socomec / L & T / HPL	1 No	31945
277	ELEC-2.2.7	Supply of 63A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	4330
278	ELEC-2.2.8	Supply of 125A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	8415
279	ELEC-2.2.9	Supply of 200A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	11135
280	ELEC-2.2.10	Supply of 250A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	15835
281	ELEC-2.2.11	Supply of 400A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	24620

282	ELEC-2.2.12	Supply of 630A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	29565
283	ELEC-2.2.13	Supply of 32A 4 Pole Change Over Switch on Load with open Execution. Makes: ABB / GE / Siemens / Havells / Indo Asian / C&S / Benlo	1 No	1665
	2.3	OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE AS PER IS:13947		
284	ELEC-2.3.1	Supply of 32A 240V DP Off load Changeover Switch in sheet steel enclosure. Makes: HPL / Havells / Standard / Indo Asian / C&S	1 No	1450
285	ELEC-2.3.2	Supply of 63A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes: HPL / Havells / Standard / Indo Asian / C&S	1 No	5053
286	ELEC-2.3.3	Supply of 100A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes: HPL / Havells / Standard / Indo Asian / C&S	1 No	7707
287	ELEC-2.3.4	Supply of 32A 240V DP Off load Changeover Switch in sheet steel enclosure. Makes: Benlo / Million / GoldMedal / Vimal / Fybros by Kundan cab.	1 No	836
288	ELEC-2.3.5	Supply of 63A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes: Benlo / Million / GoldMedal / Vimal / Fybros by Kundan cab.	1 No	2937
289	ELEC-2.3.6	Supply of 100A 415V FP Off load Changeover Switch in sheet steel enclosure. Makes: Benlo / Million / GoldMedal / Vimal	1 No	5521
	2.4	REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE AS PER IS:13947		
290	ELEC-2.4.1	Supply of 32A 240V SPN Rewirable Fuse Switch in SS enclosure. Makes: HPL / Havells / Standard / Indo Asian	1 No	1110
291	ELEC-2.4.2	Supply of 32A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: HPL / Havells / Standard / Indo Asian	1 No	1710
292	ELEC-2.4.3	Supply of 63A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: HPL / Havells / Standard / Indo Asian	1 No	3905
293	ELEC-2.4.4	Supply of 100A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: HPL / Havells / Standard / Indo Asian	1 No	7270

294	ELEC-2.4.5	Supply of 100A 415V TPN Double Break Switch in SS enclosure without fuses. Makes: HPL / Havells / Standard / Indo Asian	1 No	7320
295	ELEC-2.4.6	Supply of 200A 415V TPN Double Break Switch in SS enclosure without fuses. Makes: HPL / Havells / Standard / Indo Asian	1 No	10675
296	ELEC-2.4.7	Supply of 32A 240V SPN Rewirable Fuse Switch in SS enclosure. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	716
297	ELEC-2.4.8	Supply of 32A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	1140
298	ELEC-2.4.9	Supply of 63A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	2595
299	ELEC-2.4.10	Supply of 100A 415V TPN Rewirable Fuse Switch in SS enclosure. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	5050
300	ELEC-2.4.11	Supply of 100A 415V TPN Double Break Switch in SS enclosure without fuse. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	5215
301	ELEC-2.4.12	Supply of 200A 415V TPN Double Break Switch in SS enclosure without fuse. Makes: GM / Million / Sputnik / Sigma / Gold Medal / Benlo / Star / Fybros by Kundan cab.	1 No	8545
	2.5	HRC FUSE LINKS (BOLTED TYPE)		
302	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	55
303	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	85
304	ELEC-2.5.3	Supply of 125A to 200A HRC Fuse Links. Makes: L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian	1 No	270
305	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	390
306	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	760

307	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	1535
	2.6	PORCELAIN REWIRABLE FUSE UNITS.		
308	ELEC-2.6.1	Supply of 32A 240V Porcelain Rewirable Fuse Units. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	100
309	ELEC-2.6.2	Supply of 32A 415V Porcelain Rewirable Fuse Units. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	125
310	ELEC-2.6.3	Supply of 63A 415V Porcelain Rewirable Fuse Units. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	260
311	ELEC-2.6.4	Supply of 100A 415V Porcelain Rewirable Fuse Units. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	485
312	ELEC-2.6.5	Supply of 200A 415V Porcelain Rewirable Fuse Units with extension strip. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	895
313	ELEC-2.6.6	Supply of 300A 415V Porcelain Rewirable Fuse Units with extension strip. Makes: GM / Sputnik / Million / Gold Medal / Vimal / Star / Benlo / Fybros by Kundan cab.	1 No	1185
	2.7	VOLTAGE SURGE PROTECTORS		
314	ELEC-2.7.1	Supply of 2 Pole 2 Module 40 KA 1.4 KV Voltage Surge Protector. Makes: Legrand / Siemens / G.E. / L&T / Hager	1 No	8000
315	ELEC-2.7.2	Supply of 4 Pole 4 Module 40 KA 1.4 KV Voltage Surge Protector. Makes: Legrand / Siemens / G.E. / L&T / Hager	1 No	15000
316	ELEC-2.7.3	Supply of 2 Pole 2 Module 15 KA 1.2 KV Voltage Surge Protector. Makes: Legrand / Siemens / G.E. / L&T / Hager	1 No	6400
317	ELEC-2.7.4	Supply of 4 Pole 4 Module 15 KA 1.2 KV Voltage Surge Protector. Makes: Legrand / Siemens / G.E. / L&T / Hager	1 No	12000
		SOR 2015-2016 Deleted ELEC-2.7.5		Deleted
		SOR 2015-2016 Deleted ELEC-2.7.6		Deleted
		SOR 2015-2016 Deleted ELEC-2.7.7		Deleted
		SOR 2015-2016 Deleted ELEC-2.7.8		Deleted

	2.8	PANEL MOUNTING MCCBs/ ACBs (Thermal Magnetic Release)		
318	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	6841
319	ELEC-2.8.2	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	8121
320	ELEC-2.8.3	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	18088
321	ELEC-2.8.4	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	24484
322	ELEC-2.8.5	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	7691
323	ELEC-2.8.6	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	9821
324	ELEC-2.8.7	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. Makes: L&T / Schneider / Siemens / Legrand / Hager	1 No	23499
325	ELEC-2.8.8	Supply of 400A 4 Pole MCCB, Adjustable, 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	29582
326	ELEC-2.8.9	Supply of 63A / 60A 3 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes: GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	4441
327	ELEC-2.8.10	Supply of 125A 3 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes: GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	5048

328	ELEC-2.8.11	Supply of 250A 3 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 36/35 KA with thermal magnetic release Panel Mounted. Makes: Legrand / GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	15565
329	ELEC-2.8.12	Supply of 63A / 60A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes: GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	5952
330	ELEC-2.8.13	Supply of 125A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 25 KA with thermal magnetic release Panel Mounted. Makes: GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	6639
331	ELEC-2.8.14	Supply of 250A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 36 KA with thermal magnetic release Panel Mounted. Makes: Legrand / GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	18911
332	ELEC-2.8.15	Supply of 400A 4 Pole MCCB / Confirms to IS/IEC 60947-2 having Breaking Capacity 50 KA with thermal magnetic release Panel Mounted. Makes: Legrand / GE / ABB / Havells / HPL / Standard / Indo Asian / C&S.	1 No	24035
		PANEL MOUNTING ACBs (Microprocessor Based)		
333	ELEC-2.8.16	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: Siemens / L&T / Schneider.	1 No	109666
334	ELEC-2.8.17	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: Siemens / L&T / Schneider.	1 No	136333
335	ELEC-2.8.18	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: Siemens / L&T / Schneider.	1 No	146783
336	ELEC-2.8.19	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: Siemens / L&T / Schneider.	1 No	181804

337	ELEC-2.8.20	Supply of 800A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection. Makes: Siemens / L&T / Schneider.	1 No	154640
338	ELEC-2.8.21	Supply of 800A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection. Makes: Siemens / L&T / Schneider .	1 No	191881
339	ELEC-2.8.22	Supply of 1000A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection. Makes: Siemens / L&T / Schneider.	1 No	162519
340	ELEC-2.8.23	Supply of 1000A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protectio. Makes: Siemens / L&T / Schneider.	1 No	204637
341	ELEC-2.8.24	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S	1 No	97760
342	ELEC-2.8.25	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically fixed Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S.	1 No	121531
343	ELEC-2.8.26	Supply of 630A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S.	1 No	130846
344	ELEC-2.8.27	Supply of 630A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault Protection. Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S.	1 No	162065
345	ELEC-2.8.28	Supply of 800A 3 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection. Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S.	1 No	137850
346	ELEC-2.8.29	Supply of 800A 4 Pole, 50kA Air Circuit Breaker electrically drawout Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, shot circuit and earth fault protection.	1 No	171049

		Makes: ABB / Legrand / HPL / GE / Indo Asian / C&S.		
347	ELEC-2.8.30	Supply, instalation, testing and commisioning of 800 Amp, 50KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains system made of CRCA sheet steel encloser of thickness not less than 1.5 mm having degree of protection of IP 55 as per 2127. wall strapas, fully PVC insulated four strip ALUMINIUM busbar in convinent sections including , end feed unit, end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc., Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 RM	13328
348	ELEC-2.8.31	Supply and Fixing of Spring suspension hanger for rising Main for 400A / 800A Raising Mains. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	5385
349	ELEC-2.8.32	Supply and Fixing of Suspension brackets for rising main for 400A / 800A Raising Mains. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	4665
350	ELEC-2.8.33	Supply and Fixing of 800 Amps Horizontal / Vertical bends. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	34800
351	ELEC-2.8.34	Supply and Fixing of Adopter box for 400A / 800A Raising Mains. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	15000
352	ELEC-2.8.35	Supply and Fixing of 800 Amps Copper Flexibles for three phases and neutral. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	46550
353	ELEC-2.8.36	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 / Schiender / GE	1 RM	10413
354	ELEC-2.8.37	Supply and Fixing of 400 Amps Horizontal / Vertical bends. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	32750
355	ELEC-2.8.38	Supply and Fixing of 400 Amps Copper Flexibles for three phases and neutral. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	40850

356	ELEC-2.8.39	Supply and Fixing of 400 Amps Tap off box. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	44550
357	ELEC-2.8.40	Supply and Fixing of 250 Amps Tap off box. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	41600
358	ELEC-2.8.41	Supply and Fixing of 250 Amps TPN 36KA DPX250-ER MCCB for tap off boxes for power supply. Makes: Legrand (Zucchini) / L&T / Seimens / Schiender / GE	1 No	16573
	2.9	MCBs (AS PER IS:60898-1:2002)		
359	ELEC-2.9.1	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	201
360	ELEC-2.9.2	Supply of 40-63A 10KA SP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	423
361	ELEC-2.9.3	Supply of 6-32A 10KA DP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	595
362	ELEC-2.9.4	Supply of 40-63A 10KA DP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	962
363	ELEC-2.9.5	Supply of 6-32A 10KA TP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	955
364	ELEC-2.9.6	Supply of 40-63A 10KA TP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	1477
365	ELEC-2.9.7	Supply of 6-32A 10KA FP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	1281
366	ELEC-2.9.8	Supply of 40-63A FP MCB, C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9	1 No	1899
367	ELEC-2.9.9	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	162
368	ELEC-2.9.10	Supply of 40-63A 10KA SP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	356
369	ELEC-2.9.11	Supply of 6-32A 10KA DP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	512
370	ELEC-2.9.12	Supply of 40-63A 10KA DP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	701
371	ELEC-2.9.13	Supply of 6-32A 10KA TP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	818
372	ELEC-2.9.14	Supply of 40-63A 10KA TP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL	1 No	1134

		(Tecno) / Hager / Indo Asian (Gold Plus) / C&S.		
373	ELEC-2.9.15	Supply of 6-32A 10KA FP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	1062
374	ELEC-2.9.16	Supply of 40 - 63A 10KA FP MCB, C/D Curve ISI Mark. Makes: Siemens / GE / ABB / Standard / Havells / HPL (Tecno) / Hager / Indo Asian (Gold Plus) / C&S.	1 No	1424
375	ELEC-2.9.17	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal.	1 No	121
376	ELEC-2.9.18	Supply of 40-63A 10KA SP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal.	1 No	221
377	ELEC-2.9.19	Supply of 6-32A 10KA DP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal.	1 No	335
378	ELEC-2.9.20	Supply of 40-63A 10KA DP MCB, C/D Curve ISI Mark C-Curve. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal.	1 No	501
379	ELEC-2.9.21	Supply of 6-32A 10KA TP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	612
380	ELEC-2.9.22	Supply of 40 - 63A 10KA TP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	945
381	ELEC-2.9.23	Supply of 6-32A 10KA FP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	787
382	ELEC-2.9.24	Supply of 40 - 63A 10KA FP MCB, C/D Curve ISI Mark. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	1112
	2.10	ISOLATORS CONFIRMS TO I E C 60947 PART-III		
383	ELEC-2.10.1	Supply of 32A DP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	338
384	ELEC-2.10.2	Supply of 40A DP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	367
385	ELEC-2.10.3	Supply of 63A DP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	488
386	ELEC-2.10.4	Supply of 40A TP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	624
387	ELEC-2.10.5	Supply of 63A TP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	725
388	ELEC-2.10.6	Supply of 40A FP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	814
389	ELEC-2.10.7	Supply of 63A FP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	890
390	ELEC-2.10.8	Supply of 100A FP Isolator. Makes: Legrand-DX3 / Schneider-Acti9	1 No	956

391	ELEC-2.10.9	Supply of 32A DP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	318
392	ELEC-2.10.10	Supply of 40A DP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	334
393	ELEC-2.10.11	Supply of 63A DP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	411
394	ELEC-2.10.12	Supply of 40A TP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	585
395	ELEC-2.10.13	Supply of 63A TP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	590
396	ELEC-2.10.14	Supply of 40A FP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	678
397	ELEC-2.10.15	Supply of 63A FP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	734
398	ELEC-2.10.16	Supply of 100A FP Isolator. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	918
399	ELEC-2.10.17	Supply of 32A DP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	215
400	ELEC-2.10.18	Supply of 40A DP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	258
401	ELEC-2.10.19	Supply of 63A DP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	345
402	ELEC-2.10.20	Supply of 40A TP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	383
403	ELEC-2.10.21	Supply of 63A TP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	428
404	ELEC-2.10.22	Supply of 40A FP Isolator. Makes: Gold Medal / Milltec / Sputnik / Benlo / GM / Vimal	1 No	572
	2.11	RCCBs CONFIRMS TO IEC:61008 AND IS:12640		
405	ELEC-2.11.1	Supply of 40A 2 Pole RCCB 30mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	2700
406	ELEC-2.11.2	Supply of 63A 2 Pole RCCB 30mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	3300
407	ELEC-2.11.3	Supply of 40A 2 Pole RCCB 100mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	2900

408	ELEC-2.11.4	Supply of 63A 2 Pole RCCB 100mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	3330
409	ELEC-2.11.5	Supply of 40A 4 Pole RCCB 30mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	2970
410	ELEC-2.11.6	Supply of 63A 4 Pole RCCB 30mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	3515
411	ELEC-2.11.7	Supply of 40A 4 Pole RCCB 100mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	3135
412	ELEC-2.11.8	Supply of 63A 4 Pole RCCB 100mA, Makes: Legrand-DX3 / Schneider-Acti9	1 No	4000
413	ELEC-2.11.9	Supply of 40A 2 Pole RCCB 30mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2152
414	ELEC-2.11.10	Supply of 63A 2 Pole RCCB 30mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S. .	1 No	2902
415	ELEC-2.11.11	Supply of 40A 2 Pole RCCB 100mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2118
416	ELEC-2.11.12	Supply of 63A 2 Pole RCCB 100mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2780
417	ELEC-2.11.13	Supply of 40A 4 Pole RCCB 30mA. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2647
418	ELEC-2.11.14	Supply of 40A 4 Pole RCCB 30mA. Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	3019
419	ELEC-2.11.15	Supply of 40A 4 Pole RCCB 100mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2558
420	ELEC-2.11.16	Supply of 63A 4 Pole RCCB 100mA, Makes: Siemens / GE / ABB / Standard / Havells / HPL(Tecno) / Hager / Indo Asian(Gold Plus) / C&S.	1 No	2947
421	ELEC-2.11.17	Supply of MCB type Change Over Switch 20A Double Pole 2 way 400V AC suitable to fix on Din Channel of Makes: Legrand-DX3 / Schneider-Acti9.	1 No	1880
	2.12	MCB DISTRIBUTION BOARDS (AS PER IS:13032)		
422	ELEC-2.12.1	Supply of 4 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	760
423	ELEC-2.12.2	Supply of 8 Way SPN DB with IP 20 Protection as per	1 No	880

		IS:13032 and suitable for 8Nos S.P out goings and for 1 No Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.		
424	ELEC-2.12.3	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(Ekinox 3) / Schneider.	1 No	1045
425	ELEC-2.12.4	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(Ekinox 3) / Schneider.	1 No	990
426	ELEC-2.12.5	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(Ekinox 3) / Schneider.	1 No	1245
427	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(Ekinox 3) / Schneider.	1 No	1505
428	ELEC-2.12.7	Supply of 4 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	463
429	ELEC-2.12.8	Supply of 8 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 8 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	606
430	ELEC-2.12.9	Supply of 12 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 12 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	695
431	ELEC-2.12.10	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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	800
432	ELEC-2.12.11	Supply of 8 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 8 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	1130
433	ELEC-2.12.12	Supply of 12 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 12 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL /	1 No	1350

		Hager/ Indo Asian / C&S.		
434	ELEC-2.12.13	Supply of 4 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 4Nos S.P out goings and for 1 No Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	328
435	ELEC-2.12.14	Supply of 8 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 8 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	446
436	ELEC-2.12.15	Supply of 12 Way SPN DB with IP 20 Protection as per IS:13032 and suitable for 12 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	547
437	ELEC-2.12.16	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: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	551
438	ELEC-2.12.17	Supply of 8 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 8 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	756
439	ELEC-2.12.18	Supply of 12 Way SPN DB with IP 43 Protection as per IS:13032 and suitable for 12 Nos S.P out goings and for 1 No Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	957
440	ELEC-2.12.19	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(Ekinox 3) / Schneider.	1 No	1500
441	ELEC-2.12.20	Supply of 8 Way TPN DB Horizontal with IP 20 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(Ekinox 3) / Schneider.	1 No	2200
442	ELEC-2.12.21	Supply of 12 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 36 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	4205
443	ELEC-2.12.22	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. Makes: Legrand(Ekinox 3) / Schneider.	1 No	2491

444	ELEC-2.12.23	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(Ekinox 3) / Schneider.	1 No	3750
445	ELEC-2.12.24	Supply of 12 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 36 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	5429
446	ELEC-2.12.25	Supply of 4 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	5125
447	ELEC-2.12.26	Supply of 8 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	6322
448	ELEC-2.12.27	Supply of 12 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	9202
449	ELEC-2.12.28	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(Ekinox 3) / Schneider.	1 No	6045
450	ELEC-2.12.29	Supply of 6 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(Ekinox 3) / Schneider.	1 No	7000
451	ELEC-2.12.30	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(Ekinox 3) / Schneider.	1 No	7770
452	ELEC-2.12.31	Supply of 12 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for 12 Nos T.P. out goings etc complete. Makes: Legrand(Ekinox 3) / Schneider.	1 No	10078
453	ELEC-2.12.32	Supply of 7 Segment 4 Way TPN DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and 12 Nos SPMCB's as out going. Makes: Legrand(Ekinox 3) / Schneider.	1 No	6500
454	ELEC-2.12.33	Supply of 7 Segment 8 Way TPN DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and 24Nos SPMCB's as out going. Makes: Legrand(Ekinox 3) / Schneider.	1 No	7800
455	ELEC-2.12.34	Supply of 4 Way VTPN DB suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and 4 Nos TP MCBs as	1 No	7843

		outgoing and with IP 43 Protection. Makes: Legrand(Ekinox 3) / Schneider.		
456	ELEC-2.12.35	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(Ekinox 3) / Schneider.	1 No	9823
457	ELEC-2.12.36	Supply of 20A SP Plug and Socket in SS enclosure. Makes: Legrand(Ekinox 3) / Schneider.	1 No	901
458	ELEC-2.12.37	Supply of 20A TP Plug and Socket in SS enclosure. Makes: Legrand(Ekinox 3) / Schneider.	1 No	1915
459	ELEC-2.12.38	Supply of 32A TP Plug and Socket in SS enclosure. Makes: Legrand(Ekinox 3) / Schneider.	1 No	2287
460	ELEC-2.12.39	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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	1550
461	ELEC-2.12.40	Supply of 8 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 24 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	2200
462	ELEC-2.12.41	Supply of 12 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 36 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	3000
463	ELEC-2.12.42	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. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	2200
464	ELEC-2.12.43	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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	3500
465	ELEC-2.12.44	Supply of 12 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 36 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	5000
466	ELEC-2.12.45	Supply of 4 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	3800

467	ELEC-2.12.46	Supply of 8 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	5250
468	ELEC-2.12.47	Supply of 12 Way VTPN DB with IP 20 Protection as per IS:13032 and suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	6800
469	ELEC-2.12.48	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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	5600
470	ELEC-2.12.49	Supply of 6 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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	7100
471	ELEC-2.12.50	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: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	9100
472	ELEC-2.12.51	Supply of 12 Way VTPN DB suitable for accommodating 4 pole incomer with IP 43 Protection as per IS:13032 and suitable for 12 Nos T.P. out goings etc complete. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	4900
473	ELEC-2.12.52	Supply of 7 Segment 4 Way TPN DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and 12 Nos SPMCB's as out going. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	6200
474	ELEC-2.12.53	Supply of 7 Segment 8 Way TPN DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and 24Nos SPMCB's as out going. Makes: Siemens / GE / ABB / Standard / Havells / HPL / Hager/ Indo Asian / C&S.	1 No	680
475	ELEC-2.12.54	Supply of 4 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 12Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	1275

476	ELEC-2.12.55	Supply of 8 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 24Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	1770
477	ELEC-2.12.56	Supply of 12 Way TPN DB Horizontal with IP 20 Protection as per IS:13032 and suitable for 36Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	2200
478	ELEC-2.12.57	Supply of 4 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 12Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	1650
479	ELEC-2.12.58	Supply of 6 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 18Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	1900
480	ELEC-2.12.59	Supply of 8 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 24Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	2200
481	ELEC-2.12.60	Supply of 12 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 and suitable for 36 Nos S.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal / Fybros by Kundan cab.	1 No	2800
482	ELEC-2.12.61	Supply of 4 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 20 Protection as per IS:13032 and suitable for 4 Nos T.P. out goings etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	2700
483	ELEC-2.12.62	Supply of 6 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 20 Protection as per IS:13032 and suitable for 6 Nos T.P. out goings and for 1 No 4 pole Incommer etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	3500
484	ELEC-2.12.63	Supply of 8 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 20 Protection as per IS:13032 and suitable for 8 Nos T.P. out goings etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	4700
485	ELEC-2.12.64	Supply of 4 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 43 Protection as per IS:13032 and suitable for 4 Nos T.P. out goings etc complete.	1 No	2700

		Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.		
486	ELEC-2.12.65	Supply of 8 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 43 Protection as per IS:13032 and suitable for 8 Nos T.P. out goings etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	4700
487	ELEC-2.12.66	Supply of 12 Way VTPN DB suitable for accommodating 4 pole Isolator as incomer with IP 43 Protection as per IS:13032 and suitable for 12 Nos T.P. out goings etc complete. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	6300
488	ELEC-2.12.67	Supply of 20A SP Plug and Socket in SS enclosure. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	590
489	ELEC-2.12.68	Supply of 20A TP Plug and Socket in SS enclosure. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	925
490	ELEC-2.12.69	Supply of 32A TP Plug and Socket in SS enclosure. Makes: Gold Medal / GM / Milltec / Sputnik / Benlo / Vimal.	1 No	1300
491	ELEC-2.12.70	Supply of SP Enclosure with IP 20 Protection. Makes: Legrand(Ekinox 3) / Schneider.	1 No	250
492	ELEC-2.12.71	Supply of DP/TP/FP Metal Enclosure with IP 20 Protection. Makes: Legrand(Ekinox 3) / Schneider.	1 No	366
		SECTION - 3		
	3.1	STREET LIGHT LUMINAIRES		
493	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. Makes: Phillips / Crompton / Bajaj / Surya	1 No	1260
494	ELEC-3.1.2	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. Makes: HPL / Havells	1 No	1050
495	ELEC-3.1.3	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. Makes: Style lamp / Mahita Electro / Capart / RK / Prolite	1 No	900
496	ELEC-3.1.4	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: Phillips / Crompton / Bajaj / Surya	1 No	2900
497	ELEC-3.1.5	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: Havells / HPL / Venture / Halonix	1 No	2600

498	ELEC-3.1.6	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: Style lamp / Mahita Electro / Capart / RK / Prolite	1 No	2350
499	ELEC-3.1.7	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: Phillips / Crompton / Bajaj / Surya	1 No	4600
500	ELEC-3.1.8	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: Havells / HPL / Venture / Halonix	1 No	4000
501	ELEC-3.1.9	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: Style lamp / Mahita Electro / Capart / RK / Prolite	1 No	3600
502	ELEC-3.1.10	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. Makes: Phillips / Crompton / Bajaj / Surya	1 No	5200
503	ELEC-3.1.11	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. Makes: Havells / HPL / Venture / Halonix	1 No	4700
504	ELEC-3.1.12	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. Makes: Style lamp / Mahita Electro / Capart / RK / Prolite	1 No	4100
		SOR 2015-2016 Deleted ELEC-3.1.13		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.14		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.15		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.16		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.17		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.18		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.19		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.20		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.21		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.22		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.23		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.24		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.25		Deleted

505	ELEC-3.1.13	Supply of 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes: Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture	1 No	7300
506	ELEC-3.1.14	Supply of 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes: HPL / Havells.	1 No	6300
507	ELEC-3.1.15	Supply of 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes: Style lamp / Mahita Electro / Capart	1 No	5600
508	ELEC-3.1.16	Supply of 2 x 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes: Wipro / G.E. / Phillips / Bajaj / Crompton / Surya / Venture	1 No	13500
509	ELEC-3.1.17	Supply of 2 x 400W MH Flood light luminaire with Non - integral weather proof diecast alluminium housing with IP65 / IP66 protection with Control Gear Box without lamp. Makes: HPL / Havells.	1 No	12000
		SOR 2015-2016 Deleted ELEC-3.1.31		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.32		Deleted
510	ELEC-3.1.18	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 / RK / Prolite	1 No	530
		SOR 2015-2016 Deleted ELEC-3.1.34		Deleted
		SOR 2015-2016 Deleted ELEC-3.1.35		Deleted
511	ELEC-3.1.19	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 / RK / Prolite	1 No	1000
		SOR 2015-2016 Deleted ELEC-3.1.37		Deleted
512	ELEC-3.1.20	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: Phillips / Bajaj / Crompton / Havells	1 No	2250
	3.2	POST TOP LANTERN LUMINAIRES		
513	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.	1 No	1800

		Makes: Philips / Crompton / Bajaj / Surya / Havells / HPL.		
514	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 / HPL / Havells.	1 No	3800
		ACCESSORIES FOR MV / SV / MH LUMINAIRES		
	3.3	COPPER BALLASTS		
515		SOR 2015-2016 Deleted ELEC-3.3.1		Deleted
516		SOR 2015-2016 Deleted ELEC-3.3.2		Deleted
517		SOR 2015-2016 Deleted ELEC-3.3.3		Deleted
518		SOR 2015-2016 Deleted ELEC-3.3.4		Deleted
519	ELEC-3.3.1	Supply of 70 W SV / MH copper ballast. Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / halonix	1 No	680
		SOR 2015-2016 Deleted ELEC-3.3.6		Deleted
520	ELEC-3.3.2	Supply of 70 W SV / MH copper ballast. Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite	1 No	550
521	ELEC-3.3.3	Supply of 150 W SV / MH copper ballast. Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / halonix	1 No	1000
		SOR 2015-2016 Deleted ELEC-3.3.9		Deleted
522	ELEC-3.3.4	Supply of 150 W SV / MH copper ballast. Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite	1 No	800
523	ELEC-3.3.5	Supply of 250 W SV / MH copper ballast. Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / halonix	1 No	1500
		SOR 2015-2016 Deleted ELEC-3.3.12		Deleted
524	ELEC-3.3.6	Supply of 250 W SV / MH copper ballast. Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite	1 No	1100
525	ELEC-3.3.7	Supply of 400 W SV / MH copper ballast. Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / halonix	1 No	2200
		SOR 2015-2016 Deleted ELEC-3.3.15		Deleted
526	ELEC-3.3.8	Supply of 400 W SV / MH copper ballast. Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite	1 No	1500
527	ELEC-3.3.9	Supply of Ignitor for SV / MH Lamp.	1 No	160

		Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / HPL / Havells / Venture / Capart		
528	ELEC-3.3.10	Supply of 4 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	100
529	ELEC-3.3.11	Supply of 10 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	165
530	ELEC-3.3.12	Supply of 15 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	200
531	ELEC-3.3.13	Supply of 20 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	270
532	ELEC-3.3.14	Supply of 33 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	400
533	ELEC-3.3.15	Supply of 42 mfd HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.	1 No	450
		ENERGY SAVING ELECTRONIC BALLAST FOR STREET LIGHT		
534	ELEC-3.3.16	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	2100
535	ELEC-3.3.17	Supply of 150W SV / MH Electronic ballast having < 3W loss, PF > 0.90, THD < 15% with 3 years guarantee. Makes: Phillips / Whipro / Trinic / GE.	1 No	3350
		SOR 2015-2016 Deleted ELEC-3.3.26		Deleted
		SOR 2015-2016 Deleted ELEC-3.3.27		Deleted
	3.4	LAMPS		
536	ELEC-3.4.1	Supply of 500W Hallozen Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix.	1 No	86
		SOR 2015-2016 Deleted ELEC-3.4.2		Deleted
537	ELEC-3.4.2	Supply of 500W Hallozen Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	55
538	ELEC-3.4.3	Supply of 1000W Hallozen Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix.	1 No	110
		SOR 2015-2016 Deleted ELEC-3.4.5		Deleted

539	ELEC-3.4.4	Supply of 1000W Hallozen Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	75
540	ELEC-3.4.5	Supply of 70W SV Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	420
		SOR 2015-2016 Deleted ELEC-3.4.8		Deleted
541	ELEC-3.4.6	Supply of 70W SV Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	300
542	ELEC-3.4.7	Supply of 150W SV Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	550
		SOR 2015-2016 Deleted ELEC-3.4.11		Deleted
543	ELEC-3.4.8	Supply of 150W SV Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	400
544	ELEC-3.4.9	Supply of 250W SV Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	625
		SOR 2015-2016 Deleted ELEC-3.4.14		Deleted
545	ELEC-3.4.10	Supply of 250W SV Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	450
		SOR 2015-2016 Deleted ELEC-3.4.16		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.17		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.18		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.19		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.20		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.21		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.22		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.23		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.24		Deleted
546	ELEC-3.4.11	Supply of 70W MH Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	800
547	ELEC-3.4.12	Supply of 70W MH Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	720
548	ELEC-3.4.13	Supply of 150W MH Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	840
		SOR 2015-2016 Deleted ELEC-3.4.28		Deleted

549	ELEC-3.4.14	Supply of 150W MH Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	720
550	ELEC-3.4.15	Supply of 250W MH Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	1050
		SOR 2015-2016 Deleted ELEC-3.4.31		Deleted
551	ELEC-3.4.16	Supply of 250W MH Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	825
552	ELEC-3.4.17	Supply of 400W MH Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix	1 No	1200
		SOR 2015-2016 Deleted ELEC-3.4.34		Deleted
553	ELEC-3.4.18	Supply of 400W MH Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart	1 No	925
		SOR 2015-2016 Deleted ELEC-3.4.36		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.37		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.38		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.39		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.40		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.41		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.42		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.43		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.44		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.45		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.46		Deleted
		SOR 2015-2016 Deleted ELEC-3.4.47		Deleted
	3.5	AUTOMATIC STREET LIGHT CONTROL SYSTEMS		
554	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. Make: Swadeep Nature Switch / Light Mate or its equivalent.	1 No	11000

555	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. Make: Swadeep Nature Switch / Light Mate or its equivalent.	1 No	11500
556	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. Make: Swadeep Nature Switch / Light Mate or its equivalent.	1 No	13100
557	ELEC-3.5.4	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 5 KW of Three phase load with necessary clamping arrangements. Make: Swadeep Nature Switch or its equivalent.	1 No	13140
558	ELEC-3.5.5	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 8 KW of Three phase load with necessary clamping arrangements. Make: Swadeep Nature Switch or its equivalent.	1 No	14220
559	ELEC-3.5.6	Supply of Automatic Street Light Control System with Optical Sensor, Low volatage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of 12 KW of Three phase load with necessary clamping arrangements. Make: Swadeep Nature Switch or its equivalent.	1 No	18000
	3.6	INTERNAL LUMINAIRES		
		SOR 2015-2016 Deleted ELEC-3.6.1		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.2		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.3		Deleted
560	ELEC-3.6.1	Supply of 1 x 36/40W Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj .	1 No	800
561	ELEC-3.6.2	Supply of 1 x 36/40W Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories.	1 No	730

		Makes: Surya / Havells / HPL / Fortune Art		
562	ELEC-3.6.3	Supply of 2 x 36/40W Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	1200
563	ELEC-3.6.4	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. Makes: Surya / Havells / HPL / Fortune Art	1 No	1100
564	ELEC-3.6.5	Supply of 1 x 36/40W Patty type tube light luminaire powder coated CRCA sheet steel housing with Copper Chokes and all standard accessories. Makes: Crompton / Bajaj / Surya / Havells / HPL.	1 No	275
565	ELEC-3.6.6	Supply of 1 x 36/40W Patty type tube light luminaire powder coated CRCA sheet steel housing with Copper Chokes and all standard accessories. Makes: RK / Million / Gold Medal / Vimal / Akhil.	1 No	235
		SOR 2015-2016 Deleted ELEC-3.6.10		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.11		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.12		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.13		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.14		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.15		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.16		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.17		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.18		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.19		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.20		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.21		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.22		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.23		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.24		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.25		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.26		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.27		Deleted
566	ELEC-3.6.7	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	140

567	ELEC-3.6.8	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes: Surya / Havells / HPL / Fortune Art.	1 No	120
568	ELEC-3.6.9	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes: RK / Style Lamp / Mahita Electro / Capart	1 No	110
569	ELEC-3.6.10	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	140
570	ELEC-3.6.11	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes: Surya / Havells / HPL / Fortune Art.	1 No	125
571	ELEC-3.6.12	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes: RK / Style Lamp / Mahita Electro / Capart	1 No	110
572	ELEC-3.6.13	Supply of 20W Copper Wound Ballast Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	160
573	ELEC-3.6.14	Supply of 20W Copper Wound Ballast. Makes: Surya / Havells / HPL / Fortune Art	1 No	140
574	ELEC-3.6.15	Supply of 20W Copper Wound Ballast . Makes: RK / Style Lamp / Akhil / Capart / Million / Gold Medal / Vimal.	1 No	130
575	ELEC-3.6.16	Supply of 40W Copper Wound Ballast. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	160
576	ELEC-3.6.17	Supply of 40W Copper Wound Ballast. Makes: Surya / Havells / HPL / Fortune Art	1 No	140
577	ELEC-3.6.18	Supply of 40W Copper Wound Ballast . Makes: RK / Style Lamp / Akhil / Capart / Million / Gold Medal / Vimal.	1 No	130
578	ELEC-3.6.19	Supply of 18/20W VPIT Ballast. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	160
579	ELEC-3.6.20	Supply of 18/20W VPIT Ballast. Makes: Surya / Havells / HPL / Fortune Art	1 No	140
580	ELEC-3.6.21	Supply of 18/20W VPIT Ballast. Makes: RK / Style Lamp / Mahita Electro / Capart	1 No	125
581	ELEC-3.6.22	Supply of 36/40W VPIT Ballast. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	210
582	ELEC-3.6.23	Supply of 36/40W VPIT Ballast. Makes: Surya / Havells / HPL / Fortune Art	1 No	180
583	ELEC-3.6.24	Supply of 36/40W VPIT Ballast. Makes: RK / Style Lamp / Mahita Electro / Capart / Million / Gold Medal / Vimal.	1 No	170
584	ELEC-3.6.25	Supply of 40W Starter. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	11
585	ELEC-3.6.26	Supply of 40W Starter. Makes: Surya / Havells / HPL / Fortune Art	1 No	9

586	ELEC-3.6.27	Supply of 40W Starter. Makes: RK / Style Lamp / Mahita Electro / Capart / Million / Gold Medal / Vimal.	1 No	8
587	ELEC-3.6.28	Supply of Rotor holder(FTL). Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	21
588	ELEC-3.6.29	Supply of Rotor holder(FTL) Makes: Surya / Havells / HPL / Fortune Art	1 No	19
		SOR 2015-2016 Deleted ELEC-3.6.51		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.52		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.53		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.54		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.55		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.56		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.57		Deleted
589	ELEC-3.6.30	Supply of FTL Starter holder. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	15
590	ELEC-3.6.31	Supply of FTL Starter holder. Makes: Surya / Havells.	1 No	13
591	ELEC-3.6.32	Supply of FTL Starter holder. Makes: RK / Style Lamp / Mahita Electro / Capart / Million / Gold Medal / Vimal.	1 No	12
592	ELEC-3.6.33	Supply of 36W Electronic Ballast with total harmonic distortion is less than 10% for FTL. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj.	1 No	500
593	ELEC-3.6.34	Supply of 36W Electronic Ballast with total harmonic distortion is less than 10% for FTL. Makes: Surya / HPL / Havells.	1 No	400
594	ELEC-3.6.35	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	250
		SOR 2015-2016 Deleted ELEC-3.6.64		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.65		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.66		Deleted
		SOR 2015-2016 Deleted ELEC-3.6.67		Deleted
	3.7	FLOURSCENT TUBES / CFL LAMPS / LED BULBS		
595	ELEC-3.7.1	Supply of 40W-60W Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / Havells / Anchor.	1 No	12

596	ELEC-3.7.2	Supply of 40W-60W Lamp. Makes: Elton / Style Lamp / Mahita Electro / Capart	1 No	10
597	ELEC-3.7.3	Supply of Night Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	11
598	ELEC-3.7.4	Supply of 18/20W fluorescent tube. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	40
599	ELEC-3.7.5	Supply of 18/20W fluorescent tube . Makes: Surya / HPL / Fortune Art	1 No	39
600	ELEC-3.7.6	Supply of 18/20W fluorescent tube. Makes: Style tube / Mahita Electro / Capart	1 No	38
601	ELEC-3.7.7	Supply of 36/40W fluorescent tube. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	45
602	ELEC-3.7.8	Supply of 36/40W fluorescent tube. Makes: Surya / HPL / Fortune Art	1 No	40
603	ELEC-3.7.9	Supply of 36/40W fluorescent tube. Makes: Style tube / Mahita Electro / Capart	1 No	42
604	ELEC-3.7.10	Supply of 28W T5 fluorescent tube. Makes: Crompton / Bajaj / Phillips / Surya / Havells / Anchor	1 No	100
605	ELEC-3.7.11	Supply of 9W Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	70
606	ELEC-3.7.12	Supply of 9W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	65
607	ELEC-3.7.13	Supply of 11W Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	80
608	ELEC-3.7.14	Supply of 11W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	75
609	ELEC-3.7.15	Supply of 13W Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	100
610	ELEC-3.7.16	Supply of 13W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	85
611	ELEC-3.7.17	Supply of 18W Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor3.7.17)	1 No	110
612	ELEC-3.7.18	Supply of 18W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	95
613	ELEC-3.7.19	Supply of 26W Pin type CFL Lamp.	1 No	140

		Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor		
614	ELEC-3.7.20	Supply of 26W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	130
615	ELEC-3.7.21	Supply of 36W Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	135
616	ELEC-3.7.22	Supply of 36W Pin type CFL Lamp. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	125
617	ELEC-3.7.23	Supply of up to 5W Retrofit tiny CFL. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	115
618	ELEC-3.7.24	Supply of up to 5W Retrofit tiny CFL. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	110
619	ELEC-3.7.25	Supply of up to 8W Retrofit tiny CFL. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	125
620	ELEC-3.7.26	Supply of up to 8W Retrofit tiny CFL. Makes: Surya / HPL / Fortune Art / Halonix.	1 No	120
621	ELEC-3.7.27	Supply of up to 10/11W Retrofit tiny CFL. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	135
		SOR 2015-2016 Deleted ELEC-3.7.28		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.29		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.30		Deleted
622	ELEC-3.7.28	Supply of 15W Retrofit tiny CFL. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Anchor	1 No	170
		SOR 2015-2016 Deleted ELEC-3.7.32		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.33		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.34		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.35		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.36		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.37		Deleted
		SOR 2015-2016 Deleted ELEC-3.7.38		Deleted
623	ELEC-3.7.29	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 /Crompton / Bajaj / Havells / Halonix / VIN / Jaquor	1 No	70

624	ELEC-3.7.30	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: Syska / Green Lites / Pasolite / Fortune Art /HPL /Polycab / GM / GoldMedal	1 No	60
625	ELEC-3.7.31	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. Makes: Phillips /Crompton / Bajaj / Havells / Halonix / VIN / Jaquor	1 No	175
626	ELEC-3.7.32	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. Makes: Syska / Green Lites / Pasolite / Fortune Art /HPL /Polycab / GM / GoldMedal	1 No	160
627	ELEC-3.7.33	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. Makes: Phillips / Crompton / Bajaj / Havells / Halonix / VIN / Jaquor / Renesola	1 No	250
628	ELEC-3.7.34	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. Makes: Syska / Green Lites / Pasolite / Fortune Art / HPL / Polycab / GM / GoldMedal	1 No	210
629	ELEC-3.7.35	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 / Crompton / Bajaj / Havells / Halonix / VIN / Jaquor / Renesola	1 No	290
630	ELEC-3.7.36	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: Syska / Green Lites / Pasolite / Fortune Art /HPL / Polycab / GM / GoldMedal	1 No	250
631	ELEC-3.7.37	Supply of 3W to 25W 3000K, AC 160-260V, LED Candel Lamp for shandliers. Makes: Phillips / Crompton / Bajaj / Havells / Halonix / VIN / Jaquor / Renesola	1 No	320
632	ELEC-3.7.38	Supply of 3W to 25W 3000K, AC 160-260V, LED Candel Lamp for shandliers. Makes: Syska / Green Lites / Pasolite / Fortune Art / HPL / Polycab / GM / GoldMedal	1 No	225
	3.8	ENERGY CONSERVING FIXTURES		
		SOR 2015-2016 Deleted ELEC-3.8.1		Deleted

633	ELEC-3.8.1	Supply of 1 x 28W Box type powder coated energy conserving tube light luminaire with Electronic ballast operating voltage range of 90 volts to 350 volts power factor > 0.98 current less than 130ma crest factor and total harmonic distortion shall be as per IS Specification with auto cut off at high voltage suitable for 36/40W tube with 5 years guarantee for luminaire. Makes: Trinic or its equivalent.	1 No	1060
		SOR 2015-2016 Deleted ELEC-3.8.3		Deleted
634	ELEC-3.8.2	Supply of 28 W Electronic Ballast with less than 10% total harmonic distortion and auto cut off at High Voltage suitable for FTL with 5 years guarantee for luminaire. Makes: Trinic or its equivalent.	1 No	700
	3.9	LED LUMINAIRES INDOOR		
		DOWN LIGHTERS		
		SOR 2015-2016 Deleted ELEC-3.9.1		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.2		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.3		Deleted
635	ELEC-3.9.1	Supply, Transportation and fixing of LED Down lighter, suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.1 a	6W	1 No	1050
	ELEC-3.9.1 b	9W	1 No	1400
	ELEC-3.9.1 c	12W	1 No	1900
	ELEC-3.9.1 d	15W	1 No	1950
	ELEC-3.9.1 e	18W	1 No	2300

636	ELEC-3.9.2	Supply, Transportation and fixing of LED Down lighter, suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete Makes:Surya / Fortune Art / Syska / GM / GreenLites / Gold Medal / Halonix / Trinic / HPL / Jaquar / Insta Power / Enrich / Capart / Pharox / Kashyap / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.2 a	6W	1 No	800
	ELEC-3.9.2 b	9W	1 No	1000
	ELEC-3.9.2 c	12W	1 No	1400
	ELEC-3.9.2 c	15W	1 No	1450
	ELEC-3.9.2 d	18W	1 No	1600
637	ELEC-3.9.3	Supply, Transportation and fixing of LED Down lighter, suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete a) LUMINAIRE MAKE : Pasolite / Cosmo / Avni / Polycab / Vimal / SIEGER. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.3 a	6W		700
	ELEC-3.9.3 b	9W		800
	ELEC-3.9.3 c	12W		1100
		PANEL LIGHTS		

638	ELEC-3.9.4	Supply, Transportation and fixing of LED Slim Panel Round / Square suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 120 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.4 a	3W	1 No	400
	ELEC-3.9.4 b	6W	1 No	750
	ELEC-3.9.4 c	9W	1 No	1000
	ELEC-3.9.4 d	12W	1 No	1200
	ELEC-3.9.4 e	15W	1 No	1500
	ELEC-3.9.4 f	18W	1 No	1800
	ELEC-3.9.4 g	24W	1 No	2200
	ELEC-3.9.4 h	36W/40W (600mm x 600mm)	1 No	4500
639	ELEC-3.9.5	Supply, Transportation and fixing of LED Slim Panel Round / Square suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 120 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes: Surya / Fortune Art / Syska / GM / Green Lites / Gold Medal / Halonix / HPL / Trinic / Pharox / Jaquar / Insta Power / Enrich / Kashyap / Anchor Panasonic / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.5 a	6W	1 No	700
	ELEC-3.9.5 b	9W	1 No	800
	ELEC-3.9.5 c	12W	1 No	1000
	ELEC-3.9.5 d	15W	1 No	1200
	ELEC-3.9.5 e	18W	1 No	1500
	ELEC-3.9.5 f	24W	1 No	2000

640	ELEC-3.9.6	Supply, Transportation and fixing of LED Slim Panel Round / Square suitable for Recessed / Surface mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 120 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Pasolite / Cosmo / Avni / Polycab / Vimal / Kashyap / SIEGER. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.6 a	6W	1 No	660
	ELEC-3.9.6 b	9W	1 No	760
	ELEC-3.9.6 c	12W	1 No	950
	ELEC-3.9.6 d	15W	1 No	1140
	ELEC-3.9.6 e	18W	1 No	1425
		COB DOWN LIGHTS		
641	ELEC-3.9.7	Supply, Transportation and fixing of LED COB Down lighter, suitable for Recessed mounting made of diecast aluminium body with powder coating, with reflector , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.7 a	9 / 10 W	1 No	1950
	ELEC-3.9.7 b	12 / 15W	1 No	2280
	ELEC-3.9.7 c	18 / 20W	1 No	2750
	ELEC-3.9.7 d	30W	1 No	4400
642	ELEC-3.9.8	Supply, Transportation and fixing of LED COB Down lighter, suitable for Recessed mounting made of diecast aluminium body with powder coating, with reflector , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI>70, etc., complete Makes : Surya / Fortune Art / Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.8 a	9 / 10 W		1600

	ELEC-3.9.8 b	12 / 15W	1 No	1900
	ELEC-3.9.8 c	18 / 20W	1 No	2340
	ELEC-3.9.8 d	30W	1 No	3800
		SPOT LIGHTS / WALL WASHERS		
643	ELEC-3.9.9	Supply, Transportation and fixing of LED COB Spot Light, suitable for Recessed mounting made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro /Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.9 a	1W / 2W	1 No	350
	ELEC-3.9.9 b	3W	1 No	490
	ELEC-3.9.9 c	5W	1 No	695
644	ELEC-3.9.10	Supply, Transportation and fixing of LED COB Down lighter, suitable for Recessed mounting made of diecast aluminium body with powder coating, acrylic diffuser with Driver, operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 120 lumens/watt,CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes: Makes:Surya / Fortune Art /Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Kashyap / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.10 a	1W / 2W	1 No	330
	ELEC-3.9.10 b	3W	1 No	460
	ELEC-3.9.10 c	5W	1 No	650
645	ELEC-3.9.11	Supply, Transportation and fixing of LED COB Wall washer, suitable for Recessed mounting made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000K , minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro /Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.11 a	12 / 15W	1 No	3200
	ELEC-3.9.11 b	22 / 25W	1 No	5600
	ELEC-3.9.11 c	30 / 35W	1 No	7100

646	ELEC-3.9.12	Supply, Transportation and fixing of LED COB Wall washer, suitable for Recessed mounting made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000K , minimum CRI>70, .etc., complete Makes: Makes:Surya / Fortune Art / Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Kashyap / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.12 a	12 / 15W	1 No	3000
	ELEC-3.9.12 b	22 / 25W	1 No	5200
	ELEC-3.9.12 c	30 / 35W	1 No	6800
		TUBE LIGHTS AND 2' x 2' LUMINARIES		
		SOR 2015-2016 Deleted ELEC-3.9.15		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.16		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.17		Deleted
647	ELEC-3.9.13	Supply, transportation and fixing of 16W/20W, 1600/2000 lumens, ,1200mm length LED batten light, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete. Makes: Phillips / GE / Crompton / Bajaj / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	1300
648	ELEC-3.9.14	Supply, transportation and fixing of 16W/20W, 1600/2000 lumens, ,1200mm length LED batten light, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete . Makes: Surya / KRIPA Lights / Fortune Art / Capart / SEMTRONICS / Syska / Pasolite / Cosmo / VRILISO / Anchor Panasonic / Stanjo / Avni / Halonix / HPL / Trinic / Pharox. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	1100
649	ELEC-3.9.15	Supply, transportation and fixing of 16W/20W, 1600/2000 lumens, ,1200mm length LED batten light, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<15%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete . Makes: Procorp / Scintilla / R-LED. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	950

650	ELEC-3.9.16	Supply, transportation and fixing of 20W, 2000 lumens, T8,1200mm length LED retrofit tube light, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete as per IS 10322 (Part 5/ Sec 1)..2012 Makes: Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	1300
651	ELEC-3.9.17	Supply, transportation and fixing of 20W, 2000 lumens, T8,1200mm length LED retrofit tube light, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete as per IS 10322 (Part 5/ Sec 1)..2012 Makes: Surya / Fortune Art / Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Insta Power / Enrich / Trinic / Kashyap / Anchor Panasonic / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	1100
652	ELEC-3.9.18	Supply, transportation and fixing of 18W / 20W, 1700 lumens, T5, 1200mm length LED with extruded polycarbonate / white powder coated slim box made of CRCA sheet tube light fixture, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete as per IS 10322 (Part 5/ Sec 1)..2012 Makes: Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	1200
653	ELEC-3.9.19	Supply, transportation and fixing of 18W / 20W, 1700 lumens, T5, 1200mm length LED with extruded polycarbonate / white powder coated slim box made of CRCA sheet tube light fixture, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, .etc., complete as per IS 10322 (Part 5/ Sec 1)..2012 Makes : Surya / Fortune Art /Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Trinic / Kashyap / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	950

654	ELEC-3.9.20	Supply, transportation and fixing of 36W Recessed / Surface mounting 2' x 2' LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current Driver, With System lumen output $\geq 3200\text{lm}$ operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 120 lumens / watt, CCT: 3000K - 5700K, minimum CRI>70, .etc.,, complete. a) LUMINAIRE MAKE : Phillips / GE / Crompton / Wipro / Bajaj / Havells / VIN / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	4600
655	ELEC-3.9.21	Supply, transportation and fixing of 36W Recessed / Surface mounting 2' x 2' LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 high power LEDs having efficacy of > 120 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 10% etc.,, complete Makes: Surya / Fortune Art / Syska / GM / GreenLites / Gold Medal / Halonix / HPL / Pharox / Jaquar / Insta Power / Trinic / Kashyap / Anchor Panasonic / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	4300
		SOR 2015-2016 Deleted ELEC-3.9.23		Deleted
		LED STREET LIGHTS		
656	ELEC-3.9.22	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumens/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, external Surge protection $\geq 5\text{KV}$ with optics distribution , THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE MAKE :PHILIPS (GREEN LINE) / OSRAM / SCHREDER (BRIKA) / GE / VIN (STO) / CROMPTON (LEXUS+) / BAJAJ (EDGE+) / HALONIX (LUMOS - SUPER) / HAVELLS (ENDURA CITYLINER NEO) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.		
	ELEC-3.9.22 a	20W	1 No	4000
	ELEC-3.9.22 b	30W	1 No	4750
	ELEC-3.9.22 c	45W	1 No	7500
	ELEC-3.9.22 d	60W	1 No	9400

		SOR 2015-2016 Deleted ELEC-3.9.34		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.35		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.36		Deleted
657	ELEC-3.9.23	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumens/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, external Surge protection ≥ 5KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete . a) Luminaire Make : PHILIPS (ROAD STAR) / OSRAM / SCHREDER (VOLTANA / TECEO) / GE / VIN (MATRIX) / CROMPTON (OLYMPUS+) / BAJAJ (EDGE+) / HALONIX (MODULAR / LUMOS-SUPER) / HAVELLS (ENDURA CITYLINER / STYLO+) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.		
	ELEC-3.9.23 a	90W	1 No	17000
	ELEC-3.9.23 b	120W	1 No	21000
	ELEC-3.9.23 c	150W	1 No	24000
	ELEC-3.9.23 d	180W	1 No	27000
658	ELEC-3.9.24	Supply and transportation of .....LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumens/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, external Surge protection ≥ 5KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete, a) LUMINAIRE Makes: Wipro / Surya / Fortune Art / Syska / Capart/ GM / GreenLites / Gold Medal /Halonix / HPL / Pharox / Jaquar / Insta Power / Cosmo / Enrich / Trinic / Pasolite / Renesola. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.24 a	20W	1 No	3500
	ELEC-3.9.24 b	30W	1 No	4250
	ELEC-3.9.24 c	60W	1 No	8000

	ELEC-3.9.24 d	90W	1 No	12500
		SOR 2015-2016 Deleted ELEC-3.9.41		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.42		Deleted
659	ELEC-3.9.25	Supply and transportation of LED Street light Luminaire made of pressure diecast aluminium body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, external Surge protection ≥ 5KV with optics distribution Type II medium, THD<10% at 110 Volts AC, driver efficiency >90%, w, CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE Makes: KRIPA Lights / SEMTRONICS / VRILISO / Stanjo / Prolite. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.25 a	20W	1 No	3250
	ELEC-3.9.25 b	30W	1 No	3750
	ELEC-3.9.25 c	60W	1 No	5750
		SOR 2015-2016 Deleted ELEC-3.9.46		Deleted
		FLOOD LIGHTS		
660	ELEC-3.9.26	Supply and transportation of LED Flood light Luminaire made of pressure diecast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, external Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE MAKE : PHILIPS / GE / CROMPTON / BAJAJ / VIN / HAVELLS / Renesola b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.26 a	50W	1 No	7500
	ELEC-3.9.26 b	90W	1 No	13500
	ELEC-3.9.26 c	120W	1 No	18000

	ELEC-3.9.26 d	150W	1 No	20000
	ELEC-3.9.26 e	200W	1 No	32000
		SOR 2015-2016 Deleted ELEC-3.9.49		Deleted
661	ELEC-3.9.27	Supply and transportation of LED Flood light Luminaire made of pressure diecast aluminium housing with powder coated, having toughened glass cover input voltage range of 100 to 270 volts AC, power factor > 0.90, high power LED's having efficacy 120 lumines/watt and junction temperature < 85 degree centegrade of IP 65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), with optics, total harmonic distortion less than 10% at 110 Volts AC, driver efficiency >90% etc., complete a) LUMINAIRE Makes: Surya / Fortune Art / Syska / Capart / GreenLites / Halonix / HPL / Pharox / Insta Power / Cosmo / Enrich / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.27 a	50W	1 No	6500
	ELEC-3.9.27 b	90W	1 No	12000
	ELEC-3.9.27 c	120W	1 No	15000
		SOR 2015-2016 Deleted ELEC-3.9.53		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.54		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.55		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.56		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.57		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.58		Deleted
		SOR 2015-2016 Deleted ELEC-3.9.59		Deleted
		HIGH BAY LIGHTS		
662	ELEC-3.9.28	Supply and transportation of LED High Bay Luminaire with high power COB LED made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, IK05, Driver surge protection 4KV, external Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE MAKE : PHILIPS / GE /CROMPTON / BAJAJ / VIN / HAVELLS / RENESOLA. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		

	ELEC-3.9.28 a	60W		11000
	ELEC-3.9.28 b	90W		15000
	ELEC-3.9.28 c	120W		17000
	ELEC-3.9.28 d	150W		20000
663	ELEC-3.9.29	Supply and transportation of LED High Bay Luminaire with high power COB LED made of pressure diecast aluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingrees protection IP65, IK05, Driver surge protection 4KV, external Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE Makes: Surya / Fortune Art / Syska / Capart / GreenLites / Halonix / HPL / Pharox / Insta Power / Cosmo / Stanjo. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	ELEC-3.9.29 a	60W		9500
	ELEC-3.9.29 b	90W		12000
	ELEC-3.9.29 c	120W		15000
		LED DRIVERS		
664	ELEC-3.9.30	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 6/9 W LED down lighter with 2 Years Warranty.	1 No	250
665	ELEC-3.9.31	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 12 / 18 W LED down lighter with 2 Years Warranty.	1 No	375
666	ELEC-3.9.32	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 36W, 2'x2' panel light with 2 Years Warranty.	1 No	580
667	ELEC-3.9.33	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection more than 2.5 KV, IP20, suitable for 40/45W, 2'x2' panel light with 2 Years Warranty.	1 No	700

668	ELEC-3.9.34	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 15-30W, LED street light fitting with 2 Years Warranty.	1 No	420
669	ELEC-3.9.35	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 45-80W, LED street light fitting with 2 Years Warranty.	1 No	890
670	ELEC-3.9.36	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec 13)..2012 with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for 90-180W, LED street light fitting with 2 Years Warranty.	1 No	1700
	3.10	INDUCTION LUMINARIES		
		SOR 2015-2016 Deleted ELEC-3.10.1		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.2		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.3		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.4		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.5		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.6		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.7		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.8		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.9		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.10		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.11		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.12		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.13		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.14		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.15		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.16		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.17		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.18		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.19		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.20		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.21		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.22		Deleted
		SOR 2015-2016 Deleted ELEC-3.10.23		Deleted

		SOR 2015-2016 Deleted ELEC-3.10.24		Deleted
		SECTION - 4		
	4.1	U.G. CABLES		
671	ELEC-4.1.1	Supply of 4 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	92
672	ELEC-4.1.2	Supply of 4 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	78
673	ELEC-4.1.3	Supply of 4 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Delton / Payal / Gemscab.	1 RM	74
674	ELEC-4.1.4	Supply of 6 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	108
675	ELEC-4.1.5	Supply of 6 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	93
676	ELEC-4.1.6	Supply of 6 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Delton / Payal / Gemscab.	1 RM	87
677	ELEC-4.1.7	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	129
678	ELEC-4.1.8	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	112
679	ELEC-4.1.9	Supply of 10 Sqmm 2 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Delton / Payal / Gemscab.	1 RM	104

680	ELEC-4.1.10	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	130
681	ELEC-4.1.11	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	112
682	ELEC-4.1.12	Supply of 6 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Delton / Payal / Gemscab.	1 RM	104
683	ELEC-4.1.13	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	147
684	ELEC-4.1.14	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	128
685	ELEC-4.1.15	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	118
686	ELEC-4.1.16	Supply of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	162
687	ELEC-4.1.17	Supply of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	140
688	ELEC-4.1.18	Supply of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) of Makes: Delton / Payal / Gemscab.	1 RM	131
689	ELEC-4.1.19	Supply of 25 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	207

690	ELEC-4.1.20	Supply of 25 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	180
691	ELEC-4.1.21	Supply of 25 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	166
692	ELEC-4.1.22	Supply of 35 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	247
693	ELEC-4.1.23	Supply of 35 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	212
694	ELEC-4.1.24	Supply of 35 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	197
695	ELEC-4.1.25	Supply of 50 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	326
696	ELEC-4.1.26	Supply of 50 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	280
697	ELEC-4.1.27	Supply of 50 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Delton / Payal / Gemscab.	1 RM	261
698	ELEC-4.1.28	Supply of 70 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	421
699	ELEC-4.1.29	Supply of 70 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	363

700	ELEC-4.1.30	Supply of 70 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	337
701	ELEC-4.1.31	Supply of 95 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	547
702	ELEC-4.1.32	Supply of 95 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	472
703	ELEC-4.1.33	Supply of 95 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	439
704	ELEC-4.1.34	Supply of 120 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 RM	669
705	ELEC-4.1.35	Supply of 120 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Orbit.	1 RM	579
706	ELEC-4.1.36	Supply of 120 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Delton / Payal / Gemscab.	1 RM	537
707	ELEC-4.1.37	Supply of 150 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Torent / Universal / Unicab / Havells / KEI	1 RM	762
708	ELEC-4.1.38	Supply of 150 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Polycab / RPG / Finolex / Finecab / Gloster / Paragon / V-Guard	1 RM	658
709	ELEC-4.1.39	Supply of 150 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Fortune Art / Suncab / Delton / Payal / Gemscab / Orbit	1 RM	613
710	ELEC-4.1.40	Supply of 185 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification	1 RM	934

		confirming to IS:7098 (Part - I) . Makes : Torent / Universal / Unicab / Havells / KEI		
711	ELEC-4.1.41	Supply of 185 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I). Makes : Polycab / RPG / Finolex / Finecab / Gloster / V-Guard.	1 RM	806
712	ELEC-4.1.42	Supply of 240 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) . Makes : Torent / Universal / Unicab / Havells / KEI	1 RM	1185
713	ELEC-4.1.42	Supply of 240 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Polycab / RPG / Finolex / Finecab / Gloster	1 RM	1023
714	ELEC-4.1.44	Supply of 300 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Torent / Universal / Unicab / Havells / KEI	1 RM	1449
715	ELEC-4.1.45	Supply of 300 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Polycab / RPG / Finolex / Finecab / Gloster	1 RM	1251
716	ELEC-4.1.46	Supply of 400 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) . Makes : Torent / Universal / Unicab / KEI	1 RM	1815
717	ELEC-4.1.47	Supply of 400 Sqmm 3.5 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) Makes : Polycab / RPG / Finolex / Finecab / Gloster	1 RM	1568
		11 KV H.T. XLPE CABLES		
		SOR 2015-2016 Deleted ELEC-4.1.48		Deleted
		SOR 2015-2016 Deleted ELEC-4.1.49		Deleted
		SOR 2015-2016 Deleted ELEC-4.1.50		Deleted
		SOR 2015-2016 Deleted ELEC-4.1.51		Deleted
718	ELEC-4.1.48	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: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 No	1104
719	ELEC-4.1.49	Supply of 3 Core 11 KV 150 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes: Torent / Universal / Unicab / Havells / KEI / Gloster	1 No	1248

		/ Polycab		
720	ELEC-4.1.50	Supply of 3 Core 11 KV 185 Sqmm HT XLPE (E) armoured Cable, as per IS specification confirming to IS 7098/II/85 with latest ammendments. Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab	1 No	1475
	4.2	CABLE GLANDS		
721	ELEC-4.2.1	Supply and Fixing of Single compression brass cable glands for 3.5 core XLPE armoured cable for 185Sqmm with brass washers complete.	1 No	327
722	ELEC-4.2.2	Supply and Fixing of Single compression brass cable glands for 3.5 core XLPE armoured cable for 240Sqmm with brass washers complete.	1 No	491
723	ELEC-4.2.3	Supply and Fixing of Single compression brass cable glands for 3.5 core XLPE armoured cable for 300Sqmm with brass washers complete.	1 No	578
724	ELEC-4.2.4	Supply and Fixing of Single compression brass cable glands for 3.5 core XLPE armoured cable for 400Sqmm with brass washers complete.	1 No	654
725	ELEC-4.2.5	Supply and Fixing 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
726	ELEC-4.2.6	Supply and Fixing 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
727	ELEC-4.2.7	Supply and Fixing 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
	4.3	LUGS		
728	ELEC-4.3.1	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1 No	22
729	ELEC-4.3.2	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1 No	30
730	ELEC-4.3.3	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1 No	33
731	ELEC-4.3.4	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1 No	40
732	ELEC-4.3.5	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1 No	55

733	ELEC-4.3.6	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1 No	65
700034	ELEC-4.3.7	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1 No	88
735	ELEC-4.3.8	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.	1 No	104
736	ELEC-4.3.9	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1 No	149
737	ELEC-4.3.10	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1 No	215
738	ELEC-4.3.11	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1 No	284
739	ELEC-4.3.12	Supply and fixing of crimping type copper lugs confirming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1 No	418
740	ELEC-4.3.13	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections.	1 No	12
741	ELEC-4.3.14	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 25 Sq.mm including nuts and bolts with connections.	1 No	14
742	ELEC-4.3.15	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 35 Sq.mm including nuts and bolts with connections.	1 No	17
743	ELEC-4.3.16	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 50 Sq.mm including nuts and bolts with connections.	1 No	20
744	ELEC-4.3.17	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 70 Sq.mm including nuts and bolts with connections.	1 No	25
745	ELEC-4.3.18	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 95 Sq.mm including nuts and bolts with connections.	1 No	27
746	ELEC-4.3.19	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 120 Sq.mm including nuts and bolts with connections.	1 No	35
747	ELEC-4.3.20	Supply and fixing of crimping type aluminium lugs	1 No	40

		confirming to I.S specifications for cable of 150 Sq.mm including nuts and bolts with connections.		
748	ELEC-4.3.21	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 185 Sq.mm including nuts and bolts with connections.	1 No	46
749	ELEC-4.3.22	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 240 Sq.mm including nuts and bolts with connections.	1 No	71
750	ELEC-4.3.23	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 300 Sq.mm including nuts and bolts with connections.	1 No	92
751	ELEC-4.3.24	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable of 400 Sq.mm including nuts and bolts with connections.	1 No	119
	4.4	HEAT SHRINKABLE LT CABLE JOINTS		
752	ELEC-4.4.1	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable of seamless type outer tubing with necessary accessories and suitable clamps including cost and conveyance of materials complete for 10 to 16 Sqmm. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	1300
753	ELEC-4.4.2	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable of seamless type outer tubing with necessary accessories and suitable clamps including cost and conveyance of materials complete for 25 to 50 Sqmm. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang..	1 No	1545
754	ELEC-4.4.3	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable of seamless type outer tubing complete with necessary accessories and suitable clamps including cost and conveyance of materials complete for 70 to 185 Sqmm. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	2230
755	ELEC-4.4.4	Supply and erecting heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable of seamless type outer tubing with necessary accessories and suitable clamps including cost and conveyance of materials and all labour charges etc., complete for 240 to 300 Sqmm. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	4000
756	ELEC-4.4.5	Supply of heat shrinkable straight through joint Indoor / Out door for L.T. XLPE Armoured 1100V grade cable of seamless type outer tubing with necessary accessories and suitable clamps including cost and conveyance of	1 No	5425

		materials complete for 400 Sqmm. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang..		
		3 CORE 11 KV HT CABLE STRAIGHT THROUGH JOINTS		
757	ELEC-4.4.6	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade of seamless type outer tubing 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. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang..	1 No	15070
758	ELEC-4.4.7	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade of seamless type outer tubing 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. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	18095
759	ELEC-4.4.8	Providing and erecting heat shrinkable straight through joint out door / indoor for H.T, XLPE Insulated armoured cable 11000V grade of seamless type outer tubing 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. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang..	1 No	23018
		HT END TERMINATION KITS		
760	ELEC-4.4.9	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 70 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	8200
761	ELEC-4.4.10	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	8400
762	ELEC-4.4.11	Providing and erecting heat shrinkable indoor termination kit for 11 KV XLPE HT cable 3 core 150 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	8900
763	ELEC-4.4.12	Providing and erecting heat shrinkable outdoor termination	1 No	12400

		kit for 11 KV XLPE HT cable 3 core 70 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.		
764	ELEC-4.4.13	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 120 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	12700
765	ELEC-4.4.14	Providing and erecting heat shrinkable outdoor termination kit for 11 KV XLPE HT cable 3 core 150 Sqmm with Anti Tracking Red colour material etc., complete. Makes: Raychem / M Seal / Denson / Multy / Transeal - Hongshang.	1 No	13750
	4.5	DOUBLE WALLED CORRUGATED HDPE PIPE		
766	ELEC-4.5.1	Supply and Transportation of Outer dia 50mm and Inner dia 38mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	90
767	ELEC-4.5.2	Supply and Transportation of Outer dia 63mm and Inner dia 51mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	120
768	ELEC-4.5.3	Supply and Transportation of Outer dia 78mm and Inner dia 63mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	145
769	ELEC-4.5.4	Supply and Transportation of Outer dia 90mm and Inner dia 76mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	152
770	ELEC-4.5.5	Supply and Transportation of Outer dia 120mm and Inner dia 103.50mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	240
771	ELEC-4.5.6	Supply and Transportation of Outer dia 160mm and Inner dia 136mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	360
772	ELEC-4.5.7	Supply and Transportation of Outer dia 180mm and Inner dia 152mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make.	1 RM	470
773	ELEC-4.5.8	Supply and Transportation of Outer dia 200mm and Inner dia 170mm double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II.	1 RM	576

		Makes:DURA LINE (Dura Guard) or its equivalent make.		
	4.6	CABLE TRAYS		
774	ELEC-4.6.1	Supply and Installation of 600mm x 75mm x 2mm thick hot dip GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	1275
775	ELEC-4.6.2	Supply and Installation of 600mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	925
776	ELEC-4.6.3	Supply and Installation of 450mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	825
777	ELEC-4.6.4	Supply and Installation of 300mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	700
778	ELEC-4.6.5	Supply and Installation of 150mm x 50mm x 2mm thick GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	390
779	ELEC-4.6.6	Supply and Installation of 150mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	200
780	ELEC-4.6.7	Supply and Installation of 300mm x 50mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	300
781	ELEC-4.6.8	Supply and Installation of 600mm x 75mm x 2mm thick GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.	1 RM	550
		Note: Perforated cable trays provided without cover 30% may be deducted from above rates.		
		SECTION - 5		

	5.1	FANS		
782	ELEC-5.1.1	Supply of 48" (1200mm) Sweep ISI mark Ceiling Fan as per IS 374 - 1979 and, with double ball bearings, power input not more than 50W , air delivery more than 200 cubic meter/min but without Regulator. Makes : Crompton / Bajaj Kassels 50 / Usha atom	1 No	1700
783	ELEC-5.1.2	Supply of 48" (1200mm) Sweep , 5 Star rated Ceiling Fan, with double ball bearings without Regulator. Makes: Crompton HS Decora / Bajaj Regal Star / Havells Fusion 50 / Orient summer crown / Usha technix decorative	1 No	2150
		SOR 2015-2016 Deleted ELEC-5.1.3		Deleted
		SOR 2015-2016 Deleted ELEC-5.1.4		Deleted
		SOR 2015-2016 Deleted ELEC-5.1.5		Deleted
		SOR 2015-2016 Deleted ELEC-5.1.6		Deleted
784	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	1775
785	ELEC-5.1.4	Supply of 56" (1400mm) Sweep 5 Star rated Ceiling Fan without Regulator Makes: Crompton / Bajaj Elegance Star / Usha / Havells.	1 No	2150
786	ELEC-5.1.5	Supply of 16" (400mm) Wall mounted Fan. Makes: Crompton SDX Gold / Bajaj Elite / Havells Swing Premia gold / Usha / Orient Wall 43.	1 No	2350
787	ELEC-5.1.6	Supply of 16" (400mm) Pedestal Fan. Makes: Crompton SDX Gold / Bajaj Spectrum / Havells Swing Remote / Usha / Orient.	1 No	2700
788	ELEC-5.1.7	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators. Makes: Crompton / Havells Turbo Force / Orient / Almounard.	1 No	6000
789	ELEC-5.1.8	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators. Makes: Crompton / Havells Turbo Force / Almounard.	1 No	6600
790	ELEC-5.1.9	Supply of 12" (300mm) Cabin fan. Makes: Crompton / Havells ciera / Orient AP12.	1 No	1550
791	ELEC-5.1.10	Supply of 12" (300mm) Light duty exhaust fan with metalic blades and wire guard etc complete. Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DB / Orient hill air / MIIT.	1 No	1350

792	ELEC-5.1.11	Supply of 9" (225mm), Light duty exhaust fan with double ball bearing and wire guard etc complete. Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DS / Orient hill air / MIIT.	1 No	1250
793	ELEC-5.1.12	Supply of 12" (300mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force.	1 No	2600
794	ELEC-5.1.13	Supply of 15" (375mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force	1 No	3200
795	ELEC-5.1.14	Supply of 18" (450mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force	1 No	4100
	5.2	WATER HEATERS		
796	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 nylon / PVC / Metallic hose pipe, testing and all labour charges etc., complete. Makes: Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / Usha / V-Guard / Havells.	1 No	9300
797	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 nylon / PVC / Metallic hose pipe, testing and all labour charges etc., complete. Makes: Crompton model No. solarium plus SWH 725, Class 1 rated or its equivalent make of Bajaj / Venus / Racold / Usha / V-Guard / Havells	1 No	10900
	5.3	ACCESSORIES FOR WATER HEATERS		
798	ELEC-5.3.1	Heating element of 1.5 / 2.0 / 3.0 KW.	1 No	400
799	ELEC-5.3.2	Supply of thermostat with range 30° to 90°C.Adjustable and suitable for 25 to 50 Ltrs. Capacity.	1 No	275
800	ELEC-5.3.3	Supply of pressure release valve for water heater of 15 to 50 Ltrs.capacity.	1 No	275
801	ELEC-5.3.4	Flexible Nylon / PVC Metallic hose pipe	1 No	165
	5.4	STARTERS FOR MOTORS		

802	ELEC-5.4.1	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS encloser comprising of contactor with bi-metallic relay with necessary push buttons, etc., complete. Makes: Siemens / Crompton / L&T.	1 No	780
803	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.	1 No	1450
		SOR 2015-2016 Deleted ELEC-5.4.3		Deleted
804	ELEC-5.4.3	Supply & Fixing of D.O.L Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil, overload protection and single phase preventor , etc., complete suitable upto 10.0.HP. Makes: Siemens / Crompton / L&T.	1 No	2490
		SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS AS PER IS 9283 : 2013		
805	ELEC-5.4.4	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
806	ELEC-5.4.5	Supply and Transportation of 0.75HP 8 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	14000
807	ELEC-5.4.6	Supply and Transportation of 1.00HP 10 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	16800
808	ELEC-5.4.7	Supply and Transportation of 1.00HP 10 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	16000
809	ELEC-5.4.8	Supply and Transportation of 1.00HP 15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	17325
810	ELEC-5.4.9	Supply and Transportation of 1.00HP 15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	16500
811	ELEC-5.4.10	Supply and Transportation of 1.50HP 21 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha	1 No	21000

		/ Lubi.		
812	ELEC-5.4.11	Supply and Transportation of 1.50HP 21 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	20000
813	ELEC-5.4.12	Supply and Transportation of 2.00HP 25 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	25200
814	ELEC-5.4.13	Supply and Transportation of 2.00HP 25 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	24000
815	ELEC-5.4.14	Supply and Transportation of 3.00HP 10-15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	22000
816	ELEC-5.4.15	Supply and Transportation of 3.00HP 10-15 Stage single phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	20000
		STAR RATED THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.		
817	ELEC-5.4.16	Supply and Transportation of 3.00HP 20-23 Stage, 3 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	28000
818	ELEC-5.4.17	Supply and Transportation of 3.00HP 20-23 Stage, 3 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	25200
819	ELEC-5.4.18	Supply and Transportation of 3.00HP 30- 35 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	35000
820	ELEC-5.4.19	Supply and Transportation of 3.00HP 30- 35 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4"	1 No	31500

		Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen		
821	ELEC-5.4.20	Supply and Transportation of 5.00HP 35 - 40 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	40000
822	ELEC-5.4.21	Supply and Transportation of 5.00HP 35 - 40 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	36000
823	ELEC-5.4.22	Supply and Transportation of 5.00HP 45 - 50 Stage , 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	43000
824	ELEC-5.4.23	Supply and Transportation of 5.00HP 45 - 50 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	38700
825	ELEC-5.4.24	Supply and Transportation of 5.00HP 55 - 60 Stage , 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	45000
826	ELEC-5.4.25	Supply and Transportation of 5.00HP 55 - 60 ,Stage , 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	40500
827	ELEC-5.4.26	Supply and Transportation of 6.00HP 15 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	42000
828	ELEC-5.4.27	Supply and Transportation of 6.00HP 15 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	37800

829	ELEC-5.4.28	Supply and Transportation of 7.5 HP 20 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	50000
830	ELEC-5.4.29	Supply and Transportation of 7.5 HP 20 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	45000
831	ELEC-5.4.30	Supply and Transportation of 10 HP 25 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	60000
832	ELEC-5.4.31	Supply and Transportation of 10 HP 25 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	54000
833	ELEC-5.4.32	Supply and Transportation of 15 HP 27 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	65000
834	ELEC-5.4.33	Supply and Transportation of 15 HP 27 Stage , 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	58500
835	ELEC-5.4.34	Supply and Transportation of 20 HP 30 Stage, 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	75000
836	ELEC-5.4.35	Supply and Transportation of 20 HP 30 Stage , 5 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	67500
		SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS AS PER IS 14220 : 1994		

837	ELEC-5.4.36	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
838	ELEC-5.4.37	Supply and Transportation of 1.00HP Single phase open well ISI submersible motor pumpset. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	11000
839	ELEC-5.4.38	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
840	ELEC-5.4.39	Supply and Transportation of 1.50HP Single phase open well ISI submersible motor pumpset. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	12500
841	ELEC-5.4.40	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
842	ELEC-5.4.41	Supply and Transportation of 3.00HP Single phase open well ISI submersible motor pumpset. Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	17000
		THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS AS PER IS 14220 : 1994		
843	ELEC-5.4.42	Supply and Transportation of 3.00HP Three phase open well ISI submersible motor pumpset.(65x50) Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	17850
844	ELEC-5.4.43	Supply and Transportation of 3.00HP Three phase open well ISI submersible motor pumpset.(65x50) Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	17000
845	ELEC-5.4.44	Supply and Transportation of 5.00HP Three phase open well ISI submersible motor pumpset.(75x65) Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	22050
846	ELEC-5.4.45	Supply and Transportation of 5.00HP Three phase open well ISI submersible motor pumpset.(75x65) Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	21000

847	ELEC-5.4.46	Supply and Transportation of 7.50HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	26250
848	ELEC-5.4.47	Supply and Transportation of 7.50HP Three phase open well ISI submersible motor pumpset.(100x75) MMakes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	25000
849	ELEC-5.4.48	Supply and Transportation of 10.00HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	33600
850	ELEC-5.4.49	Supply and Transportation of 10.00HP Three phase open well ISI submersible motor pumpset.(100x75) Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	32000
		SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.		
851	ELEC-5.4.50	Supply and Transportation of 0.5HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Havells Hi-flow V2 / Aryan Varsha.	1 No	5145
852	ELEC-5.4.51	Supply and Transportation of 0.5HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	4900
853	ELEC-5.4.52	Supply and Transportation of 1.0HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Havells Hi-flow V2 / Aryan Varsha.	1 No	7455
854	ELEC-5.4.53	Supply and Transportation of 1.0HP Single phase ISI Mono block CI body motor pumpset (25x25mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	7100
855	ELEC-5.4.54	Supply and Transportation of 1.5HP Single phase ISI Mono block CI body motor pumpset (32x25mm). Makes: Kirloskar / Crompton / Texmo / CRI / KSB / Aryan Varsha.	1 No	9975
856	ELEC-5.4.55	Supply and Transportation of 1.5HP Single phase ISI Mono block CI body motor pumpset (32x25mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	9500

857	ELEC-5.4.56	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.	1 No	12600
858	ELEC-5.4.57	Supply and Transportation of 1.02HP Single phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	12000
859	ELEC-5.4.58	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.	1 No	14700
860	ELEC-5.4.59	Supply and Transportation of 2.00HP Three phase ISI self priming Mono block IP44 motor pumpset (40x40mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar / Unnati Zen	1 No	14000
861	ELEC-5.4.60	Supply and Transportation of 3.00HP Three phase ISI self priming Mono block IP44 motor pumpset (50x50mm). Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	19950
862	ELEC-5.4.61	Supply and Transportation of 3.00HP Three phase ISI self priming Mono block IP44 motor pumpset (50x50mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	19000
863	ELEC-5.4.62	Supply and Transportation of 5.00HP Three phase ISI self priming Mono block IP44 motor pumpset (80x80mm). Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1 No	24150
864	ELEC-5.4.63	Supply and Transportation of 5.00HP Three phase ISI self priming Mono block IP44 motor pumpset (80x80mm). Makes: Plugra / U-Neel / Sterling / Falcon / Flowell / Waterman / Kumar	1 No	23000
		CONTROL PANEL BOARD FOR MOTORS		
865	ELEC-5.4.64	Fabrication , transportation and supply of suitable size panel board for single phase submersible motor up to 1.5 HP consisting of relay, Contactor, starting and running capacitors, Voltmeter, Ammeter, indicator lamps, MCB , on/off switch. Makes: LT / LK / BCH / Crompton/ Siemens.	1 No	4800
866	ELEC-5.4.65	Fabrication , transportation and supply of suitable size panel board for single phase submersible motor above 2 Hp to 3 HP consisting of relay, Contactor, starting and running capacitors, Voltmeter, Ammeter, indicator lamps, MCB , on/off switch. Makes; LT / LK / BCH / Crompton/ Siemens.	1 No	5500

867	ELEC-5.4.66	Supply of 32mm dia PE 80 Grade material 12.5 kg / Cm2 ISI Mark HDPE pipe upto 600 feet Makes : Sudhakar / Reliance / Duroline / Premier / Vijaya / Godavari.	1 Mtr	100
868	ELEC-5.4.67	Supply of 40mm dia PE 80 Grade material 16 kg / Cm2 ISI Mark HDPE pipe above 600 feet to 1000 feet Makes : Sudhakar / Reliance / Duroline / Premier / Vijaya / Godavari.	1 Mtr	160
869	ELEC-5.4.68	Supply of 40mm dia PE 80 Grade material 20 kg / Cm2 ISI HDPE pipe above 1000 feet Makes : Sudhakar / Reliance / Duroline / Premier / Vijaya / Godavari.	1 Mtr	180
870	ELEC-5.4.69	Supply and fixing of 32mm x 25mm dia stainless steel Nipple.	1 No	150
871	ELEC-5.4.70	Supply and fixing of 40mm x32mm dia stainless steel Nipple.	1 No	175
872	ELEC-5.4.71	Supply and fixing of 50mm x 40mm dia stainless steel Nipple	1 No	375
873	ELEC-5.4.72	Supply and fixing of MS clamp set (2 Nos) suitable for 32mm dia pipe with 8Nos nut & bolts	1 No	950
874	ELEC-5.4.73	Supply and fixing of MS clamp set (2 Nos) suitable for 40mm dia pipe with 8Nos nut & bolts	1 No	1200
875	ELEC-5.4.74	Supply and fixing of 32mm dia brass Non return valve ISI make	1 No	500
876	ELEC-5.4.75	Supply and fixing of 40mm dia brass Non return valve ISI make	1 No	750
877	ELEC-5.4.76	Supply and delivery of wall mounted control panel board of size 600x600x250mm made of 18 SWG CRCA sheet steel enclosure, 14 SWG mounting plate for cable entry fabricated , painted with two coats of Red oxide primer and two coats of Grey paint, lock and key arrangements two side lovures with weld mesh inside etc., complete consisting of the following equipment with all internal wiring using L&T / Finolex copper FRLS cables of suitable size and capacity and cable clamp etc complete for 3 phase motor pump sets.		
	a	Voltmeter ; 0-500 V 96x96mm size. Makes: L&T / C&S / SALZAR / HPL/ AEI / Mecro / Rishab - 1No		
	b	0 to 20 Amps / 0 50 Amps Ammeter (96x96mm size). Makes: L&T / C&S / SALZAR / HPL/ AEI / Mecro / Rishab-1No.		
	c	Single phase preventor of suitable range Makes: L&T / Minilec / Powertec. - 1No.		

	d	TP, 10KA MCB. Makes: Legrand / Schneider / - 1No		
	e	Indication lamps (R-Y-B) with switch control - 1set		
	f	Voltmeter & Ammeter selector switch - 2 Nos		
	g	Supply and delivery of ISI Mark capacitor Makes: L&T / Siemens / Schneider / Epcos.		
878	ELEC-5.4.77	.....do..... Upto 7.5 HP with DOL Starter. Makes: Crompton / L&T / Siemens.	1 No	8000
879	ELEC-5.4.78	.....do.....Above 7.5 HP up to 15 HP with Automatic Star Delta Starter. Makes: Crompton / L&T / Siemens.	1 No	12000
880	ELEC-5.4.79	.....do.....Above 15 HP up to 20 HP with Automatic Star Delta Starter. Makes: Crompton / L&T / Siemens.	1 No	16000
881	ELEC-5.4.80	Supply and fixing of Push type button motor starter for A.C Units including internal connection and labour charges for Flush Mounting etc., complete Makes: Legrand	1 No	799
	5.5	REPAIRS TO AIR CONDITIONERS, SPLIT, CASSETTE AND TOWER MODEL AIR CONDITIONERS		
	I.	REPAIRS TO AIR CONDITIONERS,		
882	ELEC-5.5.1	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1 Set	1000
883	ELEC-5.5.2	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air-Conditioner including foaming etc., complete.		
	ELEC-5.5.2 a	1.3/4" x 3/8"	1 Mtr	1000
	ELEC-5.5.2 b	2. 5/8" x 1/4"	1 Mtr	1000
	ELEC-5.5.2 c	3. 1/2" x 1/4"	1 Mtr	1000
	ELEC-5.5.2 d	4. 7/8" x 1/2"	1 Mtr	1200
	ELEC-5.5.2 e	5. 1 1/8" x 5/8"	1 Mtr	1500
884	ELEC-5.5.3	Supply of 1.0 / 1.5 Ton brand new Rotary type sealed compressor.	1 No	8150
885	ELEC-5.5.4	Supply of 2.0 Ton brand new Rotary type sealed compressor.	1 No	9250
886	ELEC-5.5.5	Multi speed Fan Motor suitable for 1.0 / 1.5 / 2.0 Ton Window A.C.Unit Makes : Crompton / AU.	1 No	1590

887	ELEC-5.5.6	Fan motor capacitor 6 mfd by new capacitor for A.C machine of 1.0 1.5 / Ton Capacity. Make: Siemens / Crompton / L&T / Tibcon	1 No	156
888	ELEC-5.5.7	Thermostat switch suitable for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1 No	410
889	ELEC-5.5.8	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. Make: Siemens / Crompton / L&T / Tibcon	1 No	189
890	ELEC-5.5.9	Running capacitor of 36 mfd by new approved make capacitor suitable for compressor motor of 1.0 / 1.5 Ton A.C.Unit. Make: Siemens / Crompton / L&T / Tibcon	1 No	242
891	ELEC-5.5.10	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
892	ELEC-5.5.11	Filter and capillary tube including welding etc., complete for 1.0 / 1.5 / 2.0 Ton A.C.Unit.	1 No	485
893	ELEC-5.5.12	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1 No	225
894	ELEC-5.5.13	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1 No	475
895	ELEC-5.5.14	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	341
896	ELEC-5.5.15	Overhauling and servicing the Window type 1.0 / 1.5 Ton A.C. Machine by 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	368
897	ELEC-5.5.16	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1 No	560
898	ELEC-5.5.17	Grill of 1.0 / 1.5 ton A.C. Machine (for assembled Units).	1 No	427
899	ELEC-5.5.18	Grill of 1.0 / 1.5 ton A.C. Machine of branded units.	1 No	1700
900	ELEC-5.5.19	Rotary / Selector switch by new one.	1 No	115
901	ELEC-5.5.20	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
902	ELEC-5.5.21	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
903	ELEC-5.5.22	Spray painting of Refrigerator using good quality paint after scraping the surface etc.	1 No	720
904	ELEC-5.5.23	New sealed compressor of 1/8 HP suitable for 165 to 185 Ltrs. Capacity Refrigerator.	1 No	3100

905	ELEC-5.5.24	Sealed compressor of 1/6 HP suitable for 285 / 310 Ltrs. Capacity Refrigerator.	1 No	3750
906	ELEC-5.5.25	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
907	ELEC-5.5.26	Bush for fan motor of 80-150 Ltrs.	1 No	125
908	ELEC-5.5.27	Resistance type regulator for ceiling fans 900/1200/1400mm sweep complete erected on existing board.	1 No	40
909	ELEC-5.5.28	Installation of Split Air Conditioners.	1 No	1500
910	ELEC-5.5.29	Removing of existing Split Air Conditioners without damaging to copper pipe.	1 No	500
911	ELEC-5.5.30	Installation of Cassette type Split Air Conditioners.	1 No	3000
912	ELEC-5.5.31	Installation of Tower type Split Air Conditioners.	1 No	2000
913	ELEC-5.5.32	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of Casseete AC unit.	1 Set	1500
		SOR 2015-2016 Deleted ELEC-5.5.33		Deleted
		SOR 2015-2016 Deleted ELEC-5.5.34		Deleted
	II.	AIR CONDITIONERS		
914	ELEC-5.5.33	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 and 4 mts of 3 core copper flexible cable between indoor and outdoor units including built-in stabilizer (Voltage range 160- 264 volts) and cordless remote control etc complete.		
		1.5TR Split ACs		
	ELEC-5.5.33 a	.....do..... 1.5 TR 3 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-22 / R-410A Makes: Mitsubishi SRIC 18 CS-S6 / Carrier Superia	1 No	42990
	ELEC-5.5.33 b	.....do..... 1.5 TR 3 Star capable of delivering 18000 BTU / hr and above with operating on refrigerant R-22 / R-410A Makes: Daikin FTE-M or N Sereis / Blue Star 3HW18JBX3 / Toshiba RAS18S3KS-IN / Hitachi (Kazi+) / Voltas 183 PX-R.	1 No	39600
	ELEC-5.5.33 c	.....do..... 1.5 TR 5 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-22 / R-410A Makes: Mitsubishi SRK20CSS-6 or its equivalent model of Daikin or Toshiba	1 No	53000

	ELEC-5.5.33 d	.....do..... 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 Makes: Daikin FTF50QRV16 / Carrier Superia / Toshiba RAS18S3KPS-in	1 No	47000
		SOR 2015-2016 Deleted ELEC-5.5.39		Deleted
		1.8TR-2.1TR Split ACs		
	ELEC-5.5.33 e	.....do..... 1.8 / 2.0 TR 3 Star capable of delivering 21600 BTU/ hr and above with operating on refrigerant R-32 / R-410A with COP not less than 3.25 Makes: Daikin FTC60QRV16 / Carrier Duraedge / Blue Star 3HW24AU1 / Toshiba RAS-24S3KS-in	1 No	50200
		SOR 2015-2016 Deleted ELEC-5.5.41		Deleted
	ELEC-5.5.33 f	.....do..... 1.8 / 2.0 TR 4 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 / R-410A Makes: 'O' General / Daikin FTF60QRV16	1 No	56500
	ELEC-5.5.33 g	.....do...1.8 / 2.0 TR 5 Star capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 / R-410A Makes: Carrier Superia / Blue star 5HW24AAX1	1 No	54500
	ELEC-5.5.33 h	.....do..... 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 Makes: Daikin FTF60QRV16 or its equivalent of Mitsubishi	1 No	
		Inverter Split AC Unts (Cooling Only)		
915	ELEC-5.5.34	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		
	ELEC-5.5.34 a	.....do..... 1.5 TR capable of delivering 18000 BTU/ hr and above with operating on refrigerant R-410A / R-32 / R-22 Makes: O General model No. ASGA18JCC / Toshibha Model No. RAS-18N3KCV-IN	1 No	57000
	ELEC-5.5.34 b	.....do..... 1.5 TR capable of delivering 18000 BTU/hr and above with operating on refrigerant R-410A / R-32 / R-22 with COP not less than 3.8 Makes: 'Daikin Model No. FTKC50NVM / Blue Star 5CNHW18PAFU	1 No	56000
	ELEC-5.5.34 c	.....do..... 1.8 TR capable of delivering 21600 BTU/hr and above with operating on refrigerant R-410A / R-32 / R-	1 No	64000

		22 with COP not less than 3.6 w/w Makes: Daikin FTKD60 / Thosibha RAS22N3KCV-in		
	ELEC-5.5.34 d	.....do..... 2.0 TR capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 / R-22 Makes: 'O' General ASGA24JCC / Blue Star 5CNHW24PAFU	1 No	67000
		CASSETTE TYPE AC UNITS		
916	ELEC-5.5.35	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.		
	ELEC-5.5.35 a	.....do..... Single Phase R-22 / R-410A 1.8 / 1.9 / 2.0 TR Makes: Daikin FCRN60FXV16 / Carrier 40GKX-024RB / Blue Star 3SC24YGU1	1 No	77000
	ELEC-5.5.35 b	.....do.....2.9 / 3.0TR Three Phase capable of delivering 36000 BTU / hr and above with operating on refrigerant R-22 / R-410A Makes: 'O' Genral / Daikin FCRN90FXV16	1 No	110000
	ELEC-5.5.35 c	.....do..... 3.5TR Three Phase capable of delivering 42000 BTU/ hr and above with operating on refrigerant R-22 / R-410A Makes: 'O' General / Daikin FCRN100FXV16	1 No	128000
	ELEC-5.5.35 d	.....do..... 3.3TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-22 Makes: Daikin FHC40EXVI / R40DGXY1	1 No	
	ELEC-5.5.35 e	.....do..... 3.0 TR Three Phase capable of delivering 42000 BTU/ hr and above with operating on refrigerant R-22 / R-410A. Makes: Carrier 40GKX-036RB / Blue Star 5C36SGU2	1 No	105000
	ELEC-5.5.35 f	.....do..... 3.8TR Three Phase capable of delivering 48000 BTU/ hr and above with operating on refrigerant R-22 / R-410A Makes: Daikin FCRN125FXV16 / 'O' Genral	1 No	130000
	ELEC-5.5.35 g	.....do..... 4.0 TR Three Phase capable of delivering 48000 BTU/ hr and above with operating on refrigerant R-22 / R-410A . Makes: Carrier 40GKX-048RB / Blue Star SC48SGU2	1 No	118000
		SOR 2015-2016 Deleted ELEC-5.5.56		Deleted
		SOR 2015-2016 Deleted ELEC-5.5.57		Deleted
		SOR 2015-2016 Deleted ELEC-5.5.58		Deleted

		SOR 2015-2016 Deleted ELEC-5.5.59		Deleted
		TOWER MODEL TYPE AC UNITS		
917	ELEC-5.5.36	Supply of Slim line / Tower Model/Verticool type split AC unit with indoor unit and floor mounted outdoor condensing unit Hermetically sealed Scroll compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with cordless remote control		
	ELEC-5.5.36 a	.....do..... 3.0TR Three Phase capable of delivering 36000 BTU / hr and above with operating on refrigerant R-410A Makes: Carrier 40KFJ-036RT or its equivalent of Daikin or Blue Star	1 No	98000
	ELEC-5.5.36 b	.....do..... 3.3 / 3.5TR Three Phase capable of delivering 42000 BTU/hr and above with operating on refrigerant R-410A Makes: Daikin FVRN100AXV16 or its equivalent of Carrier or Blue Star	1 No	125000
		INVERTOR MODEL HEAT COOL SPLIT AC'S		
918	ELEC-5.5.37	Supply, transportation of 1.5 TR capacity (HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of capable of performing of cooling capacity 5.25KW and above and heating capacity 5.28 KW and above, Running current in cooling mode less than 7.19 Amps, & in Heating mode less than 6.53 Amps , Power Consumption in Cooling mode not more than 1635 W and in heating mode not more than 1490 W co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.54,dehumidifing Aircirculating and filtering with cooling and condensing unit duly insulated and 3 core copper flexible chord of required length etc with 2 years comprehensive warranty and 5 years warranty on compressor etc complete. Make: Daikin FTXS 50 FVMA / or its equivalent model of Toshiba / Mitsubishi / O General.	1 No	70000
		Indoor Unit a) Noise level: in Cooling mode not more than 44 DB(A)		
		b) Air flow rate: 16.1 to 10.6 meter cube per minute(570 to 375 cfm)		
		Out door Unit a) Noise level: In Cooling mode not more than 49 DB(A)		

919	ELEC-5.5.38	Supply, transportation of 1.8 / 2.0 TR capacity , (HEAT and COOL) high wall mounted indoor evaporator unit and outdoor condensing unit with Heat pump, cord less remote control and hermetically sealed rotary compressor operating on refrigerent R-410A suitable for operation on 230V, 50Hz, single phase A.C supply, capable of performing of cooling capacity 6.01KW and above and heating capacity 6.15 KW and above, Running current in cooling mode less than 8.26 Amps, & in Heating mode less than 7.99 Amps , Power Consumption in Cooling mode not more than 1870W and in heating mode not more than 1800 W, co-efficient of performance in cooling mode not less than 3.21 & in heating mode not less than 3.40, dehumidifying Aircirculating and filtering with cooling and condensing unit duly insulated and 3 core copper flexible chord of required length etc with 2 years comprehensive warranty and 5 years warranty on compressor etc complete. Make: Daikin Model No FTXS 60 JXVI or its equivalent model of Toshiba / Mitsubishi / O General	1 No	80000
		<u>Indoor</u> <u>Unit</u> a) Noise level: in Cooling mode not more than 48 DB(A)		
		b) Air flow rate: 18.2 to 11.8 meter cube per minute (641 to 418 cfm)		
		<u>Out door</u> <u>Unit</u> a) Noise level: In Cooling mode not more than 52 DB(A)		
		STABILIZERS		
920	ELEC-5.5.39	Supply of 0.5 KVA Stabilizer. Makes: V-Guard / Real Guard / Uni Stab / ITL.	1 No	990
921	ELEC-5.5.40	Supply of 0.5 KVA Stabilizer. Makes: Keeline / Soft Line / Capri.	1 No	810
922	ELEC-5.5.41	Supply of 1.0 KVA Stabilizer. Makes: V-Guard / Real Guard / Uni Stab / ITL.	1 No	1805
923	ELEC-5.5.42	Supply of 1.0 KVA Stabilizer. Makes: Keeline / Soft Line / Capri.	1 No	1615
924	ELEC-5.5.43	Supply of 3.0 KVA Stabilizer. Makes: V-Guard / Real Guard / Uni Stab / ITL.	1 No	2500
925	ELEC-5.5.44	Supply of 3.0 KVA Stabilizer. Makes: Keeline / Soft Line / Capri.	1 No	2300
926	ELEC-5.5.45	Supply of 4.0 KVA Stabilizer. Makes: V-Guard / Real Guard / Uni Stab / ITL.	1 No	3325
927	ELEC-5.5.46	Supply of 4.0 KVA Stabilizer. Makes: Keeline / Soft Line / Capri.	1 No	3135

928	ELEC-5.5.47	Supply of 5.0 KVA Stabilizer. Makes: V-Guard / Real Guard / Uni Stab / ITL.	1 No	4002
929	ELEC-5.5.48	Supply of 5.0 KVA Stabilizer. Makes: Keeline / Soft Line / Capri.	1 No	3806
	5.6	REPAIRS TO MOTORS AND REWINDING, BEARINGS		
930	ELEC-5.6.1	Bearing of approved make for electric motor single phase / 3 phase AC upto 1 HP of all types.	1 No	179
931	ELEC-5.6.2	Bearing of approved make for electric motor single phase / 3 phase AC upto 2 to 3 HP of all types.	1 No	231
932	ELEC-5.6.3	Bearing of approved make for electric motor single phase / 3 phase AC upto 5 to 7.5 HP of all types.	1 No	306
933	ELEC-5.6.4	Bearing of approved make for electric motor single phase / 3 phase AC upto 10 to 12.5 HP of all types.	1 No	319
934	ELEC-5.6.5	Bearing of approved make for electric motor single phase / 3 phase AC upto 15 to 20 HP of all types.	1 No	489
935	ELEC-5.6.6	Bearing of table / cabin / pedestal / ceiling / exhaust fan complete with alignment of shaft and tested.	1 No	92
936	ELEC-5.6.7	Bearing of bush / rubber / ring washers complete with alignment of shaft and tested.	1 No	44
937	ELEC-5.6.8	Capacitor of table / cabin / pedestal / ceiling / exhaust fan complete.	1 No	42
938	ELEC-5.6.9	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	700000
	6.1	SWAGED POLES AND GARDEN POSTS		
939	ELEC-6.1.1	Fabrication, supply and transportation of all sizes swaged poles up to site confirming to IS 2713 / 1980 specifications. The pole should be painted with primary coat of red oxide and black bituminous paint up to ground level with base plate, including cost of all materials etc., complete.(Rate per K. G)	1 Kg	71
940	ELEC-6.1.2	Fabrication and Supply of M.S. Poles for garden posts with 'B' class 60.25mm outer dia with base plate and suitable pole cap including cost and conveyance of all material including fixing of luminaire and labour charges etc., complete. (Rate per K. G)	1 Kg	65
941	ELEC-6.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1 Kg	65
		OCTOGONAL POLES		
		SOR 2015-2016 Deleted ELEC-6.1.4		Deleted

942	ELEC-6.1.4	Fabrication, Transportation and supply of hot-dip galvanized 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 as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.5 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	1 No	10750
		SOR 2015-2016 Deleted ELEC-6.1.5		Deleted
943	ELEC-6.1.5	Fabrication, Transportation and supply of hot-dip galvanized 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 as per IS specification suitable to withstand the wind speed of 180 KMPH for 8 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	1 No	11500
		SOR 2015-2016 Deleted ELEC-6.1.7		Deleted
944	ELEC-6.1.6	Fabrication, Transportation and supply of hot-dip galvanized 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 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	1 No	15500
		SOR 2015-2016 Deleted ELEC-6.1.9		Deleted
945	ELEC-6.1.7	Fabrication, Transportation and supply of hot-dip galvanized 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 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	1 No	16250
		SOR 2015-2016 Deleted ELEC-6.1.11		Deleted

946	ELEC-6.1.8	Fabrication, Transportation and supply of hot-dip galvanized 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 as per IS specification suitable to withstand the wind speed of 180 KMPH for 12 mtrs height Pole having dimensions Bottom 240mm, Top 100mm 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	1 No	25000
		SOR 2015-2016 Deleted ELEC-6.1.13		Deleted
		POLE BRACKETS		
947	ELEC-6.1.9	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	1200
948	ELEC-6.1.10	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	1600
949	ELEC-6.1.11	Fabrication, Transportation and supply of 1 Mtr length Double Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	1400
950	ELEC-6.1.12	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	2500
951	ELEC-6.1.13	Fabrication, Transportation and supply of 1.5 Mtr Length Single Arm suitable size decorative galvanized Bracket with PU paint colour finish etc complete. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	5000
952	ELEC-6.1.14	Fabrication, Transportation and supply of 1.5 Mtr Length Double Arm suitable size decorative galvanized Bracket with PU paint colour finish etc complete. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	8500
953	ELEC-6.1.15	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 40mm / 50mm dia Pipe. Makes:Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	4500
		ERRECTION OF POLES		

954	ELEC-6.1.16	Foundation and erection charges for 9 mtrs / 10 Mtrs long Octagonal / Conical pole duly erecting on base plate 290mm x 290mm x 16mm thick duly providing 4 Nos. foundation bolts with nuts with providing of M20 c.c 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	4950
		HIGH MAST POLES		
955	ELEC-6.1.17	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	1 No	103500
956	ELEC-6.1.18	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 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 with GLS type aviation twin lamp. Makes: Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	135000

957	ELEC-6.1.19	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 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 with GLS type aviation twin lamp. Makes: Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	168000
		SOR 2015-2016 Deleted ELEC-6.1.25		Deleted
		SOR 2015-2016 Deleted ELEC-6.1.26		Deleted
		SOR 2015-2016 Deleted ELEC-6.1.27		Deleted
		FEEDER PILLAR BOXES		
958	ELEC-6.1.20	Supply and fixing of suitable feeder pillar box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 40A TP MCB, 6 Nos SP MCB's, bus bars, 6 Sqmm 3 core copper cable for individual light control, contactor, suitable timer and connectors and provision for energy meter etc., complete for finished item of work.	1 No	29000
959	ELEC-6.1.21	Supply and fixing of suitable feeder pillar box made with 14 SWG CRCA sheet including S & F of Legrand / Schnieder / Siemens / ABB / L&T make 63A TP MCB, 8 Nos SP MCB's, bus bars, 6 Sqmm 3 core copper cable for individual light control, contactor, suitable timer and connectors and provision for energy meter etc., complete for finished item of work.	1 No	30500
		ERRECTION HIGH MAST POLES		
960	ELEC-6.1.22	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 Carriage etc complete.	1 No	28000

961	ELEC-6.1.23	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	35600
962	ELEC-6.1.24	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	45500
		SOR 2015-2016 Deleted ELEC-6.1.33		Deleted
		SOR 2015-2016 Deleted ELEC-6.1.34		Deleted
		CONICAL POLES		
963	ELEC-6.1.25	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 500mm x 100mm with all accessories connector and fuse base and a fixing arrangements for advertisements holdings, foundation bolts with washers and nuts 4 sets. including S&F of 1.0mtrs C type decorative single arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work. Makes: Bajaj / Valmont / TRANSRAIL / SKIPPER	1 No	14580
		SOR 2015-2016 Deleted ELEC-6.1.36		Deleted
964	ELEC-6.1.26	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 500mm x 100mm with all accessories connector and fuse base and a fixing arrangements for advertisements holdings, foundation bolts with washers and nuts 4 sets. including S&F of 1.5mtrs C type decorative double arm with painted bracket with dooms either sides complete with all accessories as per the requirements at site and as per the directions of field engineers during execution for finished item of work. Makes:Bajaj / Valmont / TRANSRAIL	1 No	16740
		SOR 2015-2016 Deleted ELEC-6.1.38		Deleted

965	ELEC-6.1.27	Supply of following sizes thermo plastic pole boxes IP 65 protection Make : Hensel / Sintex		
	ELEC-6.1.27 a	300X150X170		1550
	ELEC-6.1.27 b	300X300X170		2250
	ELEC-6.1.27 c	300X450X170		3000
	ELEC-6.1.27 d	300X600X170		3550
966	ELEC-6.1.28	Erection charges for 7mts / 8mts 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
		GRP POLES		
967	ELEC-6.1.29	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/Helipole		
968	ELEC-6.1.29 a	...do.... 3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1 No	9000
969	ELEC-6.1.29 b	...do.... 4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1 No	11500
970	ELEC-6.1.29 c	...do.... 6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1 No	14500
971	ELEC-6.1.29 d	...do.... 8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1 No	18800
972	ELEC-6.1.29 e	...do.... 10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 155Km/Hr	1 No	27300
973	ELEC-6.1.30	Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete. Makes: Bajaj / Kemrock / Sumip / Helipole		
	ELEC-6.1.30 a	...do.... For 3.00 Mtrs Pole	1 No	1650
	ELEC-6.1.30 b	...do.... For 4.00 Mtrs Pole	1 No	1650

	ELEC-6.1.30 c	...do.... For 6.00 Mtrs Pole	1 No	1980
	ELEC-6.1.30 d	...do.... For 8.00 Mtrs Pole	1 No	2310
	ELEC-6.1.30 e	...do.... For 10.00 Mtrs Pole	1 No	5500
	6.2	CONTROL PANEL BOARD		
974	ELEC-6.2.1	Fabrication and erection of 14SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq. mm	4000
975	ELEC-6.2.2	Fabrication and erection of 16 SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq. mm	3750
976	ELEC-6.2.3	Fabrication and erection of 18SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc., including cutting, bending drilling, welding and reveting etc., complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.	1 Sq. mm	3450
	6.3	METERING EQUIPMENT		
977	ELEC-6.3.1	Supply and erection of 0-415V Digital meter on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL	1 No	2500
978	ELEC-6.3.2	Supply and erection of 0-415V Analog meter on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.	1 No	450
979	ELEC-6.3.3	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Digital Ammeter of size 96x96mm on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.	1 No	2500
980	ELEC-6.3.4	Supply and erection of 0-100 / 200 / 400 / 600 /1000 Analog Ammeter of size 96x96mm on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.	1 No	450
981	ELEC-6.3.5	Supply and erection of Digital frequency meter on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.	1 No	4556
982	ELEC-6.3.6	Supply and erection of Digital power factor meter, 3 phase,	1 No	2700

		4 wire balanced or unbalanced load 5A, 415V of size 96x96mm on existing box / panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.		
983	ELEC-6.3.7	Supply and erection of L.T. 3phase Digital multifunction energy meter with 3 lines LCD display for measuring all the parameters (voltage / Current / Power / frequency / power factor / kw / kwh / KVAR/ KVARH/) on existing box panel board including connections etc., complete. Makes: CONZERVE / ELMEASURE / LEGRAND / MECO / HPL.	1 No	10023
984	ELEC-6.3.8	Supply and erection of selector switch for voltmeter / Ammeter on the existing box / panel including connections etc., complete. Makes: L&T / C&S / SALZAR / HPL	1 No	175
985	ELEC-6.3.9	Supply and erection of LED indicator lamps on the existing box / panel board. Makes: L&T / C&S / SALZAR / HPL .	1 No	135
986	ELEC-6.3.10	Supply and erection of LT current transformer with bar primary 100/5A to 1000 / 5A ratio in the existing box / panel including connections etc., complete. Makes: KAPPA	1 No	450
987	ELEC-6.3.11	Supply and fixing of single phase Electronic energy Meter,240V AC,50 HZ as per IS13010 up to 40A range with 200% over load capacity complete with connections etc., complete on the existing board. Makes: CONZERVE / ELMEASURE / MECO / HPL / HAVELLS.	1 No	1050
988	ELEC-6.3.12	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	3037
989	ELEC-6.3.13	Supply and fixing of 8 Stage APFC Relay with connection etc complete. Makes: L&T / Siemens / EPCOS / Schneider / Elmeasure	1 No	13600
990	ELEC-6.3.14	Supply and fixing of 12 Stage APFC Relay with connection etc complete. Makes: L&T / Siemens / EPCOS / Schneider / Elmeasure	1 No	14800
991	ELEC-6.3.15	Supply and fixing of 14 Stage APFC Relay with connection etc complete. Makes: L&T / Siemens / EPCOS / Schneider / Elmeasure)	1 No	16900
	6.4	SUB STATION EQUIPMENT and TRANSFORMERS		
992	ELEC-6.4.1	Carryout routine maintenance, servicing and testing of 630A to 1000A L.T.ACB by cleaning fixed contacts, moving contacts and arcchutes including servicing and putting the ACB in perfect working condition after detting all relay and	1 No	2500

		ON, OFF mechanism etc done with only manufacturing companies		
993	ELEC-6.4.2	Carryout routine maintenance and servicing of LT.Cubical pannel board having approximately 15 to 22 Nos of switches cleaning with power blower and servicing the contacts, tightning the connection of incoming and outgoing cables, and checking the operating machanism for smooth functioning of switches and putting them in smooth working condition.	1 No	2500
994	ELEC-6.4.3	Routine maintenance of transformer, including testing of 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	5500
995	ELEC-6.4.4	Testing of Transformer oil for dielectric breakdown strength.	1 No	750
996	ELEC-6.4.5	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete.- Upto 315 KVA	1 No	4000
997	ELEC-6.4.6	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete. -500 / 1000 KVA	1 No	5000
998	ELEC-6.4.7	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -Upto 315 KVA	1 No	750
999	ELEC-6.4.8	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -500 / 1000 KVA	1 No	1050
1000	ELEC-6.4.9	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -Upto 315 KVA	1 No	300
1001	ELEC-6.4.10	Replacing old and unserviceable gasket of H. T bushing for the following Transformer capacity. -500 / 1000 KVA	1 No	550
1002	ELEC-6.4.11	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. Upto 315 KVA	1 No	700
1003	ELEC-6.4.12	Replacing old and unserviceable gasket of L.T bushing for the following transformer capacity. 500 / 1000 KVA	1 No	1450
1004	ELEC-6.4.13	Replacement the H T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm- For copper coils	1 Kg	590
1005	ELEC-6.4.14	Replacement the H T / L. T burntout winding coils of distribution transformer including rewinding, varnishing and vaccuming etc.,duly retaining the removed burnt winding coils by the Contractor / Firm - For aluminium coils	1 Kg	390
1006	ELEC-6.4.15	Insulating HT / LT copper / aluminium coils for	1 Kg	360

		Transformers.		
1007	ELEC-6.4.16	Painting to transformer 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
1008	ELEC-6.4.17	Painting to transformer 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
1009	ELEC-6.4.18	Replacing H.T bushing for distribution Transformer by new one.	1 No	350
1010	ELEC-6.4.19	Replacing H.T bushing metal parts for distribution Transformer by new one.	1 No	380
1011	ELEC-6.4.20	Replacing L.T bushing for distribution Transformer by new one for the following capacities. - Upto 315 KVA	1 No	165
1012	ELEC-6.4.21	Replacing L.T bushing for distribution Transformer by new one for the following capacities.- 500 / 1000 KVA	1 No	175
1013	ELEC-6.4.22	Replacing L.T bushing rod with metal parts for distribution Transformer by new one for the following capacities. -100 KVA	1 No	300
1014	ELEC-6.4.23	Replacing L.T bushing rod metal parts for distribution Transformer by new one for the following capacities. -250 / 315 KVA	1 No	500
1015	ELEC-6.4.24	Replacing L.T bushing rod metal parts for distribution Transformer by new one for the following capacities. -500 KVA	1 No	1300
1016	ELEC-6.4.25	Replacing L.T bushing rod metal parts for distribution Transformer by new one for the following capacities. -1000 KVA	1 No	2000
1017	ELEC-6.4.26	Drying the repaired transformer with appropriate heat / air of following capacity of transformers. -Upto 315 KVA	1 No	5000
1018	ELEC-6.4.27	Drying the repaired transformer with appropriate heat / air of following capacity of transformers. -500 / 1000KVA	1 No	6500
1019	ELEC-6.4.28	Loading, transportation and Unloadng of transformer from site to Workshop or vice verse. -Upto 500 KVA	1 No	4500
1020	ELEC-6.4.29	Loading, transportation and Unloadng of transformer from site to Workshop or vice verse. -630 / 1000 KVA	1 No	6800
1021	ELEC-6.4.30	Supply of new and tested transformer oil as per IS-335 - 1972 (per Ltr)	1 Ltr	100
1022	ELEC-6.4.31	Filtration of transformer oil as per ISS specifications filters to dielectric strength above 40KV at site. (per Ltr) excluding transportation	1 Ltr	8
1023	ELEC-6.4.32	Filtration of transformer oil as per ISS specifications filters to dielectric strength above 40KV at workshop (per Ltr)	1 Ltr	5

1024	ELEC-6.4.33	Supply of MPP type heavy duty capacitor of operating voltage not less than 480V and losses not more than 0.35W per KVAR and inrush current withstand capability 300 times the rated current. Makes:L&T/Siemens/Schneider/Epcos.	1 KVAR	330
1025	ELEC-6.4.34	Supply, transportation and delivery at site of 3 Phase, 50 Hz, oil immersed and naturally cooled, outdoor / Indoor type copper wound transformer designed and manufactured as per IS 2026-1977 and 1st filling of oil as per IS 335 of 1993, connected delta on primary side and Star on secondary side with additional neutral brought out on load side, 11000V / (433V / 415V) with HV tapping + or - 2.5% continuously rated for full load and temperature rise not exceeding 50°C in oil and 55°C rise by th resistance of the winding after contineous run on full load rating complete with the following standard mountings. Makes: KIRLOSKAR / ESENNAR / VOLTAMP / PETE		
		(Note:Other than these makes / brands mentioned rate may be allowed as approved by AP Electricity Board).		
		1. Rated KVA :KVA 2. Service: Outdoor / Indoor 3. Mounting : Plinth. 4. Copper wound : Double. 5. Type : Core. 6. Cooling : ONAN 7. Temp . Rise : 55°C. 8. Vector Group: Dyn 11		
		9. Primary Connection : Delta 10. Primary Volts : 11000 11. Primry Frequency : 50 12.Primary Phases : 3 13. Primary wires: 3 14. Secondary connection : Star 15. Secondary Volts : 415 / 433V 16. Secondary phases : 3 17. Secondary wires: 4 18. Taps on primary winding for primary voltage variation : +7.5% to - 7.5% in steps of 2.5%,		
		19. Terminal arrangement. a. HV: Bare Busings / Cable end box b. LV : Cable box 20. LV : One separate terminal for earthing. 21. Impedance(Z%) :As per IS specification		

		22. Fittings & Accessories. a. Rating and terminal marking plate b. Earthing terminals c. Lifting Lugs d. Conservator with drain plug. e. Oil level Indicator f. Dehydrating silicagel breather g. Air release device h. Drain cum filter wall i. Explosion vent with diaphragm j. Radiators (Attachable) k. Seperate neutral bushing l. Uni directional flat rollers.		
	ELEC-6.4.34 a	... do..... 63 KVA Copper Wound Transformer with No load / Load losses (Watts): .....As per IS specification	1 No	210000
	ELEC-6.4.34 b	... do..... 100 KVA Copper Wound Transformer	1 No	250000
	ELEC-6.4.34 c	... do..... 160 KVA Copper Wound Transformer	1 No	380000
	ELEC-6.4.34 d	... do..... 250 KVA Copper Wound Transformer	1 No	520000
	ELEC-6.4.34 e	... do..... 315 KVA Copper Wound Transformer	1 No	620000
	ELEC-6.4.34 f	... do..... 500 KVA Copper Wound Transformer	1 No	775000
1026	ELEC-6.4.35	Supply, transportation and delivery at site of 3 Phase, 50 Hz, Dry type, Indoor type copper wound transformer designed and manufactured as per IS 2026-1977 and IS 11171-1985, connected delta on primary side and Star on secondary side with additional neutral brought out on load side, 11000V / (433V / 415V) with HV off load tap changing + 5% to -5% in steps of 2.5%, temperature rise by the resistance 90°C. complete with the following standard mountings. Makes: KIRLOSKAR / ESSENNAR / VOLTAMP /PETE		
		(Note:Other than these makes / brands mentioned rate may be allowed as approved by AP Electricity Board).		
		1. Rated KVA :KVA (Cast Resin) 2. Service: Indoor 3. Mounting : Floor. 4. Copper wound : Double. 5. Type of cooling : ANAN. 6. Insulation Class : Class F 7. Temperature rise by resistance : 90°C 8. Vector Group: Dyn 11		

		9. Primary Connection : Delta 10. Primary Volts : 11000 11. Primry Frequency : 50 12. Primary Phases : 3 13. Primary wires: 3 14. Secondary connection : Star 15. Secondary Volts : 433V / 415V 16. Secondary phases : 3 17. Secondary wires: 4 18. Taps on primary winding for primary voltage variation : +5.0% to - 10.0% in steps of 2.5% through links.		
		19. <u>Terminal arrangement.</u> a. HV: Cable end box b. LV : Cable end box 20. No load losses (Watts): As per IS specifications 21. Load losses (Watts): .....As per IS specifications 22. Impedance(Z%) :As per IS specifications		
		<u>21. Fittings & Accessories.</u> a. Rating and terminal marking plate b. Earthing terminals c. Lifting Lugs d. Winding temperature Indicator e. Seperate neutral bushing f. Uni directional flat rollers.		
		SOR 2015-2016 Deleted ELEC-6.4.40		Deleted
	ELEC-6.4.35 a	... do..... 250 KVA Copper Wound Cast Resin Transformer	1 No	710000
	ELEC-6.4.35 b	... do..... 315 KVA Copper Wound Cast Resin Transformer	1 No	810000
	ELEC-6.4.35 c	... do..... 500 KVA Copper Wound Cast Resin Transformer	1 No	975000
	ELEC-6.4.35 d	... do..... 630 KVA Copper Wound Cast Resin Transformer	1 No	1050000
	ELEC-6.4.35 e	... do..... 1000 KVA Copper Wound Cast Resin Transformer	1 No	1350000
	6.5	L T LINES ACCESSORIES AND POLES		
1027	ELEC-6.5.1	Supply and erecting approved make 11KV, 5KA metal oxide lightning arrestors suitable for 11 KV supply with necessary materials on existing cross arm.	1 No	1500
1028	ELEC-6.5.2	Supply and erecting porcelain disc type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	600

1029	ELEC-6.5.3	Supply and erecting porcelain pin type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	300
1030	ELEC-6.5.4	Supply and erecting porcelain post type insulator suitable for 11KV line with suitable hardware on existing cross arms.	1 No	675
1031	ELEC-6.5.5	Supply and erecting porcelain pin/shackle type insulator suitable for L. T.	1 No	90
1032	ELEC-6.5.6	Approved made 11KV, 400A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	7000
1033	ELEC-6.5.7	Approved made 11KV, 200A A.B switch with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	6100
1034	ELEC-6.5.8	Approved made 11KV, 200A A.B switch (tilting) with all standard accessories etc., complete with cost and conveyance of all materials.	1 No	5900
1035	ELEC-6.5.9	11KV, H.G fuse set including all standard accessories etc., complete with cost and conveyance of all materials.	1 No	4000
1036	ELEC-6.5.10	Supply of 7/3.15 AAA C all Aluminium annealed conductor Rabbit.	1 Km	26000
1037	ELEC-6.5.11	Supply of 7/2.50 AAA C all Aluminium annealed conductor Weasel.	1 Km	15400
1038	ELEC-6.5.12	Supply of 9.1 Mtr PSCC Pole 280 Kg Working load.	1 No	3200
1039	ELEC-6.5.13	Supply of 8.0 Mtr PSCC Pole 140 Kg Working load.	1 No	1700
1040	ELEC-6.5.14	Supply of 175 x 85 mm / 150 x 75 mm RS Joist.	1 Kg	50
	6.6	LIGHTENING PROTECTIVE SYSTEM		
1041	ELEC-6.6.1	Supply and fixing of lightning protective system conforming to IS : 2309 with all standard accessories such as metal globe finials on the top of the building with 25.4 mm dia 3.0mtrs. Length of 'B' class G.I pipe etc., complete without down conductors and earthing.	1 No	600
1042	ELEC-6.6.2	Supply of Advanced lightning 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.	1 No	115000

		Make : NIMBUS / NLP 2200 / FOREND(ESE-EU) / SCHIRTEC / Thunder Guard		
1043	ELEC-6.6.3	Installation and commissioning of 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	31000
1044	ELEC-6.6.4	Supply of electro-Mechanical counter Make: CIRPROTEC / INDALAC / INGESCO / SCHIRTEC / Thunder Guard.	1 No	16000
1045	ELEC-6.6.5	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 earthing compound and back fill compound etc complete Make: CIRPROTEC / INDALAC / INGESCO / SCHIRTEC / EARTH PLUS	1 No	9500
1046	ELEC-6.6.6	Supply of down conductor of 1x70sqmm single core PVC insulated unarmoured copper conductor cable of ISI mark. Makes: Finolex / Polycab / Havells / RPG / RR Kabel	1 Mtr	410
	7.0	NET WORKING		
1047	ELEC-7.1.1	Supply of 2 Pair, 0.5mm telephone copper wire. Makes: Finolex / Delton / Surabi / Polycab	100 Mtrs	1010
1048	ELEC-7.1.2	Supply of 5 Pair telephone copper wire. Makes: Finolex / Delton / Surabi / Polycab /	100 Mtrs	2800
1049	ELEC-7.1.3	Supply of LAN Cable cat - 6 UTP cable. Makes: D Link / AMP / Molex / Legrand / Krone.	100 Mtrs	2580
1050	ELEC-7.1.4	Supply of Cat 6 RJ-45 information outlets including duel face plate. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	340
1051	ELEC-7.1.5	Supply of 24 Port manageble switches. Makes: D link / CISCO / Net Gear / HP.	1 No	6000
1052	ELEC-7.1.6	Supply of 8 Port manageble switches. Makes: D link / CISCO / Net Gear / HP.	1 No	1500
1053	ELEC-7.1.7	Supply of 3200 access point. Makes: D link / CISCO / Net Gear / HP.	1 No	12500
1054	ELEC-7.1.8	Supply of 7 feet length moulded patch cord. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	220
1055	ELEC-7.1.9	Supply of 3 feet length moulded patch cord. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	200

1056	ELEC-7.1.10	Supply of 24 port patch panels. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	6500
1057	ELEC-7.1.11	Supply of 100 pair MDF loaded with 2/10 Modular. Makes: Krone or its equivalent.	1 No	3680
1058	ELEC-7.1.12	Supply of 100 Pair raiser cable for telephone Makes: Finolex / Delton / Surabi / Polycab.	1 Mtr	387
1059	ELEC-7.1.13	Supply of 10 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab	1 Mtr	40
1060	ELEC-7.1.14	Supply of 20 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab	1 Mtr	76
1061	ELEC-7.1.15	Supply of 50 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab.	1 Mtr	195
1062	ELEC-7.1.16	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
1063	ELEC-7.1.17	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
1064	ELEC-7.1.18	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
1065	ELEC-7.1.19	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
1066	ELEC-7.1.20	Supply of 6U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	4700
1067	ELEC-7.1.21	Supply of 9U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	5580
1068	ELEC-7.1.22	Supply of 12U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	6484
1069	ELEC-7.1.23	Supply of 15U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	7348
1070	ELEC-7.1.24	Supply of 17U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	10125
1071	ELEC-7.1.25	Supply of 42U floor mounting net work rack with power spike including all accessories. Makes: HCL / Vall.	1 No	32000

1072	ELEC-7.1.26	Supply of 6 Core (Indoor / Out door), Single mode armoured, Optic fibre cable. Makes: D Link / AMP / Molex / Legrand / Krone.	1 Mtr	75
1073	ELEC-7.1.27	Supply of 12 Core (Indoor / Out door), Single mode armoured, Optic fibre cable. Makes: D Link / AMP / Molex / Legrand / Krone.	1 Mtr	105
1074	ELEC-7.1.28	Supply of 6 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	7500
1075	ELEC-7.1.29	Supply of 12 port fibre distribution unit. (FDU / LIU) loaded with couplers etc complete. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	9500
1076	ELEC-7.1.30	Supply of Subscriber connector (SC) to SC / LC patch card of 1 Mtr length. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	2000
1077	ELEC-7.1.31	Supply of Pigtails for fibre core connectivity. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	350
1078	ELEC-7.1.32	Supply of Cat 6 RJ-45 information outlets including Single face plate. Makes: D Link / AMP / Molex / Legrand / Krone.	1 No	250
		RACEWAYS AND JUNCTION BOXES		
1079	ELEC-7.1.33	Supply of 100mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	460
1080	ELEC-7.1.34	Supply of 150mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	605
1081	ELEC-7.1.35	Supply of 300mm x 38mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	1035
1082	ELEC-7.1.36	Supply of 100mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	435
1083	ELEC-7.1.37	Supply of 150mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	560
1084	ELEC-7.1.38	Supply of 300mm x 25mm G I Raceways of 2mm thick with top cover and required hard ware etc complete.	1 Mtr	1010
1085	ELEC-7.1.39	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
1086	ELEC-7.1.40	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
1087	ELEC-7.1.41	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
	8.1	MISSILLANEOUS ITEMS		

1088	ELEC-8.1.1	Supply of single fancy bracket with glass shade best Indian make	1 No	215
1089	ELEC-8.1.2	Supply of double fancy bracket with glass shade best Indian make	1 No	385
1090	ELEC-8.1.3	Supply of 10" ceiling fittings with glass doom best Indian make	1 No	193
1091	ELEC-8.1.4	Supply of 10W LED Bulk head fitting with Pressure die cast alluminium with opal diffuser Makes : Bajaj / Crompton / Surya / VIN / Havells / Green Lights / Insta Power.	1 No	950
1092	ELEC-8.1.5	TW Seperators / Gutties	100 Nos	165
1093	ELEC-8.1.6	PVC Rawl Plugs	100 Nos	40
1094	ELEC-8.1.7	U Nails	100 Nos	44
1095	ELEC-8.1.8	Alluminium Link Clips	100 Nos	75
1096	ELEC-8.1.9	50 mm G.I.Nut and Bolts.	1 Set	13
1097	ELEC-8.1.10	63 to 100 mm G.I.Nut and Bolts.	1 Set	24
1098	ELEC-8.1.11	50 mm 0 Gauge Nails	1 Doz	44
1099	ELEC-8.1.12	63 to 100 mm 0 Gauge Nails	1 Doz	73
1100	ELEC-8.1.13	Hard Coke	1 Kg	20
1101	ELEC-8.1.14	Salt	1 Kg	10
1102	ELEC-8.1.15	PVC Cleats 2 Way	100 Nos	330
1103	ELEC-8.1.16	PVC Cleats 4 Way	100 Nos	600
1104	ELEC-8.1.17	Binding Wire	1 Kg	61
1105	ELEC-8.1.18	PVC tape Role (8 Mtrs)	1 No	17
1106	ELEC-8.1.19	C.I.Knob	1 No	50
1107	ELEC-8.1.20	Stay tight set (Jum bracket 300 mm)	1 Pair	303
1108	ELEC-8.1.21	Stay clamp with bolts and Nuts)	1 Set	194
1109	ELEC-8.1.22	L.T.Guy insulator	1 No	51
1110	ELEC-8.1.23	12 / 15 MS plain rod fan hook	1 No	22
1111	ELEC-8.1.24	19 / 20 mm Steel tube fan down rod	1 Mtr	66
1112	ELEC-8.1.25	Consealed box PVC / MS with hook for fan	1 No	88
1113	ELEC-8.1.26	Coil Earthing	1 No	66
1114	ELEC-8.1.27	Cable root Indicators	1 No	100
1115	ELEC-8.1.28	40 mm x 40 mm x 6 mm angle iron with I bolt.	1 Set	242

1116	ELEC-8.1.29	Mild Steel Items	1 Kg	61
1117	ELEC-8.1.30	Acrylic Cover of size 4" x 7" for night lamps.	1 No	17
1118	ELEC-8.1.31	TW / PVC Round Blocks	1 No	10
1119	ELEC-8.1.32	G.I.Funnel with Mesh 1/2" x 4"	1 No	83
1120	ELEC-8.1.33	Asbestos Sheet	1 Sq Mt	237
1121	ELEC-8.1.34	First Aid box 18" x 12" x 8"	1 No	1100
1122	ELEC-8.1.35	11 KV/22 KV Hand gloves	1 No	154
1123	ELEC-8.1.36	Copper plate / Copper strip (Per K.G)	1 Kg	605
1124	ELEC-8.1.37	No. 8/10 SWG copper wire (per K.G)	1 Kg	605
1125	ELEC-8.1.38	PVC Insulated copper winding wire of fine quality (per K. G)	1 Kg	726
1126	ELEC-8.1.39	No. 14 SWG copper wire (per K. G)	1 Kg	605
1127	ELEC-8.1.40	Copper winding wire (per K. G)	1 Kg	701
1128	ELEC-8.1.41	G.I. Strip / Plate / Wire (per K. G)	1 Kg	68
1129	ELEC-8.1.42	Alluminum Bus bars / Strips / accessories	1 Kg	234
1130	ELEC-8.1.43	Alluminum winding wire	1 Kg	322
1131	ELEC-8.1.44	6.2 Volt series bulb (25 Nos.)	25 Nos	91
1132	ELEC-8.1.45	6.2 Volt series bulb with navar plate(25 Nos.)	25 Nos	97
1133	ELEC-8.1.46	Supply of Rotating machine	1 No	16500
1134	ELEC-8.1.47	Supply and fixing of 6mm thick MS Chekered plate.	1 Kg	67
1135	ELEC-8.1.48	Supply and fixing of 6mm thick Alluminium Chekered plate.	1 Kg	266
1136	ELEC-8.1.49	Copper old winding Wire scrap for 1 Kg	1 Kg	165
1137	ELEC-8.1.50	Cement	1 Kg	7
1138	ELEC-8.1.51	Hylam Sheet 3mm thick	1 Sq mtr	945
1139	ELEC-8.1.52	Earth work excacvation in all soils for trench, Pole Pit and Earth Pit.	1 Cum	110
1140	ELEC-8.1.53	Cost of Sand	1 Cum	594
1141	ELEC-8.1.54	Cost of Bricks	1000 Nos	3819
1142	ELEC-8.1.55	25mm Nominal Bore light grade G.I.Pipe	1 Mtr	226
1143	ELEC-8.1.56	25mm Nominal Bore Medium grade G.I.Pipe	1 Mtr	242
1144	ELEC-8.1.57	40mm Nominal Bore light grade G.I.Pipe	1 Mtr	355

1145	ELEC-8.1.58	40mm Nominal Bore Medium grade G.I.Pipe	1 Mtr	381
1146	ELEC-8.1.59	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1 No	6
1147	ELEC-8.1.60	G.I Nuts, Bolts an Washers each set	1 Set	11
1148	ELEC-8.1.61	18" dia 2" thick hume pipe ring	1 No	220
1149	ELEC-8.1.62	18" dia 3" hume pipe ring	1 No	275
1150	ELEC-8.1.63	2" thick CC cover for hume pipe ring with handle.	1 No	121
1151	ELEC-8.1.64	Supply of Saddle / Clamps suitable for fixing 2 Core 4 to 10 Sqmm Cable.	100 Nos	249
1152	ELEC-8.1.65	Supply of Saddle / Clamps suitable for fixing 4 Core 4 & 6 Sqmm Cable.	100 Nos	249
1153	ELEC-8.1.66	Supply of Saddle / Clamps suitable for fixing 4 Core 10 & 16 Sqmm Cable.	100 Nos	314
1154	ELEC-8.1.67	Supply of Saddle / Clamps suitable for fixing 3.5 Core 25 & 35 Sqmm Cable.	100 Nos	382
1155	ELEC-8.1.68	Supply of Saddle / Clamps suitable for fixing 3.5 Core 50 Sqmm Cable.	100 Nos	545
1156	ELEC-8.1.69	Supply of Saddle / Clamps suitable for fixing 3.5 Core 70 & 95 Sqmm Cable.	100 Nos	605
1157	ELEC-8.1.70	Supply of Saddle / Clamps suitable for fixing 3.5 Core 120 to 185 Sqmm Cable.	100 Nos	726
1158	ELEC-8.1.71	Supply of Saddle / Clamps suitable for fixing 3.5 Core 240 & 300 Sqmm Cable.	100 Nos	908
1159	ELEC-8.1.72	Supply of Saddle / Clamps suitable for fixing 3.5 Core 400 Sqmm Cable.	100 Nos	1210
1160	ELEC-8.1.73	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1 No	88
		LABOUR RATES		
1161	ELEC-8.1.74	Skilled Electrician	1 No	515
1162	ELEC-8.1.75	Semi Skilled Electrician / Lineman	1 No	400
1163	ELEC-8.1.76	Helper (Electrical)	1 No	400
1164	ELEC-8.1.77	Skilled Mason	1 No	445
1165	ELEC-8.1.78	Semi Skilled Mason	1 No	400
1166	ELEC-8.1.79	Skilled Welder	1 No	445
1167	ELEC-8.1.80	Skilled Fitter	1 No	475

1168	ELEC-8.1.81	Semi Skilled Fitter / Welder	1 No	400
1169	ELEC-8.1.82	Skilled Carpenter	1 No	475
1170	ELEC-8.1.83	Semi Skilled Carpenter	1 No	400
1171	ELEC-8.1.84	Man Mazdoor	1 No	350
1172	ELEC-8.1.85	DG Set operator/Air Compressor Operator	1 No	445
1173	ELEC-8.1.86	2nd Class DG Set operator/Air Com	1 No	400
1174	ELEC-8.1.87	Plumber (Licensed)/Pipe Fitter	1 No	510
1175	ELEC-8.1.88	Painter Class -2	1 No	400
1176	ELEC-8.1.89	Diploma Engineer / Surveyor	1 No	645
1177	ELEC-8.1.90	Graduate Engineer	1 No	860
1178	ELEC-8.1.91	ITI Certificate holder	1 No	520
1179	ELEC-8.1.92	Stenographer / Computer Operator	1 No	565
	9.1	WIRELESS FIRE ALARM SYSTEM		
1180	ELEC-9.1.1	Supply and fixing of wireless smoke detection control panel of 28 wireless zones, 2 Hard wired Zones, Tamper Alert, Pass code protected, RF jamming recognition, diagnostic feature for RF signal strength between panel and each detector, vent reporting using PSTN telephone line, dialing upto 4 telephone numbers, event reporting as per users choice, LCD screen display, two way voice interaction, battery backup stand by time up to 12 hrs. Including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Visonic / Honeywell	1 No	42000
1181	ELEC-9.1.2	Supply and fixing of Wireless Repeater.The wireless repeater extends the communication range of detection by relaying data between receiver and remote wireless transmitter including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Visonic / Honeywell.	1 No	10000

1182	ELEC-9.1.3	Supply and fixing of Wireless Siren Strobe external wireless siren - a fully supervised power code outdoor (IP55) wireless Siren and strobe light. Designed for external installation. Wire - Free connection between control panel and siren. Convenient rapid no- mess installation. Separate fire alarm signals, 98db Piezo siren and high power strobe light. Weather resistant, IP55, 2-way communication for local and remote diagnostics. Plug-in power supply, NIMH rechargeable back-up power battery, transmits status, tamper, low- battery, supervisory and AC loss messages to the control panel, Tri- State tamper switch identifies screw manipulation removal of cover or playing from the wall including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Visonic / Honeywell.	1 No	13200
1183	ELEC-9.1.4	Supply and fixing of wireless Fully Supervised Smoke Detector, Photoelectric detection technology for superior detection sensitivity , sound and transmitted for smoke, tamper and low battery, works on power code protocol, easy programming and enrolling to the control panel, long life 9 volt alkaline or lithium battery including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Visonic / Honeywell.	1 No	6650
	9.2	ADDRESSABLE - FIRE ALARM SYSTEM		
1184	ELEC-9.2.1	Supply, Installation, testing and commissioning of wall mounting 10 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 10 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	620000

1185	ELEC-9.2.2	Supply, Installation, testing and commissioning of wall mounting 10 loop micro processor based analog addressable fire alarm 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 indictions and battery back up as per detailed specifications. Makes: Siemens / Morley / Bosch / Ravel.	1 No	580000
1186	ELEC-9.2.3	Supply, Installation, testing and commissioning of wall mounting 8 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 8 loop Micro processor based Fire Alarm control panel with zonal indictions and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	450000

1187	ELEC-9.2.4	Supply, Installation, testing and commissioning of wall mounting 8 loop micro processor based analog addressable fire alarm 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 8 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Siemens / Morley / Bosch / Ravel.	1 No	402000
1188	ELEC-9.2.5	Supply, Installation, testing and commissioning of wall mounting 6 loop micro processor based analog addressable fire alarm 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 6 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	405000

1189	ELEC-9.2.6	Supply, Installation, testing and commissioning of wall mounting 6 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 6 loop Micro processor based Fire Alarm control panel with zonal indictions and battery back up as per detailed specifications. Makes: Siemens / Morley / Bosch / Ravel.	1 No	362000
1190	ELEC-9.2.7	Supply, Installation, testing and commissioning of wall mounting 4 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 4 loop Micro processor based Fire Alarm control panel with zonal indictions and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	270500

1191	ELEC-9.2.8	Supply, Installation, testing and commissioning of wall mounting 4 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 4 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Siemens / Morley / Bosch / Ravel.	1 No	241500
1192	ELEC-9.2.9	Supply, Installation, testing and commissioning of wall mounting 2 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 2 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	235000

1193	ELEC-9.2.10	Supply, Installation, testing and commissioning of wall mounting 2 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 2 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Siemens / Morley / Bosch / Ravel.	1 No	215500
1194	ELEC-9.2.11	Supply, Installation, testing and commissioning of wall mounting 1 loop micro processor based analog addressable fire alarm Control panel expandable by minimum 2 additional loops with minimum 80 character LCD display 4 access levels 1000 events, historical logging, flash E-PROM, 240 volts A C Power supply, automatic battery charger, 24V SLA batteries suitable for operating the entire system including tack back units and the hooters/strobes for a minimum of 4 hours in battery condition the panel shall have suitable power amplifiers for hooter / strobes the panel shall be capable beeing integrated with the BMS system and shall include cost of supply, installation of any additional modules or interfaces required for the same. The panel shall be completed as per the specification and as required fixing of 1 loop Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards.	1 No	208000

1195	ELEC-9.2.12	Supply, Installation, testing and commissioning of wall mounting 1 loop micro processor based analog addressable fire alarm 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: Siemens / Morley / Bosch / Ravel.	1 No	189000
1196	ELEC-9.2.13	Supply, Installation, testing and commissioning of intellegent analogue addressable Repeater panel including the cost of mounting accessories complete as per specification as required. Makes: Notifier / Edwards.	1 No	118000
1197	ELEC-9.2.14	Supply, Installation, testing and commissioning of intellegent analogue addressable Repeater panel including the cost of mounting accessories complete as per specification as required. Makes: Siemens / Morley / Bosch / Ravel.	1 No	100000
1198	ELEC-9.2.15	Supply and fixing of addressable wall mounting strobes cum hooters including the cost of mounting accessories complete as per specifications and as required including testing and commissioning. Makes: Notifier / Edwards.	1 No	5770
1199	ELEC-9.2.16	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: Siemens / Morley / Bosch / Ravel.	1 No	4700
1200	ELEC-9.2.17	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.	1 No	5900
1201	ELEC-9.2.18	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: Siemens / Morley / Bosch / Ravel.	1 No	5300
1202	ELEC-9.2.19	Supply and instllation of intallegent analogue addressable photo electric smoke detector including cost of base plate etc., complete as per specification with required fittings and	1 No	5800

		accessories. Makes: Notifier / Edwards.		
1203	ELEC-9.2.20	Supply and instillation of intallegent analogue addressable photo electric smoke detector including cost of base plate etc., complete as per specification with required fittings and accessories. Makes: Siemens / Morley / Bosch / Ravel.	1 No	5100
1204	ELEC-9.2.21	Supply and installation of intallegent analogue addressable rate of rise cum fixed temparature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: Notifier / Edwards.	1 No	5000
1205	ELEC-9.2.22	Supply and installation of intallegent analogue addressable rate of rise cum fixed temparature 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: Siemens / Morley / Bosch / Ravel.	1 No	4500
1206	ELEC-9.2.23	Supply and installation of intalligent 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
1207	ELEC-9.2.24	Supply and installation of intalligent 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: Siemens / Morley / Bosch / Ravel.	1 No	5500
1208	ELEC-9.2.25	Supply and Installation of Intalligent analogue addressable Control Modules including the cost of mounting accessories complete as per specifications and as required. Makes: Notifier / Edwards.	1 No	5200
1209	ELEC-9.2.26	Supply and Installation of Intalligent analogue addressable Control Modules including the cost of mounting accessories complete as per specifications and as required. Makes: Siemens / Morley / Bosch / Ravel.	1 No	4600
1210	ELEC-9.2.27	Supply and Installation of Intalligent analogue addressable monitor modules including the cost of mounting accessories complete as per specifications and as required. Makes: Notifier / Edwards.	1 No	5200

1211	ELEC-9.2.28	Supply and Installation of Intelligent analogue addressable monitor modules including the cost of mounting accessories complete as per specifications and as required. Makes: Siemens / Morley / Bosch / Ravel.	1 No	4600
1212	ELEC-9.2.29	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	4300
1213	ELEC-9.2.30	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: Siemens / Morley / Bosch / Ravel.	1 No	3800
	9.3	CONVENTIONAL - FIRE ALARM SYSTEM		
1214	ELEC-9.3.1	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 2 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	7500
1215	ELEC-9.3.2	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 4 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	9500
1216	ELEC-9.3.3	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 6 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	13000
1217	ELEC-9.3.4	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 8 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	15000
1218	ELEC-9.3.5	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 10 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	19500
1219	ELEC-9.3.6	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 12 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	22000

1220	ELEC-9.3.7	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with 14 zone, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel / Pinnacle.	1 No	26500
1221	ELEC-9.3.8	Supply and installation of Repeater panel including the cost of mounting accessories complete as per specifications and as required. Makes: System Censor / Ravel / Pinnacle.	1 No	13000
1222	ELEC-9.3.9	Supply and installation of duel tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required.	1 No	675
1223	ELEC-9.3.10	Supply and installation of dust and vermin proof manual call point to initiate audio visual alarm including the cost of mounting accessories complete as per specifications and as required.	1 No	650
1224	ELEC-9.3.11	Supply and installation of response indicators for above false ceiling detectors.	1 No	150
1225	ELEC-9.3.12	Supply and installation of plug - in type multi criterion detectors including the cost of base plate. 75mm dia M.S. outlet box for fixing of the detector base. Mounting accessories etc., complete as per specifications as required. Makes: System Censor / Ravel / Pinnacle	1 No	1800
1226	ELEC-9.3.13	Supply and installation of plug -in type photo electric smoke detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base. Mounting accessories etc complete and as per specifications and as required. Makes: System Censor / Ravel / Pinnacle.	1 No	1500
1227	ELEC-9.3.14	Supply and installation of plug -in type rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: System Censor / Ravel / Pinnacle.	1 No	1450
	9.4	POWDER BASED FIRE EXTINGUISHERS		

1228	ELEC-9.4.1	Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 10 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes : Cease Fire / Minimax	1 No	9200
1229	ELEC-9.4.2	Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 10 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes : Safex / Kenex / Bharat / Reliance	1 No	5900
1230	ELEC-9.4.3	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 2 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 3.6 kg, empty wt.1.6 kg, Discharge time minimum 8 sec, controllable discharge mechanism, range min. 2 mts applicable on classes A,B, C & electrically started fire, A rating -2 A, B rating -21 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyster powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Minimax	1 No	4500
1231	ELEC-9.4.4	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 2 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 3.6 kg, empty wt.1.6 kg, Discharge time minimum 8 sec, controllable discharge mechanism, range min. 2 mts applicable on classes A,B, C & electrically started fire, A rating -2 A, B rating -21 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyster powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Safex / Kenex / Bharat / Reliance	1 No	3750

1232	ELEC-9.4.5	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 4 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 6.9 kg, empty wt.2.9 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -3 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Minimax .	1 No	6370
1233	ELEC-9.4.6	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 4 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 6.9 kg, empty wt.2.9 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -3 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Safex / Kenex / Bharat / Reliance.	1 No	4200
1234	ELEC-9.4.7	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 6 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 9.4 kg, empty wt.3.4 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -4 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyester powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Minimax	1 No	7200

1235	ELEC-9.4.8	Supply and fixing of ISI mark (IS:15683) Mono ammonium phosphate powder 90 (MAP) 6 Kg Fire extinguisher, stored pressure type, pressure gauge, gross wt. 9.4 kg, empty wt.3.4 kg, Discharge time minimum 13 sec, controllable discharge mechanism, range min. 4 mts applicable on classes A,B, C & electrically started fire, A rating -4 A, B rating -34 B, can construction: Deep drawn and Co2 mig welding, Valve construction: Forging & Machining, internal coating of can: Epoxy powder coating, External coating of Can:Epoxy polyster powder coating, sheet metal thickness:1.60mm, Helium leak detection tested with 5 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Safex / Kenex / Bharat / Reliance.	1 No	5750
		SOR 2015-2016 Deleted ELEC-9.4.9		Deleted
		SOR 2015-2016 Deleted ELEC-9.4.10		Deleted
		CLEAN AGENT FIRE EXTINGUISHERS		
1236	ELEC-9.4.9	Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 2 Kg Fire extinguisher , Stored pressure type, pressure guage, gross weight 3.7Kg , empty weight 1.7 Kg, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating- 1A, B rating- 21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyster powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty Makes: Ceasefire / Minimax)	1 No	12830
1237	ELEC-9.4.10	Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 4 Kg Fire extinguisher , Stored pressure type, pressure guage, gross weight 6.9Kg , empty weight 2.9 Kg, discharge time minimum 8 secs, controllable discharge mechanism, range minimum 2 meters, applicable on class A,B,C and electrically started Fire, A rating- 1A, B rating- 21B, can construction: Deep drawn & CO2 mig welded, Valve construction: Forging & Machining, Internal coating of Can: Epoxy powder coating, External coating of can: Epoxy polyster powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty. Makes: Ceasefire / Minimax)	1 No	22600

1238	ELEC-9.4.11	Supply and fixing of Co2 type Fire Extinguishers 4.5 Kg capacity confirming to IS 2878 made from ISI marked steam less cylinder confirming to IS:7285 & CE certified and fitted with ISI marked controlled valve confirming to IS:3224, high pressure 1 Mtr discharge hose & horn complete with initial gas charged with carrying handle with wheels and wall mounting bracket. Squeeze lever discharge, used un-used indicator, Aphoxy coated paint (Red) with 93% gloss with 2 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Cease Fire / Minimax	1 No	9900
1239	ELEC-9.4.12	Supply and fixing of Co2 type Fire Extinguishers 4.5 Kg capacity confirming to IS 2878 made from ISI marked steam less cylinder confirming to IS:7285 & CE certified and fitted with ISI marked controlled valve confirming to IS:3224, high pressure 1 Mtr discharge hose & horn complete with initial gas charged with carrying handle with wheels and wall mounting bracket. Squeeze lever discharge, used un-used indicator, Aphoxy coated paint (Red) with 93% gloss with 2 years warranty Including transportation, all taxes and all labour charges etc complete. Makes: Safex / Kenex / Bharat / Reliance.	1 No	7400
		SOR 2015-2016 Deleted ELEC-9.4.15		Deleted
		SOR 2015-2016 Deleted ELEC-9.4.16		Deleted
		SOR 2015-2016 Deleted ELEC-9.4.17		Deleted
1240	ELEC-9.4.13	Supply and fixing of Escape signage boards in Rigid Photo luminecent based glow in Dark rigid sheet with high intensity luminous properties with specificaiton. Makes: Cease Fire or its equivalent make Model-1ES01	1 No	1300
1241	ELEC-9.4.14	Supply and fixing of Cease fire or its equivalent Escape gear Mild Steel box size 425mmx360mmx140mm Epoxy powder coated to protect it from Weathering , smoke hood tested to Eupropean Standard EN 403 1993-S known to reduce Carbon Monoxide, propend(acrloein), hydrogen chloride, hydrogen Cyanide and Solid and liquid toxic particles to manageable level for atleast 15 minutes shall with stand tempeartures upto 80 degrees single use only Fire Blanket size 1.2m x1.8m used to cover any vessel containing used to Extinguish a clothing fire wrap blanket around the victim.	1 No	15000
1242	ELEC-9.4.15	Supply and fixing of 4Nos of 9 Ltrs capacity round bottom sand buckets along with bucket sand, Fire buckets with round bottom type enamel painted, white inside & red out side and letter FIRE inblack out side & Handle with mounting bracket.	1 Set	1200

1243	ELEC-9.4.16	Supply and 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
		AEROSOL GENERATION SYSTEM (AGS) AND FIRE EXTINGUISHERS		
1244	ELEC-9.4.17	Supply and installation of manually operated suppression system for all classes of fire with active substance of 3.3 kg and does cooling effect with no re-ignition. The product is eco friendly with minimum life of 15 years . The discharge time should be 25 sec and has net weight of 4.6 kg and has a capacity to cover 60 m ³ and is confirmed to NFPA 2010 and other national and international certificates. Make: SEAARA / AGS / SALAMANDRA.	1 No	65000
1245	ELEC-9.4.18	Supply and installation of Auto Detection and suppression system used for all classes of fire with active substance of 1.6 kg. It can be connected with smoke / Heat detector with control panel and hooter with cross zoning facility to kill the fire and does cooling effect with no re-ignition. The product is eco friendly with minimum life of 15 years . The discharge time should be 45 sec and has net weight of 4.6 kg and has a capacity to cover 21 m ³ and is confirmed to NFPA 2010 and other national and international certificates. Make: SEAARA / DSPA / SALAMANDRA	1 No	68000
1246	ELEC-9.4.19	Supply and installation of Auto Detection and Suppression system used for all classes of fire with active substance of 5.7 Kg. It can be connected with smoke / Heat detector with control panel and hooter with cross zoning facility to kill the fire and does cooling effect with no re-ignition. The product is eco friendly with minimum life of 15 years . The discharge time should be 165 sec and has net weight of 10.8kg and has a capacity to cover 134 m ³ and is confirmed to NFPA 2010 and other national and international certificates. Make: SEAARA / DSPA / SALAMANDRA	1 No	100000
1247	ELEC-9.4.20	Supply and installation of Auto Detection and Suppression system used for all classes of fire with active substance of 3.4 kg. It can be connected with smoke / Heat detector with control panel and hooter with cross zoning facility to kill the fire and does cooling effect with no re-ignition. The product is eco friendly with minimum life of 15 years . The discharge time should be 37 sec and has net weight of 12.5kg and has a capacity to cover 52 m ³ and is confirmed to NFPA 2010 and other national and international certificates. Makes: SEAARA / AGS / SALAMANDRA	1 No	85000

1248	ELEC-9.4.21	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 reputed brand.	1 No	175000
1249	ELEC-9.4.22	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 Discharge time should be 21 sec. The Generator has a net weight of 1.2 kg. Active Substance of 0.3 kg . The Generator is suitable for Server Room, Electrical Storage and technical appliances, important documents area & etc. approved by NFAP2010, UL & EN. Makes: SEAARA / AGS or equivalent		40000
1250	ELEC-9.4.23	Supply of Aerosol Heat Starter Sprinkler used for Auto Detection and Suppression 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		8500

1251	ELEC-9.4.24	Supply, installation, testing and commissioning of Addressable Control panel 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. Makes : SALAMANDRA / SEAARA / AGS or equivalent brand	1 No	46000
1252	ELEC-9.4.25	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. Makes : SALAMANDRA / SEAARA / AGS		2500
1253	ELEC-9.4.26	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. Makes : SALAMANDRA / SEAARA / AGS		2900

1254	ELEC-9.4.27	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. Makes : SALAMANDRA / SEAARA / AGS		3300
	9.5	FIRE HYDRANT AND SPRINKLER SYSTEM		
1255	ELEC-9.5.1	Supplying, installation, testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following complete in all respect as required	1 Set	354000
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 1620 lpm at 56 Mtr. head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
1256	ELEC-9.5.2	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	390000
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 Mtr. head conforming to IS 1520		

		b) Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
1257	ELEC-9.5.3	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	446400
		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		
1258	ELEC-9.5.4	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	468000
		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		
1259	ELEC-9.5.5	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	678000
		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		
1260	ELEC-9.5.6	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	762000

		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		
1261	ELEC-9.5.7	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	268750
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 171 Cum/hr (2850 LPM) at total head 70 M at operating speed 2900 rpm. Pump duty as per TAC		
		b) 55 KW / 75 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
1262	ELEC-9.5.8	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	556250

		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 171 Cum/hr(2850 LPM) at a total head of 70 M when operated at 1800 rpm and pump duty as per TAC		
		b) Liquid cooled, 85 BHP at 1800 rpm, diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt		
1263	ELEC-9.5.9	Supplying , installation , testing and commissioning of electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	218750
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 137 Cum/hr (2280 LPM) at total head 70 mwc at operating speed 2900 rpm. Pump duty as per TAC		
		b) 45 KW / 60 HP, 3000 srpm, TEFC (IP55) Horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 225 M frame		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
1264	ELEC-9.5.10	Supplying, installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	443750
		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 137 Cum/hr(2280 LPM) at a total head of 70 M when operated at 2150 rpm and pump duty as per TAC		
		b) Liquid cooled, 68 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		

		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt		
1265	ELEC-9.5.11	Supplying, installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	161250
		a) End suction back pull out centrifugal pump, Std fitted with BRONZE IMPELLER & gland packing ,capacity 97 Cum/hr (1620 LPM) at total head 56 mwc at operating speed 2900 rpm. Pump duty as per TAC		
		b) 30 KW / 40 HP, 3000 srpm, TEFC (IP55) horizontal foot mounted, squirrel cage induction motor, suitable for 415 volts +/- 10%, 3 Ph, 50 Hz +/-5%, a.c.supply. Class 'F' insulated and suitable for ambient temperature up to 50 deg C. Motor in frame SC 250 M frame for driving above pump.		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
1266	ELEC-9.5.12	Supplying , installation, Testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	387500
		a) End suction back pull out pump, Std fitted with BRONZE Impeller & gland packing, capable of delivering 97 Cum/hr(1620 LPM) at a total head of 56 M when operated at 2150 rpm and pump duty as per TAC		
		b) Liquid cooled, 50 BHP at 1800 rpm, Diesel engine (Radiator cooled) 12 Volts starting system with standard accessories		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Engines : Kirloskar / Cummins. Makes of Pumps : Kirloskar / Mather&Platt		

1267	ELEC-9.5.13	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	55000
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 56 Mtr head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar		
1268	ELEC-9.5.14	Supplying , installation , testing and commissioning of electric driven pressurisation / Jockey pump suitable for automatic operation and consisting of following : complete in all respect as required	1 Set	77860
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 70 Mtr head conforming to IS 1520		
		b) Suitable HP SQ cage induction motor TEFC type suitable for operation on 415Volts, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps : Kirloskar / Mather&Platt. Makes of Motors : Siemens/ ABB/ Kirloskar		
1269	ELEC-9.5.15	Supplying , installation , testing and commissioning of electric driven Terrace / Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	62450

		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		
1270	ELEC-9.5.16	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	48400
		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		
1271	ELEC-9.5.17	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	46245
		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		
1272	ELEC-9.5.18	Supplying , installation , testing and commissioning of electric driven Terrace / Mono Bloc Booster pump suitable for automatic operation and consisting of following : complete in all respect as required.	1 Set	42542
		a) Horizontal type, centrifugal End Suction pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 450 lpm at 35 Mtr head conforming to IS 1520		
		b) Three Phase High Speed Centrifugal Pump. Pump with CI Impeller and Gland Packing with 5 KW / 7.5 HP, 2 pole, TEFC, 415 V, 3ph motor		
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : Kirloskar		
1273	ELEC-9.5.19	Providing , laying, testing & Commissioning of following classes MS pipes conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc., complete. Makes: Jindal / Hissar / Tata pipes		
	a	(a) 250 mm dia	1 Mtr	3245
	b	(b) 200 mm dia 'C' Class	1 Mtr	3210
	c	(c) 200 mm dia 'B' Class	1 Mtr	2800
	d	(d) 150 mm dia 'C' Class	1 Mtr	2400
	e	(e) 150 mm dia 'B' Class	1 Mtr	1930
	f	(f) 100 mm dia 'C' Class	1 Mtr	1515
	g	(g) 100 mm dia 'B' Class	1 Mtr	1275
	h	(h) 80 mm dia 'C' Class	1 Mtr	1000
	i	(i) 80 mm dia 'B' Class	1 Mtr	895
	j	(j) 65 mm dia 'C' Class	1 Mtr	750
	k	(k) 65 mm dia 'B' Class	1 Mtr	675
	l	(l) 50 mm dia 'C' Class	1 Mtr	600

	m	(m) 50 mm dia 'B' Class	1 Mtr	530
	n	(n) 40 mm dia	1 Mtr	512
	o	(o) 32 mm dia 'C' Class	1 Mtr	400
	p	(p) 32 mm dia 'B' Class	1 Mtr	330
	q	(q) 25 mm dia 'C' Class	1 Mtr	300
	r	(r) 25 mm dia 'B' Class	1 Mtr	270
1274	ELEC-9.5.20	Supplying and fixing single headed Internal / External hydrant valve with instantaneous Gun metal couplings of 63mm dia with Cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gun Metal cap and chain as required. Makes: Newage/ Winco/ Padmini / Safex/Minimax	1 No	8125
1275	ELEC-9.5.21	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze / Gun metal seat duly ISI marked complete with Nuts, Bolts, Washers, gaskets, conforming to IS 13095 of following sizes as required. Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve.		
	a	(a) 250 mm . dia	1 No	12525
	b	(b) 200 mm . dia	1 No	5300
	c	(c) 150 mm dia	1 No	4350
	d	(d) 100 mm dia	1 No	3400
	e	(e) 80 mm dia	1 No	3100
1276	ELEC-9.5.22	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	(a) 200 mm dia	1 No	5000
	b	(b) 150 mm dia	1 No	4000
	c	(c) 100 mm dia	1 No	3725
	d	(d) 80 mm dia	1 No	3500
	e	(e) 50 mm dia	1 No	1723

1277	ELEC-9.5.23	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	(a) 250 mm . dia	1 No	17000
	b	(b) 200 mm . dia	1 No	11850
	c	(c) 150 mm dia	1 No	7625
	d	(d) 100 mm dia	1 No	5075
	e	(e) 80 mm dia	1 No	3800
	f	(f) 50 mm dia	1 No	3050
1278	ELEC-9.5.24	Providing, installation, testing and commissioning of gun metal valves of following sizes as required. Make: Newage/ Winco/ Padmini		
		(a) 50 mm dia	1 No	1750
		(b) 40 mm dia	1 No	1400
		(c) 32 mm dia	1 No	1250
1279	ELEC-9.5.25	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. Makes: Newage/ Winco/ Padmini / Safex / Minimax	1 No	6140
1280	ELEC-9.5.26	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. Makes: Newage/ Winco/ Padmini / Safex / Minimax	1 No	5510
1281	ELEC-9.5.27	Supplying and fixing First -Aid Hose Reel with MS construction spray painted in Post office Red, Conforming to Is 884 with upto date amendments, complete with the following as required.	1 No	7500
		a) 36.6 Mtr Long 20mm (Nominal internal) dia water hose Thermoplastic / Textile reinforced / Rubber braided / Polypropylene Type - 2 as per IS:12585 Makes: Eversafe/ Reliance/ Newage/ SRI / Safex		
		b) 20mm (Nominal internal) dia gun metal globe valve and nozzle. Makes: 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.		
1282	ELEC-9.5.28	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.	1 No	3250
1283	ELEC-9.5.29	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. Makes: Newage/ Winco/ Padmini / Safex / Minimax	1 No	2530
1284	ELEC-9.5.30	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. Makes: Newage/ Winco/ Padmini / Safex / Minimax	1 No	9100
1285	ELEC-9.5.31	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. Makes: Newage/ Winco/ Padmini / Safex / Minimax	1 No	6900
1286	ELEC-9.5.32	Supply and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia Gun metal wheel valve, with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	1 No	16000
1287	ELEC-9.5.33	Providing fixing, testing and commissioning of 15mm size quartzoid bulb type sprinklers of rating 68° C. pendent / side wall with required accessories. Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX	1 No	490
1288	ELEC-9.5.34	Providing and fixing of Pressure Switch in the MS pipe Line including connection etc as required. Makes : Danfoss / Indfoss / Approved makes	1 No	2500
1289	ELEC-9.5.35	Providing and fixing Flow Switches in 100mm dia MS pipe. Makes : System Sensor / Switzer / Approved makes	1 No	5375
1290	ELEC-9.5.36	Providing and fixing Flow Switches in 150 mm dia MS pipe. Makes : System Sensor / Switzer / Approved makes	1 No	7500
1291	ELEC-9.5.37	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation	1 No	675

		valve and pipe having calibration of 0-16 kg/cm ² . MAKES: HGURU / FIEBIG and Approved makes		
1292	ELEC-9.5.38	Supply, installation, testing and commissioning of 25mm dia Gate valve Makes : Zoloto / Leader / Approved makes	1 No	1175
1293	ELEC-9.5.39	Supply, installation, testing and commissioning of 25mm dia Ball valve Makes : Zoloto / Leader / Approved makes	1 No	650
1294	ELEC-9.5.40	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve	1 No	1250
1295	ELEC-9.5.41	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
1296	ELEC-9.5.42	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	a) 200mm nominal dia	1 Ea	24800
	b	b) 150mm nominal dia	1 Ea	13300
	c	c) 100mm nominal dia	1 Ea	7450
	d	d) 80mm nominal dia	1 Ea	5100
	e	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings		
1297	ELEC-9.5.43	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.		
	a	a) 150mm nominal dia	1 Mtr	200
	b	b) 100mm nominal dia	1 Mtr	175
	c	c) 80mm nominal dia	1 Mtr	125
1298	ELEC-9.5.44	Supply, fabricating, installing structural steel supports for fixing all sizes of MS pipes from ceiling / wall with MS	1 Kg	70

		Channels, Angles, Flats, Rods, as required at site with anchor fasteners, Clamps, threaded rods, nuts, bolts, washers etc complete with painting.		
1299	ELEC-9.5.45	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	95
1300	ELEC-9.5.46	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	125
1301	ELEC-9.5.47	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	120
1302	ELEC-9.5.48	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	165
1303	ELEC-9.5.49	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	275
1304	ELEC-9.5.50	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 / CCI / Unicab / Polycab / Finolex / KEI / Havells.	1 Mtr	235
1305	10.1	GENERATORS SPECIFICATION		
1306	ELEC-10.1.1	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 : 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. Make: Kirloskar / Stamford / Crompton Greaves / Leroy Somer		
		B.Diesel Engine : Kirloskar / Cummins / Mahindra & Mahindra Diesel Engine start, developing suitable ----- -- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc. 01. Exhaust pipe of required size and length with insulation or cladding. 02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards		
	a	.....do.....15KVA, 3 Phase, 415, 50Hz, 19BHP, water cooled multi cylinder diesel generator set with alternator of 15 KVA out put continous rating at 0.8 p.f, Batteries.	1 No	385000
	b	.....do.....30KVA, 3 Phase, 415, 50Hz, 40 to 42 BHP, water cooled multi cylinder diesel generator set with alternator of 30KVA out put continous rating at 0.8 p.f, Batteries.	1 No	495000
	c	.....do.....40KVA, 3 Phase, 415, 50Hz, 56BHP, water cooled multi cylinder diesel generator set with alternator of 40 KVA out put continous rating at 0.8 p.f, and Batteries .	1 No	615000
1307	ELEC-10.1.2	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 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 : 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. Makes: Kirloskar / Stamford / Crompton Greaves / Leroy Somer.		

		<p>B.Diesel Engine : Kirloskar / Cummins / Mahindra & Mahindra Diesel Engine start, developing suitable ----- -- BHP output at 1500 RPM with mechanical / electronic governing so as to enable the alternator to give - - - -KVA continuous output at 0.8 P.F. lagging at NTP conditions. The diesel engine shall be capable of providing 10% O/L for 1 Hr for every 11 Hrs of continuous running at full load. The engine with 1st filling of oil and Diesel etc. 01. Exhaust pipe of required size and length with insulation or clading. 02. Diesel tank suitable for 8 to 12 Hours running capacity. 03. Residential Silencer. 04. SMF Batteries with leads as per the Manufacturer standards</p>		
		<p>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</p>		
	a	<p>.....do..... 63.00KVA, 3 Phase, 415, 50Hz, 78 to 83BHP, water cooled multi cylinder diesel generator set with alternator of 63KVA out put continous rating at 0.8 p.f, and Batteries .</p>	1 No	772000
	b	<p>125KVA, 3 Phase, 415, 50Hz, 154BHP, water cooled multi cylinder diesel generator set with alternator of 125 KVA out put continous rating at 0.8 p.f, and Batteries .</p>	1 No	1047500

1308	ELEC-10.1.3	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 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 : 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. Makes: Kirloskar / Stamford / Crompton Greaves / Leroy Somer.		
		B. Diesel Engine : Kirloskar / Cummins / Catterpillar / Mahindra & Mahindra or SCANIA 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	.....do.....160KVA, 3 Phase, 415, 50Hz, 200BHP, water cooled multi cylinder diesel generator set with alternator of 160 KVA out put continous rating at 0.8 p.f, and Batteries .	1 No	1430000
	b	.....do.....250KVA, 3 Phase, 415, 50Hz, 310BHP, water cooled multi cylinder diesel generator set with alternator of 250 KVA out put continous rating at 0.8 p.f, and Batteries	1 No	2200000
	c	.....do..... 320KVA, 3 Phase, 415, 50Hz, 380BHP, water cooled multi cylinder diesel generator set with alternator of 45 KVA out put continous rating at 0.8 p.f, and Batteries	1 No	2860000
	11.1	UPS SYSTEMS		
1309	ELEC-11.1.1	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.	1 No	9500
1310	ELEC-11.1.2	Supply and installation of 1400VA, 24VDC home UPS system pure sine wave out put, single phase input / Single phase output. Makes: Servomax / Top Power / Amar Raja / Samhitha / Sukhila.	1 No	13500
1311	ELEC-11.1.3	Supply and installation of 2000VA, 36VDC home UPS system pure sine wave out put, single phase input / Single phase output. Makes: Servomax / Top Power / Amar Raja / Samhitha / Sukhila.	1 No	19200
1312	ELEC-11.1.4	Supply and installation of 2.0KVA true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: CONSUL / Power one / Numeric / Emerson.	1 No	29400

1313	ELEC-11.1.5	Supply and installation of 3.0KVA, 72VDC true on line UPS system IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: CONSUL / Power one / Numeric / Emerson.	1 No	39500
1314	ELEC-11.1.6	Supply and installation of 5.0KVA, 180 / 192V DC 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
1315	ELEC-11.1.7	Supply and installation of 7.5KVA, 180 / 192V DC 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
1316	ELEC-11.1.8	Supply and installation of 10KVA, 180 / 192V DC 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
1317	ELEC-11.1.9	Supply and installation of 10KVA, 312V DC true on line UPS system IGBT based rectifier with input power factor correction, 32 bit micro processor based with isolation transformers , double conversion , SNMP controls, LCD Display ,Pure Sine wave output , with auto static switch, 3 phase input / 3 phase output and modular structure for better thermal technology with warranty upto 3 years.tMakes: CONSUL / Numeric / Emerson / APC .	1 No	180000
1318	ELEC-11.1.10	Supply and installation of 15KVA, 312V DC true on line UPS system IGBT based rectifier with input power factor correction, 32 bit micro processor based with isolation transformers , double conversion , SNMP controls, LCD Display ,Pure Sine wave output , with auto static switch, 3 phase input / 3 phase output and modular structure for better thermal technology with warranty upto 3 years.tMakes: CONSUL / Numeric / Emerson / APC .	1 No	200000
1319	ELEC-11.1.11	Supply and providing of UPS cum battery rack up to 4 batteries	1 No	1500
1320	ELEC-11.1.12	Supply and providing of UPS cum battery rack 5 to 10 batteries	1 No	2875
1321	ELEC-11.1.13	Supply and providing of UPS cum battery rack upto 11 to 20 batteries	1 No	5175
1322	ELEC-11.1.14	Supply and fixing of 12V 26 AH SMF battery including wire leads Makes: Quanta / Racket / Exide.	1 No	3850

1323	ELEC-11.1.15	Supply and fixing of 12V 42 AH SMF battery including wire leads Makes: Quanta / Racket / Exide.	1 No	6446
1324	ELEC-11.1.16	Supply and fixing of 12V 65 AH SMF battery including wire leads Makes: Quanta / Racket / Exide.	1 No	7970
1325	ELEC-11.1.17	Supply and fixing of 12V 100 AH SMF battery including wire leads Makes: Quanta / Racket / Exide.	1 No	9900
1326	ELEC-11.1.18	Supply and fixing of 12V 120 AH SMF battery including wire leads Makes: Quanta / Racket / Exide.	1 No	10500.00
		SOR 2015-2016 Deleted ELEC-11.1.19		Deleted
1327	ELEC-11.1.19	Supply and fixing of 12V, 120 AH MF battery including wire leads Makes: Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1 No	9965.00
1328	ELEC-11.1.20	Supply and fixing of 12V, 150 AH MF battery including wire leads Makes: Amar Raja (Power Zone) or Equivalent model of Exide / Panasonic / Gotech.	1 No	12750.00

GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

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

INDUSTRIES AND COMMERCE (M.I) DEPARTMENT

G.O.Ms.No:100

Dated:31.10.2015
Read the following:

- 1. G.O.Ms.No. 198, Ind. & Com. (M.I) Dept., dt. 13.08.2009.
- 2. Director of Mines & Geology, Letter No. 7598/P-MR/2014, dated. 09.10.2015.

ORDER:

The following notification will be published in the Extra-Ordinary issue of the Andhra Pradesh Gazette dated. 01.11.2015.

NOTIFICATION

In exercise of the powers conferred by sub-section (1) of section 15 of the Mines & Minerals (Development and Regulation) Act, 1957 (Central Act 67 of 1957), the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No. 1172, Industries and Commerce (M.I) Department, dated. 04.09.1967 and subsequently amended from time to time.

AMENDMENTS

In the said rules, Under Rule 10 for Schedules I and II, the following shall be substituted, namely;

"SCHEDULE-I"
RATES OF SEIGNIORAGE FEE

Sl. No.	Name of the Minor Mineral	Unit	Rate of Seigniorage Fee (in Rupees)
1	Building Stone	M3/MT	Rs.75 / 50 (Rupees Seventy five / Fifty)
2	Rough Stone/Boulders		
2a	Manufactured Sand		
3	Road Metal & Ballast		
3a	Dimensional Stone used for Kerbs & Cubes	MT	Rs. 110 (Rupees one hundred and ten)
4	Lime kankar/Limestone	MT	Rs. 80 (Rupees Eighty)
5	Lime shell	MT	Rs. 100 (Rupees one hundred)
6	Marble	M3/MT	Rs. 250 / 100 (Rupees Two hundred fifty / one hundred)
7	Mosaic Chips	MT	Rs. 50 (Rupees fifty)
8	Morrum /Gravel & Ord. Earth	M3/MT	Rs. 30/20 (Rupees Thirty / Twenty)

9	Ordinary Sand	M3	Rs. 50 (Rupees fifty)
10	Shingle	M3/MT	Rs. 75/50 (Rupees Seventy five / Fifty)
11	Chalacedony Pebbles	M3/MT	Rs. 75/50 (Rupees Seventy five / Fifty)
12	Fullers Earth/Bentonite	MT	Rs. 150 (Rupees one hundred and fifty)
13	Shale/Slate	MT	Rs. 150 (Rupees one hundred and fifty)
14	Rehmati	M3/MT	Rs. 30/20 (Rupees Thirty / Twenty)
15	Limestone Slabs:		
(i)	Colour	Sq.Mt/MT	Rs. 8/- (Rupees Eight) per Sq.Mt or Rs. 100/- (Rupees Hundred) per MT whichever is higher.
(ii)	White	Sq.Mt/MT	
(iii)	Black	Sq.Mt/MT	
16	Ordinary Clay, Silt and Brick Earth used in the Manufacture of Bricks including Mangalore Tiles	-	Rs. 6000/- (Rupees Six thousand) per kiln per annum for Bricks and Tiles.

17. Granite Useful for Cutting:

	Item	Unit	Super Gang Saw above 300cmX 180cm size.	Mini Gang Saw above 270cmX150cm size.	270cmX 150cm and below size.	Below 75cm size.
1	Black Granite Galaxy variety	M3	Rs. 4000/- (Rupees four thousand)	Rs. 3200/- (Rupees Three thousand two hundred)	Rs. 3000/- (Rupees Three thousand)	Rs. 1350/- (Rupees one thousand three hundred fifty)
2	Black Granite other than Galaxy variety	M3	Rs. 3000/- (Rupees Three thousand)	Rs. 2500/- (Rupees Two thousand five hundred)	Rs. 2350/- (Rupees Two thousand three hundred fifty)	Rs. 1000/- (Rupees Thousand)
3	Colour Granite Srikakulam Blue, Moon white, River white of Visakhapatnam Dist., Leptinites of Coastal Dists., Black pearl of Prakasam and Guntur Dists.,	M3	Rs. 3000/- (Rupees Three thousand)	Rs. 2500/- (Rupees Two thousand five hundred)	Rs. 2350/- (Rupees Two thousand three hundred fifty)	Rs. 1000/- (Rupees Thousand)

4	Colour Granite of other varieties	M3	Rs. 2350/- (Rupees Two thousand three hundred fifty)	Rs. 2150/- (Rupees Two thousand one hundred fifty)	Rs. 2000/- (Rupees Two thousand)	Rs. 1000/- (Rupees Thousand)
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SCHEDULE-II
Rate of Dead Rent

Sl. No.	Name of the Minor Mineral	Rate of Dead Rent per hectare per Annum (in Rupees)
1	Black Granite	Rs.1,00,000/- (Rupees one lakh)
2	Colour Granite	Rs.1,00,000/- (Rupees one lakh)
3	Limestone other than classified as major minerals used for lime burning for Building construction purposes, marble, boulders, building stone including stone used for Road Metal, Ballast concrete & other construction purpose, Shale, Slate & Phyllites, Mosaic Chips, Fullers Earth/Bentonite & Dimensional Stone used for Cubes and Kerbs.	Rs.50,000/- (Rupees Fifty thousand)
4	Gravel, Morrum, Ordinary Earth, Shingle, Limestone Slabs used for flooring purpose Limekankar, Chalcedony Pebbles used in the building purpose Lime-shell for burning used for building purpose and Rehmati.	Rs.40,000/- (Rupees Forty thousand)

2. This order shall come into force w.e.f. 01.11.2015.
3. This order issued with the concurrence of Finance Department vide their No. 4519/PFS/2015, Dt.12.10.2015.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

M. GIRIJA SHANKAR,
SECRETARY TO GOVERNMENT (MINES & FP) (FAC)

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 Andhra Pradesh, and arrange to send 1000 copies of the same to Government in Industries & Commerce (M.I) Department).

The Director of Mines & Geology, Andhra Pradesh, Hyderabad.

The Chief Executive Officer, SERP, Hyderabad.

All the Joint Director / Deputy Director / Asst. Director of Mines & Geology through the Director of Mines & Geology, Hyderabad.

Copy to:

The Secretary to Govt, Ministry of Mines, GoI.

The Law (A) Department.

The Finance Department.

The P.S to Hon’ble Minister for Women Empowerment, Child Welfare and Disabled & Senior Citizens Welfare and Mines & Geology.

The Secretary to Govt., (Mines), CM’s office.

SF/SC

//FORWARDED: BY ORDER//

SECTION OFFICER