



Government of Andhra Pradesh

**COMMON SCHEDULE OF RATES
AS PER
A.P. REVISED STANDARD
DATA FOR THE YEAR 2020-21
(Effective from 1st June, 2020)**

BOARD OF CHIEF ENGINEERS

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Office of the Engineer-in-Chief (A.W/I.W)
Water Resources Dept., Currency Nagar, Vijayawada.

Procs.No.ENC/IW/P&M/EE.1/DEE-3/AEE (N)/ SoR 2020-21/Vol.1 dt:16 .09.2020

Sub: Schedule of Rates for the year 2020-21 with basic rates (excluding GST) (as per A.P.Revised Standard Data) -Part-I(Water Resources Dept. Works), Part-2(Road & Bridge Works) and Part-4 (Public Health Works) approved - Printing& Communication of SoRs - Reg.

- Ref:**
1. G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009
 2. ENC (PH) Lr.No. 146/T4/SoR 2020-21 dt: 20.07.2020.
 3. CE(R&B),Admn Lr.No.SoR-II/ ENC/ DEC(R)/ EE (TEC)/ DEE6/AEE2 /2020 dt: 17.07.2020.
 4. Average rise in the Consumer Price Index for State Industrial Workers for half year ending December,2019 as on 01-04-2020, declared by the Commissioner of Labour, Andhra Pradesh, Vijayawada vide A.P. Gazette no.J / 3432179 /2020 dt.07.05.2020 under Minimum Wages Act, 1948.
 5. T.O. Lr. No. ENC/ IW/SE(P&M)/ EE.I/ DEE.3/ AEE(N)/ SoR 2020-21/ Vol.I dt. 25.08.2020 along with the minutes of Annual Schedule of Rates meeting for the year 2020-21 held on 14.08.2020.
 6. ENC (PH) Lr.No. 146/T4/SoR 2020-21 dt: 03.09.2020.
 7. CE(R&B),Admn Lr.No.SoR-II/ CE(Admn)/ DEC(R)/ EE(TEC)/ DEE 6/AEE2 /2020 dt:04.09.2020

The Government have approved A.P.Revised Standard Data vide ref 1st cited. The Schedule of Rates with basic rates(excluding GST) as per the A.P.Revised Standard Data for the year 2020-21 is approved based on the following:

The ENC(R&B) vide ref. 3rd cited has furnished the draft basic rates exclusive of GST for Roads & Bridge items for the year 2020-21.

The Engineer-in-Chief, Public Health Department has furnished draft basic rates exclusive of GST for Public Health works items and Public Health Materials vide ref 2nd cited.

For Water Resources Department work items, the Regional Superintending Engineers: SE, IC, Dowlaiswaram, SE, IC, Chittoor 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 the rates as recommended by Regional Superintending Engineers duly keeping in view of the minimum wages as declared by the Commissioner, Labour Department vide ref 4th cited and also COVID-19 Pandemic situation.

Due to COVID-19 Pandemic, the market rates of the materials prevalent during the month of June-2020 are considered.

Based on the above proposals, the draft Schedule of Rates for the part I(WR items), Part-II(Roads & Bridge items) & Part-IV(PH items) are prepared for the SoR year 2020-21 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 annual SoR meeting held on 14.08.2020 in the conference hall of Engineer-in-Chief (A.W/I.W), Vijayawada.

The minutes containing the recommendations of the BoCEs, vide reference 5th cited, are forwarded to CE(R&B) and ENC (PH) for updating the draft rates.

Based on the minutes of meeting, the ENC (PH) and CE(R&B), Admn have furnished, vide references 6th and 7th cited above, the final copies of PART-II and PART-IV respectively for incorporating into SoR-2020-21.

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 (excluding GST) are applicable to the data 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.

As per the email request received from APCFSS, a unique CFMS code for each material is introduced in SoR 2020-21 for the sake of user convenience.

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 2020-21. Unauthorized printing & selling of the SoR is strictly prohibited.

Any discrepancies found (or) corrections required in SoR 2020-21 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1st June of 2020.

The receipt of the proceedings may be acknowledged in the 1st instance.

Encl: SoR 2020-21 containing Part-I (Water Resources Dept. works), Part-II (Roads & Bridge works), Part-III (Buildings) and Part-IV (Public Health Items)

**Sd/-K.Jalandhar.dt.16.09.2020
Engineer-in-Chief(A.W./ I.W.)
Chairman, BOCE(SoR)**

- I) Copy submitted to the Special Chief Secretary to Govt., WR Dept., 4th Block, A.P.Secretariat Buildings, Velagapudi, Amaravathi.
- II) Copy communicated to the following Heads of Departments along with enclosures for information.
 1. Chief Engineer (Admn.,) Roads & Buildings Department.
 2. Engineer-in-Chief, Public Health Department.
 3. Engineer-in-Chief, Panchayath Raj Department.
 4. Engineer-in-Chief, RWS, Department.
 5. Chief Engineer (Buildings & RSW), R&B Department.
- III) Copy of Scheduled of Rates 2020-21 with basic rates & 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
- IV) Copy to DEE (Computers), EnC(AW) for uploading the approved SoR-2020-21 (part-I, Part-II, Part-III & Part-IV) on the Water Resources Department website and to forward this proceedings to all the members of the Board of Chief Engineers through E-mail.

**Sd/-K.Jalandhar.dt.16.09.2020
Engineer-in-Chief (A.W/I.W.)
Chairman, BOCE (SoR)**

Important – Read The following

ANNEXURE- A

- 1)** The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of 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.
- 3)** 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 /estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.
- 4)** Any discrepancies / corrections required for improper basic input data appearing in the approved data of Water Resources work items in the software package and hard copy of SoR & Standard data (part-1) may be brought to the notice of undersigned for issuing corrections.

Sd/-K.jalandhar,dt.16.09.2020
Engineer-in-Chief (A.W/I.W)
Chairman, BOCE(SoR)

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PREAMBLE

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 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).
- (iii) 40% extra over the rates on labour component of works for Amaravati Capital City area(217 sq.km) as declared by the Govt.vide G.O.Ms.No.141,MA&UD (M2)Dept., dt:09.06.2015(This is introduced as per the Govt instructions issued in Govt.memo.No.668755/Reforms/2017 d:14.07.2017).
- 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, Kapilatheerthm, 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, Ibrahimpattanam, Vuyyuru, Jaggaiahpetta 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 in 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.

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.11 (Industries and Commerce Dept.) dt: 11.02.2020. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

LABOUR RATES

LABOUR RATES

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2020-21
1	2	3	4
I.		SKILLED CATEGORY:	
1	LAB-00001	Bar bender	665
2	LAB-00002	Black smith / Tin smith / Rivetor	525
3	LAB-00003	Blaster	605
4	LAB-00004	Carpenter Cl- I	615
5	LAB-00005	Electrician (Licensed)	610
6	LAB-00006	Fitter Cl- I	585
7	LAB-00007	Floor Polisher / Tile Layer	525
8	LAB-00008	Foreman	605
9	LAB-00009	Gauge reader	510
10	LAB-00010	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	600
11	LAB-00011	Mason Cl- I / Brick layer Cl- I	550
12	LAB-00012	Mechanic Cl- I	560
13	LAB-00013	Operator Air compressor / DG set	540
14	LAB-00014	Operator Batching plant	610
15	LAB-00015	Operator Bus/Ambulance/ Lorry/ Tanker	605
16	LAB-00016	Operator Concrete / Asphalt mixer	540
17	LAB-00017	Operator Concrete / Asphalt paver	540
18	LAB-00018	Operator Concrete pump / Placer/ ice plant	540
19	LAB-00019	Operator Core drilling machine	605
20	LAB-00020	Operator Crane/ Tower crane/ Cable way	605
21	LAB-00021	Operator Drilling jumbo / Loco / Winch	540
22	LAB-00022	Operator Grouting/ Guniting/ Shotcreting	540
23	LAB-00023	Operator Jackhammer/Pneumatic tamper	540
24	LAB-00024	Operator Pump / Ventilation fan	540
25	LAB-00025	Operator Lathe/Drilling/Shearing machine	605
26	LAB-00026	Operator Bending / Planing machine	540
27	LAB-00027	Operator Road roller	560

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2020-21
1	2	3	4
28	LAB-00028	Operator Shovel / Scraper / Dozer	605
29	LAB-00029	Operator Spillway / Sluice gate	540
30	LAB-00030	Operator Crusher / Conveyor / Mucker	540
31	LAB-00031	Operator Tipper / Dumper / Transit mixer	605
32	LAB-00032	Operator Concrete vibrator	540
33	LAB-00033	Operator Vibratory plain / pad foot roller	540
34	LAB-00034	Operator Wagon drill / Drifter	605
35	LAB-00035	Painter Cl- I	615
36	LAB-00036	Plumber / Pipe fitter	615
37	LAB-00037	Sarang / Khalasi	540
38	LAB-00038	Spun pipe moulder	540
39	LAB-00039	Stone chiseller Cl- I / Stone cutter Cl- I	545
40	LAB-00040	Struct. steel Fabricator / Marker / Erector	655
41	LAB-00041	Welder / Gas Cutter	540
42	LAB-00042	Welder (X-ray quality)	605
II.		SEMI SKILLED CATEGORY:	
1	LAB-00057	Asphalt Sprayer / Boiler attendant	500
2	LAB-00058	Bhisti	500
3	LAB-00059	Boatman with boat	500
4	LAB-00060	Carpenter Cl- II / Erector shuttering	500
5	LAB-00061	Cartman with double bullock cart	550
6	LAB-00062	Cartman with single bullock cart	515
7	LAB-00063	Chavali / Navagani	500
8	LAB-00064	Crowbarman / Jumper man	500
9	LAB-00065	Fitter Cl- II	500
10	LAB-00066	Gang man / Head / Survey mazdoor	500
11	LAB-00067	Gardener / Trained mali	500
12	LAB-00068	Air compressor / DG set	500
13	LAB-00069	Helper Batching plant	500
14	LAB-00070	Helper Blasting	500

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2020-21
1	2	3	4
15	LAB-00071	Helper Bus/ Ambulance/ Lorry/ Tanker	500
16	LAB-00072	Helper Bending/Shearing/Planing machine	500
17	LAB-00073	Helper Carpenter	500
18	LAB-00074	Helper Concrete / Asphalt mixer	500
19	LAB-00075	Helper Concrete / Asphalt paver	500
20	LAB-00076	Helper Core drilling machine	500
21	LAB-00077	Helper Crane/ Tower crane/ Cable way	500
22	LAB-00078	Helper Drilling jumbo / Loco / Winch	500
23	LAB-00079	Helper Fitter / Fabrication/Electrician	500
24	LAB-00080	Helper Grouting/ Guniting/ Shotcreting	500
25	LAB-00081	Helper Jack hammer / Pneumatic tamper	500
26	LAB-00082	Helper Laboratory / Instrumentation	500
27	LAB-00083	Helper Road roller	500
28	LAB-00084	Helper Shovel / Scraper / Dozer	500
29	LAB-00085	Helper Crusher / Conveyor / Mucker	500
30	LAB-00086	Helper Tipper / Dumper/ Transit mixer	500
31	LAB-00087	Helper Vibrator	500
32	LAB-00088	Helper Vibratory plain/ pad foot roller	500
33	LAB-00089	Helper Wagon drill/ Drifter	500
34	LAB-00090	Lineman Electric / Telephone	500
35	LAB-00091	Mason Cl- II / Brick layer Cl-II	500
36	LAB-00092	Mechanic Cl- II	500
37	LAB-00093	Painter Cl- II	500
38	LAB-00094	Patkari / Neeraganti / Sowdy	500
39	LAB-00095	Stone Chiseller Cl- II	500
40	LAB-00096	Stone breaker / Hammer man	500
41	LAB-00097	Valve man / Canal sluice operator	500
III.		UN-SKILLED CATEGORY:	
1	LAB-00118	Cement / Asphalt handling mazdoor	460
2	LAB-00119	Civic worker	460
3	LAB-00120	Man mazdoor	460

Sl No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2020-21
1	2	3	4
4	LAB-00121	Woman mazdoor	460
5	LAB-00122	Watchman	460
IV.		OTHER CATEGORY:	
1	LAB-00124	Care-taker / conductor / Lift Attender	500
2	LAB-00125	Cook / Mess man	500
3	LAB-00126	Dhobi	500
4	LAB-00127	Diploma Engineer / Surveyor	850
5	LAB-00128	Diver with headgear	625
6	LAB-00129	Graduate / Laboratory Assistant	625
7	LAB-00130	Graduate Engineer/ Geologist	1100
8	LAB-00131	Horticulture Assistant / Photographer	505
9	LAB-00132	ITI certificate holder / Tracer / Printer	615
10	LAB-00133	Literate mazdoor	475
11	LAB-00134	Stenographer / Computer Operator	670
12	LAB-00135	Telephone / Wireless Operator	605
13	LAB-00136	Typist / Job Typist	605
14	LAB-00137	CAD operator with Diploma in Engineering/General degree with CAD certificate	850
15	LAB-00138	Jeep Driver	600
16	LAB-00139	Data Processing Operator	820

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 RESOURCES WORK ITEMS

**STATEMENT OF RATES FOR MATERIALS
FOR THE YEAR : 2020-21
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 are **exclusive of GST**, 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.
6. Unless otherwise specified the rate of materials are inclusive of loading charges.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
1	MAT-00001	Acetylene gas	cum	336
2	MAT-00002	Asphalt 80/100 Grade	Kg	42
3	MAT-00003	Binding wire	Kg	56
4	MAT-00004	Burnt stone slab 10 cm thick	sqm	297
5	MAT-00005	Cement 43 Gr/53 Gr Note: Rate as fixed by the Government	tonne	3,672
6	MAT-00006	Chequered plate	Kg	59
7	MAT-00007	Coarse aggregate 10-4.75 mm	cum	903
8	MAT-00008	Coarse aggregate 20-10 mm	cum	1,220
9	MAT-00009	Coarse aggregate 40-20 mm	cum	1,180
10	MAT-00010	Coarse aggregate 80-40 mm	cum	650
		The aggregate rates mentioned above (from Sl.No.7 to Sl.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	MAT-00011	Coir brush	Each	42

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
12	MAT-00012	Copper sheet 16 SWG	Kg	635
13	MAT-00013	Coursed rubble stone 30 x 30 x 45 cm	Each	25
14	MAT-00014	Coursed rubble stone 30 x 30 x 60 cm	Each	28
15	MAT-00015	Curing Compound	Ltr	114
16	MAT-00016	D – cord	Rm	6
17	MAT-00017	Delay - noiseless trunk	Each	18
18	MAT-00018	Detonating fuse coil	Rm	7
19	MAT-00019	Detonating shock tube / Cord relays	Rm	35
20	MAT-00020	Detonator delay type	Each	19
21	MAT-00021	Detonator electric	Each	9
22	MAT-00022	Detonator ordinary	Each	6
23	MAT-00023	Empty cement bag	Each	5
24	MAT-00024	Explosive ANFO	Kg	42
25	MAT-00025	Explosive ANFO high strength booster	Kg	65
26	MAT-00026	Explosive small dia (Kelvex-220 or equivalent)	Kg	65
27	MAT-00027	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items)	Cum	510
	MAT-00028	(b)Fineaggregate/Sand(un screened)for filling	Cum	375
28	MAT-00029	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items (Rs.95 is added towards screening Charges)	Cum	605
29	MAT-00030	Geo-textile (filter fabric) 160 gsm	Sqm	91
30	MAT-00031	Geo-textile (filter fabric) 200 gsm	Sqm	108
31	MAT-00032	Geo-textile (filter fabric) 250 gsm	Sqm	122
32	MAT-00033	G I Pipe 100 mm dia B Class	Rm	710
33	MAT-00034	G I Pipe 15 mm dia A class	Rm	85

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
34	MAT-00035	G I pipe 25 mm dia A class	Rm	145
35	MAT-00036	G I pipe 40 mm dia B class	Rm	222
36	MAT-00037	G I pipe 50 mm dia A class	Rm	255
37	MAT-00038	G I Pipe 80 mm dia B Class	Rm	466
38	MAT-00039	G.I Bolts / Nuts and Washers	Kg	98
39	MAT-00040	G.I sheet (plain)	tonne	58,000
40	MAT-00041	Hariyala turfing sods	Sqm	26
41	MAT-00042	Hectometer stone one line dressed	Each	280
42	MAT-00043	Hemp yarn	Kg	69
43	MAT-00044	Honne wood planks	Cum	43,500
44	MAT-00045	Hume pipe with collar 150 mm dia	Rm	262
45	MAT-00046	Hume pipe with collar 300 mm dia	Rm	540
46	MAT-00047	J- Bolts 30 cm long	Each	36
47	MAT-00048	Jungle wood planks	Cum	18,570
48	MAT-00049	Khandki stone 15 to 20 cm height	Each	12
49	MAT-00050	Khandki stone 20 to 25 cm height	Each	16
50	MAT-00051	Khandki stone 25 to 30 cm height	Each	18
51	MAT-00052	Kilometer stone one line dressed	Each	485
52	MAT-00053	LDPE sheet (Geo membrane) 500 micron thick	Sqm	82
53	MAT-00054	LDPE sheet (Geo membrane) 750 micron thick	Sqm	121
54	MAT-00055	LDPE sheet (Geo membrane) 1000 micron thick	Sqm	166
55	MAT-00056	M S Bolts / Nuts / Washers	Kg	77
56	MAT-00057	Murrum	Cum	205
57	MAT-00058	Oxalic acid	Ltr	72
58	MAT-00059	Oxygen gas	Cum	41
59	MAT-00060	PVC sealing strip	Rm	41

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
60	MAT-00061	PVC water stopper 310 mm wide	Rm	420
61	MAT-00062	PVC pipe of 100 mm dia	Rm	155
62	MAT-00063	Reinforcement steel (HYSD/TMT) Note: As per Monthly rate fixed by Sub-Committee	tonne	40,500
63	MAT-00064	Resin bond Cement capsule	Each	45
64	MAT-00065	Rough stone 20 x 20 x 75 cm	Each	24
65	MAT-00066	Shahabad stone slab	Sqm	240
66	MAT-00067	Stone chips (at dump yard/Spoil)	Cum	188
67	MAT-00068	Stone chips (at quarry)	Cum	357
68	MAT-00069	Structural steel angle / channel / beam / bars Note: As per Monthly rate fixed by Sub-Committee	Tonne	41,500
69	MAT-00070	Structural steel plate / flats Note: As per Monthly rate fixed by Sub-Committee	Tonne	43,000
70	MAT-00071	Super Plasticizer (Conplast RP-264 or equivalent)	Kg	49
71	MAT-00072	Synthetic Enamel paint 1st quality	Ltr	228
72	MAT-00073	Synthetic adhesive (Resin + Hardener)	Kg	298
73	MAT-00074	Tar felt joint filler board 12 mm thick	Sqm	343
74	MAT-00075	Tar felt joint filler board 20 mm thick	Sqm	520
75	MAT-00076	Through stones 20 x 20 x 30 to 45 cm	Each	23
76	MAT-00077	Through stones 25 x 25 x 45 to 60 cm long	Each	40
77	MAT-00078	Through stones 30 x 30 x 65 to 75 cm long	Each	60
78	MAT-00079	Un-coursed rubble stones (at dump yard /Spoil)	Cum	166
79	MAT-00080	Un-coursed rubble stones (at quarry)	Cum	325
80	MAT-00081	Water proofing compound	Kg	72
81	MAT-00082	Welding electrodes 4 mm dia	Each	13
82	MAT-00083	Wire brush	Each	39

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
83	MAT-00084	Wire mesh 20 gauge	sqm	220
84	MAT-00085	Zinc chromate red oxide primer paint	Ltr	162
85	MAT-00086	inorganic zinc silicate	Ltr	540
86	MAT-00087	solvent less coal tar epoxy paint	Ltr	261
87	MAT-00088	Zinc phosphate primer	Ltr	198
88	MAT-00089	Allkyd based iron oxide paint	Ltr	153
89	MAT-00090	a) Cost of hdpe (90mm dia)	Rm	205
	MAT-00091	b) light black MS casing pipe 100 mm dia (4mm thick)	Rm	450
90	MAT-00092	welded steel wire fabric 100X100X5 mm size	Kg	175
91	MAT-00093	Protective Mastic	Ltr	424
92	MAT-00094	Solventless coal tar epoxy (brown)	Ltr	260

**ADDITIONAL MATERIALS FOR GATES & HOISTS
FOR THE YEAR: 2020-21**

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 of prevailing market rates.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
1	MAT-00108	Alloy steel (IS : 1570-carbon steel) shafts	Kg	225
2	MAT-00109	Alloy steel (IS : 1570-stainless steel) pins	Kg	415
3	MAT-00110	Bolt / Nut / Washer (hot dipped galvanized)	Kg	135
4	MAT-00111	Bolt / Nut / Washer (stainless steel)	Kg	350
5	MAT-00112	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	905
6	MAT-00113	Cast iron blocks	Kg	81
7	MAT-00114	Cast steel drums / gears	Kg	219
8	MAT-00115	Cast steel pinions	Kg	214
9	MAT-00116	Cast steel wheels / pulleys / hubs / rollers / Retainers	Kg	182
10	MAT-00117	Chemical for de-greasing/ de-rusting/phosphate Coating	Ltr	124
11	MAT-00118	Coal tar epoxy paint	Ltr	185
12	MAT-00119	Forged steel hooks / shackles	Kg	259
13	MAT-00120	MS pipe 200 / 300 mm dia	Kg	166
14	MAT-00121	MS pipe 32 mm dia	Rm	177
15	MAT-00122	MS pipe 25 mm dia	Rm	144
16	MAT-00123	Rubber bottom seal (IS : 11855) (100mmX14 mm)	Rm	644
17	MAT-00124	Rubber side seal (music note type Teflon claded) (IS : 11855) (36ØX113mmX14mm)	Rm	1,375
18	MAT-00125	Rubber side seal (music note type uncladed) (IS : 11855) (36ØX113mmX14mm)	Rm	995

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2020-21
1	2	3	4	5
19	MAT-00126	Rubber side seal Z-type (IS : 11855) (36ØX120mmX19mm)	Rm	1,300
20	MAT-00127	Rubber corner seal (Teflon claded) (IS : 11855) (36Ø)	Each	1,365
21	MAT-00128	Rubber corner seal (un claded) (IS : 11855) (36Ø)	Each	965
22	MAT-00129	Stainless steel plates / flats	Kg	275
23	MAT-00130	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	16
24	MAT-00131	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	22
25	MAT-00132	Wire rope 6x37 constn (IS : 2266)	Kg	187
26	MAT-00133	Zinc	Kg	181
27	MAT-00134	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	588

**MATERIALS FOR POWER SUPPLY WORKS
FOR THE YEAR : 2020-21**

Sl No.	Description of Material	Unit	S. Rate for 2020-21
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: 2020-21**
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 exclusive of GST, duties and 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:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2020-21
1	2	3	4	5
1	MAT-00600	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	18,76,500
	MAT-00601	tyres and tubes 6 sets		72,300
2	MAT-00602	Air compressor 5 cmm electric	Each	5,96,000
3	MAT-00603	Air compressor 7 cmm diesel	Each	7,96,800
4	MAT-00604	Air compressor 7 cmm electric	Each	7,52,500
5	MAT-00605	Air compressor 8.5 cmm diesel	Each	9,10,800
6	MAT-00606	Air compressor 8.5 cmm electric	Each	9,40,300
7	MAT-00607	Air compressor 15 cmm electric	Each	11,50,200
8	MAT-00608	Angle Dozer 90 hp	Each	47,78,590
9	MAT-00609	Batching plant 0.5 cum with accessories (6 Cum/hr)	Each	10,47,360
10	MAT-00610	Batching plant 2 x 1.00 cum with accessories (15 Cum/hr)	Each	37,05,046
11	MAT-00611	Batching plant 2 x 1.50 cum with accessories (50 Cum/hr)	Each	56,73,219
12	MAT-00612	Bending machine	Each	4,82,000
13	MAT-00613	Clam shell and hoisting ropes	Each	27,750
14	MAT-00614	Concrete bucket 1.5 cum	Each	48,500
15	MAT-00615	Concrete hand mixer 45/30 ltr	Each	13,785
16	MAT-00616	Concrete mixer 300/200 ltr(diesel)	Each	1,29,500
17	MAT-00617	Concrete mixer 300/200 ltr (electric)	Each	1,26,555
18	MAT-00618	Concrete mixer 600/400 ltr(diesel)	Each	2,20,500
19	MAT-00619	Concrete mixer 600/400 ltr (electric)	Each	2,16,000

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2020-21
1	2	3	4	5
20	MAT-00620	Concrete paver 100 Sqm / hr	Each	20,58,050
21	MAT-00621	Convey mucker (excluding tyres)	Each	33,59,330
	MAT-00601	tyres and tubes 6 sets		72,300
22	MAT-00622	Core drilling machine	Each	9,60,078
23	MAT-00623	Diesel generating set 30 KVA	Each	4,32,032
24	MAT-00624	Diesel generating set 50 KVA	Each	5,39,800
25	MAT-00625	Diesel Loco 45 hp	Each	18,50,339
26	MAT-00626	Dewatering pump 5 hp diesel	Each	34,800
27	MAT-00627	Dewatering pump 5 hp electric	Each	21,558
28	MAT-00628	Dewatering pump 10 hp diesel	Each	52,550
29	MAT-00629	Dewatering pump 10 hp electric	Each	48,100
30	MAT-00630	Dewatering pump 20 hp diesel	Each	1,65,988
31	MAT-00631	Dewatering pump 20 hp electric	Each	88,990
32	MAT-00632	Drifter	Each	9,25,450
33	MAT-00633	Drilling jumbo (excluding tyres)	Each	11,68,859
	MAT-08524	tyres and tubes 6 sets		75,000
34	MAT-00634	Dumper 4.5 cum (excluding tyres)	Each	12,90,200
	MAT-00601	tyres and tubes 6 sets		72,300
35	MAT-00635	Geophysical Ele.resistivity meter	Each	4,48,600
36	MAT-00636	Grouting pump	Each	85,890
37	MAT-00637	Guniting / sand blasting equipment	Each	2,67,500
38	MAT-00638	Ice plant with accessories 30 t / day	Each	22,38,742
39	MAT-00639	Jack hammer	Each	56,500
40	MAT-00640	Needle vibrator 40 mm petrol	Each	17,500
41	MAT-00641	Needle vibrator 40 mm electric	Each	18,350
42	MAT-00642	Needle vibrator 60 mm petrol	Each	18,200
43	MAT-00643	Needle vibrator 60 mm electric	Each	22,450
44	MAT-00644	Planing machine 4 m stroke	Each	7,42,378
45	MAT-00645	Plate shearing machine up to 12 mm	Each	4,04,504
46	MAT-00646	Pneumatic placer 0.5 cum	Each	5,06,230
47	MAT-00647	Pneumatic tamper	Each	74,500

Sl No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2020-21
1	2	3	4	5
48	MAT-00648	Pug cutting machine	Each	15,669
49	MAT-00649	Pusher leg	Each	48,300
50	MAT-00650	Road roller diesel 10 t	Each	7,63,082
51	MAT-00651	Shovel 0.50 cum 75 hp	Each	33,65,000
52	MAT-00652	Shovel 0.85 cum 110 hp	Each	56,21,517
53	MAT-00653	Stationery derrick crane 5 t	Each	5,69,939
54	MAT-00654	Tipper 5 cum (excluding tyres)	Each	14,58,340
	MAT-00601	tyres and tubes 6 sets		72,300
55	MAT-00655	Tipping tub 1.5 cum	Each	2,11,467
56	MAT-00656	Tower crane 5 tonne	Each	65,24,196
57	MAT-00657	Transformer 250 KVA	Each	4,33,500
58	MAT-00658	Truck 10 t (excluding tyres)	Each	12,87,385
	MAT-00601	tyres and tubes 6 sets		72,300
59	MAT-00659	Truck mounted derrick crane 5 t (excluding tyres)	Each	17,59,572
	MAT-00601	tyres and tubes 6 sets		72,300
60	MAT-00660	Upright drilling machine	Each	49,560
61	MAT-00661	Ventilation fan 20 hp	Each	2,56,887
62	MAT-00662	Vibratory pad foot roller 8 t	Each	26,48,335
63	MAT-00663	Wagon drill	Each	5,78,127
64	MAT-00664	Water tanker 8000 ltr (excluding tyres)	Each	13,33,000
	MAT-00601	tyres and tubes 6 sets		72,300
65	MAT-00665	Welding set	Each	44,500
66	MAT-00666	Winch 35 hp electric	Each	3,52,245
67	MAT-00667	Hydraulic Truck Crane 30T	Each	135,46,500
	MAT-08525	tyres and tubes 6 sets		1,61,650
68	MAT-00668	Hydraulic Truck Crane 16T	Each	92,54,650
	MAT-08526	tyres and tubes 6 sets		1,55,000
69	MAT-00669	Heavy Duty Airless Spray Painting Equipment	Each	4,27,950
70	MAT-00670	Concrete Placer Pump(25 Cum/hr)(Electric)	Each	28,29,905

ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR: 2020-21

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2020-21
1	2	3	4	5
1	MAT-00671	Casing shoe bit	Each	10,680
2	MAT-00672	Diamond core bit BX size	Each	10,895
3	MAT-00673	Diamond core bit NX size	Each	13,080
4	MAT-00674	Double tube core barrel	Each	13,945
5	MAT-00675	Extension drill rod with coupling sleeve	Rm	1,980
6	MAT-00676	Jack hammer drill rod 1.5 m	Each	3,902
7	MAT-00677	Jack hammer drill rod 2.5 m	Each	5,840
8	MAT-00678	Nozzle for Guniting / sand blasting gun	Each	650
9	MAT-00679	Paving Cylinder	Each	28,590
10	MAT-00680	Rails 30R (30 kg / m)	tonne	52,945
11	MAT-00681	Reamer shell	Each	5,240
12	MAT-00682	T.C. Cross bit 50 mm dia	Each	5,140
13	MAT-00683	T.C. Cross bit 75 mm dia	Each	10,280
14	MAT-00684	T.C. Cross bit 100 mm dia	Each	12,100
15	MAT-00685	Tyres and Tubes for truck	Set	14,750
16	MAT-00686	Wire rope 16 mm dia	Rm	281
17	MAT-00687	Excavation of drain with Excavator	Cum	39

AGGREGATE CRUSHING & PROCESSING PLANT

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2020-21
1	2	3	4	5
1		Jaw crusher 900 x 500 mm (120 tph) with 50 hp Motor	Each	These items are not 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 : 2020-21**

- 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.
- The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
- Demand charges and electric power charges shall be as per prevailing APEPDCL tariff.
- Rate of interest on capital cost shall be as approved by Govt or other competent authority.

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2020-21
1	2	3	4	5
1	MAT-00688	Air hose 25 mm dia	Rm	169
2	MAT-00689	Air hose 50 mm dia	Rm	254
3	MAT-00690	Demand charges (HT-I : General-11 KV category) on power supply(as per APEPDCL tariff)	KVA / month	475
4	MAT-00691	Diesel	Ltr	79.73
5	MAT-00692	Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A):General-11 KVA Category) (as per APEPDCL tariff)	Kwhr	9.5
6	MAT-00693	Excise duty on Gates / Hoist supplies	%	0

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2020-21
1	2	3	4	5
7	MAT-00694	Insurance charges on machinery	% / annum	1
8	MAT-00695	Interest on capital cost	% / annum	9
9	MAT-00696	Lubricants	Ltr	238
10	MAT-00697	Petrol	Ltr	79.47
11	MAT-00698	Rivets	Kg	89
12	MAT-00699	Road tax on transport vehicles	Rs./annum	As per RTA
13	MAT-00700	Shalimatic sealing compound	Kg	89
14	MAT-00701	Shutter oil	Ltr	48
15	MAT-00702	Structural steel fabrication	Kg	29
16	MAT-00703	Sundries (Lump sum for un quantified inputs)	LS	32
17	MAT-00704	Water hose (pressure) 20 mm dia	Rm	169
18	MAT-00705	Steel wedges	LS	16
19	MAT-00706	Elbows / Nipple / Plugs etc.,	LS	16
20	MAT-00707	Soldering materials	LS	16
21	MAT-00708	Steam circulation arrangement	LS	16
22	MAT-00709	Fuel charges (gas for heating)	LS	18
23	MAT-00710	Vulcanizing materials	LS	18
24	MAT-08527	Other accessories / controls / junctions	LS	20
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	MAT-00711	Gas cutting set (2 No's 15 m hose and nozzle unit)	Each	13,180
29	MAT-00712	Grease	Kg	250
30	MAT-00713	Welding holder set (cable / holder / gloves / mask etc)	Each	7,435
31	MAT-00385	Use rate of ropes	LS	160

MATERIALS FOR GATES AND HOISTS FOR THE YEAR : 2020-21

Sl No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2020-21
1	2	3	4	5
1	MAT-00095	Worm reducers	Each	1,78,900
2	MAT-00096	Electric motor 20 hp(Double Shaft)	Each	1,03,690
3	MAT-00097	Electric motor 17.5 hp(Double Shaft)	Each	68,500
4	MAT-00098	Electric motor 12.5 hp(Double Shaft)	Each	57,800
5	MAT-00099	Electric motor 5 hp(Double Shaft)	Each	26,500
6	MAT-00100	Electric motor 3 hp (Double Shaft)	Each	18,500
7	MAT-00101	Electric motor 2 hp (Double Shaft)	Each	10,300
8	MAT-00102	Floating shaft 300 mm dia	Kg	165
9	MAT-00103	Manual operating system	Each	27,100
10	MAT-00104	Gate position indicator	Each	1,74,851
11	MAT-00105	Ele-magnetic brake	Each	28,200
12	MAT-00106	Electric cable / switch / control panel etc	LS	46,500
13	MAT-00107	Wire rope sockets	Each	4,500

**Materials other than covered under WR work items
for the year 2020-21**

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 **exclusive of** GST, 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.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-002	MAT-00175	Quarried stone 150 - 200 mm size for Hand Broken	Cum	150
M-003	MAT-00176	Boulder with minimum size of 300 mm for Pitching	Cum	165
M-004		Coarse sand for filling	Cum	Rate as per item no.27(b) of material of WRD
M-005		Coarse sand for mortar	Cum	Rate as per item no.27(a) of material of WRD
M-006		Fine Sand	Cum	Rate as per item no.28 of material of WRD
M-007		Murrum	Cum	Rate as per item no.56 of Material of WRD.
M-008	MAT-00177	Gravel/Quarry spall	Cum	130
M-009		Granular Material or hard Murrum for GSB works	Cum	Deleted
M-010	MAT-00178	Granular Material or hard Murrum for GSB works	Cum	95
M-011	MAT-00179	Fly ash conforming to IS: 3812 (Part II & I)	Cum	70
		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)		

Part I - Materials not covered under WR Work items basic data – Common SoR 2020-21

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-012	MAT-00180	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)	Cum	342
M-013	MAT-00181	Close graded Granular sub-base Material 53 mm to 9.5 mm	Cum	665
M-014	MAT-00182	Close graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	685
M-015	MAT-00183	Close graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	725
M-016	MAT-00184	Close graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	600
M-017	MAT-00185	Close graded Granular sub-base Material 9.5 mm to 2.36 mm	Cum	590
M-018	MAT-00186	Close graded Granular sub-base Material 4.75mm to 2.36 mm	Cum	520
M-019	MAT-00187	Close graded Granular sub-base Material 4.75mm to 75 micron mm.	Cum	495
M-020	MAT-00188	Close graded Granular sub-base Material 2.36 mm	Cum	495
M-021	MAT-00189	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.	Cum	357
M-022	MAT-00191	Coarse graded Granular sub-base Material 2.36 mm & below	Cum	510
M-023	MAT-00192	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cum	480
M-024	MAT-00193	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cum	480
M-025	MAT-00194	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	585
M-026	MAT-00195	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm	Cum	640
M-027	MAT-00196	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	641
M-028	MAT-00197	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	710
M-029	MAT-00198	Coarse graded Granular sub-base Material 53 mm to 26.5mm	Cum	880
M-030	MAT-00199	Aggregates below 5.6 mm	Cum	575
M-031	MAT-00200	Aggregates 22.4 mm to 2.36 mm	Cum	945

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-032	MAT-00201	Aggregates 22.4 mm to 5.6 mm	Cum	1,075
M-033	MAT-00202	Aggregates 45 mm to 2.8 mm	Cum	685
M-034		Aggregates 45 mm to 22.4 mm	Cum	Rate as per item no.9 of Material rates of WRD.
M-035	MAT-00203	Aggregates 53 mm to 2.8 mm	Cum	945
M-036	MAT-00204	Aggregates 53 mm to 22.4 mm	Cum	895
M-037	MAT-00205	Aggregates 63 mm to 2.8 mm	Cum	735
M-038	MAT-00206	Aggregates 63 mm to 45 mm	Cum	680
M-039		Aggregates 90 mm to 45 mm	Cum	Rate as per item no.10 of Material rates of WRD.
M-040		Aggregates 10 mm to 5 mm	Cum	Rate as per item no.7 of Material rates of WRD.
M-041	MAT-00207	Aggregates 11.2 mm to 0.09 mm	Cum	735
M-042	MAT-00208	Aggregates 13.2 mm to 0.09 mm	Cum	830
M-043	MAT-00209	Aggregates 13.2 mm to 5.6 mm	Cum	960
M-044	MAT-00210	Aggregates 13.2 mm to 10 mm	Cum	1,070
M-045		Aggregates 20 mm to 10 mm	Cum	Rate as per item no.8 of Material rates of WRD.
M-046	MAT-00211	Aggregates 25 mm to 10 mm	Cum	1,175
M-047	MAT-00212	Aggregates 19 mm to 6 mm	Cum	1,080
M-048	MAT-00213	Aggregates 37.5 mm to 19 mm	Cum	1,150
M-049	MAT-00214	Aggregates 37.5 mm to 25 mm	Cum	1,190
M-050	MAT-00215	Aggregates 6 mm nominal size	Cum	780
M-051	MAT-00216	Aggregates 10 mm nominal size	Cum	965
M-052	MAT-00217	Aggregates 13.2/12.5 mm nominal size	Cum	1,130

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-053	MAT-00218	Aggregates 20 mm nominal size	Cum	1,400
M-054	MAT-00219	Aggregates 25 mm nominal size	Cum	1,350
M-055	MAT-00220	Aggregates 40 mm nominal size	Cum	870
M-056		AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	MAT-00221	Acrylic polymer bonding coat	Litre	485
M-058	MAT-00222	Aluminum Paint	Litre	280
M-059	MAT-00223	Aluminum alloy plate 2mm Thick	Sqm	350
M-060	MAT-00224	Aluminum alloy/Galvanized steel	Tonne	61,860
M-061	MAT-00225	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	840
M-062	MAT-00226	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market rate
M-063	MAT-00227	Barbed wire	Kg	73
M-064	MAT-00228	Bearing (Cost of parts)	No's	505
M-065	MAT-00229	Bearing (Cast steel rocker bearing assembly of 250 tonne)	No's	705
M-066	MAT-00230	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	MAT-00231	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	MAT-00232	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	MAT-00233	Bearing (PTFE sliding plate bearing assembly of 80 tonnes)	No's	
M-070	MAT-00234	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	MAT-00235	Bentonite	Kg	7.0

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-072		Binding wire	Kg	Rate as per item no.3 of Material rates of WRD.
M-073	MAT-00236	Bitumen (Cationic Emulsion)	Tonne	As per rates fixed by R&B Dept based on refinery rates
M-074	MAT-00237	Bitumen (60-70 grade)	Tonne	
M-075	MAT-00238	Bitumen (80-100 grade)	Tonne	
M-076	MAT-00239	Bitumen (Cutback)	Tonne	
M-077	MAT-00240	Bitumen (emulsion)	Tonne	
M-078	MAT-00241	Bitumen (modified graded)	Tonne	
M-079		Brick	Each	As per Building SSR
M-080	MAT-00242	C.I. shoes for the pile	Kg	55
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	MAT-00243	Collar for joints 300 mm dia	No's	140
M-084	MAT-00244	Compressible Fibre Board(20mm thick)	Sqm	505
M-085	MAT-00245	Connectors/ Staples	Each	70
M-086	MAT-00246	Copper Plate(12m long x 250mmwide)	Kg	270
M-087	MAT-00247	Corrosion resistant Structural steel	Tonne	Monthly Rate fixed by Sub-Committee
M-088	MAT-00248	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	190
M-089	MAT-00249	Credit for excavated rock found suitable for use	Cum	210
M-090	MAT-00250	Curing compound	Liter	Rate as per item no.15 of Material rates of WRD.
M-091	MAT-00251	Delineators from ISI certified firm as per the standard drawing given in IRC – 79	Each	Rate as per local competitive quotations

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-092	MAT-00252	Earth Cost or compensation for selected earth for shoulders taken from Private Land	Cum	101
M-093	MAT-00253	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	Rate 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	MAT-00254	Epoxy compound with accessories for preparing epoxy mortar	Kg	295
M-096	MAT-00255	Epoxy mortar	Kg	98
M-097	MAT-00256	Epoxy primer	Kg	510
M-098	MAT-00257	Epoxy resin-hardener mix for prime coat	Kg	525
M-099	MAT-00258	Flag of red color cloth 600 x 600 mm	Each	26
M-100	MAT-00259	Flowering Plants	Each	43
M-101	MAT-00260	Galvanized MS flat clamp	No's	175
M-102	MAT-00261	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	165
M-103	MAT-00263	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	845
M-104	MAT-00264	Gelatin 80%	Kg	60
M-105	MAT-00265	Geo grids	Sqm	Rate 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

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-107	MAT-00266	Geo nets	Sqm	Rate 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	MAT-00267	Geo textile filter fabric	Sqm	Rate as per local competitive quotations
M-110	MAT-00268	GI bolt 10 mm Dia	No's	20
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	MAT-00269	Grass (Doob)	Kg	6
M-113	MAT-00270	Grass (Fine)	Kg	8.5
M-114		HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115		HDPE pipes 90mm dia	Metre	
M-116	MAT-00271	Hedge plants	Each	Rate as per local competitive quotations
M-117	MAT-00272	Helical pipes 600mm diameter	Metre	
M-118	MAT-00273	Hot applied thermoplastic compound	Litre	
M-119	MAT-00274	HTS strand	Tonne	38,500
M-120	MAT-00275	Joint Sealant Compound	Kg	62
M-121	MAT-00276	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	82

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-122	MAT-00277	LDO for steam curing	Litre	62
M-123		M.S. Clamps	Kg	Deleted
M-124	MAT-00278	M.S. Clamps	Kg	Rate as per local competitive quotations
M-125	MAT-00279	M.S. shoes @ 35 Kg per pile of 15 m	Kg	
M-126	MAT-00280	Mild Steel bars	Tonne	40,470
M-127	MAT-00281	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-128	MAT-00282	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	MAT-00283	Nipples 12mm	No's	19
M-130	MAT-00284	Nuts and bolts	Kg	91
M-131	MAT-00285	Paint	Litre	210
M-132	MAT-00286	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	MAT-00287	Paving Fabric	Sqm	
M-134	MAT-00288	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	MAT-00290	Perforated pipe of cement concrete, internal dia 100 mm	Metre	
M-136	MAT-00291	Pesticide	Kg	
M-137		R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-138	MAT-00292	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	50
M-139	MAT-00293	Plastic tubes 50 cm dia , 1.2 m high	No's	Rate as per local competitive quotations
M-140	MAT-00294	Polymer braids	Metre	
M-141	MAT-00295	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	280
M-142	MAT-00296	Pre-coated stone chips of 13.2 mm nominal size	Cum	Rate as per local competitive quotations
M-143	MAT-00297	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	
M-144	MAT-00298	Pre-moulded asphalt filler board	Sqm	
M-145	MAT-00299	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	
M-146	MAT-00300	Sealant Primer	Kg	
M-147	MAT-00301	Quick setting compound	Kg	29
M-148	MAT-00302	Random Rubble Stone	Cum	255
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	MAT-00303	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	MAT-00304	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	MAT-00305	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	MAT-00306	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	
M-156	MAT-00307	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	
M-157	MAT-00308	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre	

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-158	MAT-00309	Rivets	Each	6
M-159		Sand bags (Cost of sand and Empty cement bag)	Per bag	Rate as per Item no.2 of miscellaneous items
M-160	MAT-00310	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	MAT-00311	Scrap tyres of size 900 x 20	No's	72
M-162	MAT-00312	Seeds(Grass)	Kg	19
M-163		Cost of Selected earth	Cum	Deleted
M-164	MAT-00313	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations
M-165	MAT-00314	Sheathing duct	Metre	
M-166	MAT-00315	Shrubs	Each	16
M-167	MAT-00316	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	MAT-00317	Square Rubble Coursed Stone	Cum	2,260
M-170	MAT-00318	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	MAT-00319	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	MAT-00320	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate
M-173	MAT-00321	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	MAT-00322	Steel pipe 25 mm external dia as per IS:1239	Metre	260
M-175	MAT-00323	Steel pipe 50 mm external dia as per IS:1239	Metre	510
M-176	MAT-00324	Steel wire rope 20 mm	Kg	180
M-177	MAT-00325	Steel wire rope 40 mm	Kg	195

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-178	MAT-00326	Strip seal expansion joint	Metre	Rate as per local competitive quotations
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	MAT-00327	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	MAT-00328	Tie rods 20mm diameter	No's	50
M-184		Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185		Timber	Cum	
M-186	MAT-00329	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations
M-187	MAT-00330	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	
M-188	MAT-00331	Un slaked lime	Tonne	2,675
M-189(a)	MAT-00332	Water charges(Urban)	KiloLitre	110
(b)	MAT-00333	Water charges(Rural)	KiloLitre	83
M-190		Water based cement paint	Litre	As per Building SSR
M-191	MAT-00334	Welded steel wire fabric	Kg	140
M-192	MAT-00335	Wire mesh 50mm x 50mm size of 3mm wire	Kg	230

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2020-21
1	2	3	4	5
M-193		Wooden ballies 2" Dia for bracing	Each	As per Building SSR
M-194		Wooden ballies 8" Dia and 9 m long	Each	As per Building SSR
M-195	MAT-00336	Wooden packing	Cum	1,130
M-196	MAT-00337	Wooden staff for fastening of flag 25 mm dia, one m long	Each	72
Item 8.3	MAT-00338	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	1.75
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	MAT-00339	Benching old embankment slopes 0.45 X 0.45 M	RM	4.5
2	MAT-00340	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. (sand rate for filling is considered) Note: During the emergency conditions such as floods and other natural calamities, the above rate is allowed to enhance by 25% for 1st warning level and above, keeping in view of the difficulty in availability of labour and vehicles.	per bag	28
3	MAT-00341	Rough stone for revetment 225mm thick	Cum	150
4	MAT-00342	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	2
5	MAT-00343	Thinner	Ltr	85
6	MAT-00344	Gear Oil	Ltr	245
7	MAT-00345	Cardium compound	kg	100

Conveyance Charges of Material

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2020-21 (COMMON TO ALL DEPARTMENTS).

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS
FOR THE YEAR: 2020-21**

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 exclusive of contractor's profit and overhead charges of 13.615%
13. The loading and unloading charges are also exclusive of Contractor's profit and overhead charges of 13.615%
14. During the BoCEs meeting held on 10.06.2015, the BoCEs has recommended to withdraw lead charges, loading and unloading charges for Cement as per the minutes of meeting of Sub-Committee held on 29.06.2015. (The conveyance charges, loading & unloading charges for cement are displayed for information purpose only).

**A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS
BY HEAD LOAD FOR THE YEAR: 2020-21**

Sl No.	Total distance (Total lead includes initial lead)	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate	Cement / Reinforcement 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	65.70	38.30	83.60
3	Total lead up to 150 m	131.40	76.70	167.30

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.
2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

**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: 2020-21
(No loading and unloading charges allowed for machinery loading and unloading)**

Sl No.	Distance	(Lead) charges for tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter	(Lead) charges for trucks for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/ tonne	(Lead) charges for trucks per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for 1000 litres	(Lead) charges for trucks per 1000 nos. of bricks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	30.40	29.40	18.30	43.20	18.50	48.90
2	Lead up to 2 km	42.60	41.10	25.70	60.40	25.90	68.50
3	Lead up to 3 km	56.80	54.80	34.20	80.60	34.60	91.30
4	Lead up to 4 km	69.00	66.50	41.60	97.80	42.00	110.90
5	Lead up to 5 km	81.10	78.30	48.90	115.10	49.40	130.40
6	for Every km beyond 5 km up to 30 km	12.20	11.70	7.30	17.30	7.40	19.60
7	for Every km beyond	10.10	9.80	6.10	14.40	6.20	16.30

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	21.80	43.60	72.00	86.30	60.00
2	Unloading	10.90	21.80	72.00	86.30	60.00

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	110.80	132.60	169.80	184.10	221.40
2	Unloading	40.40	66.30	169.80	184.10	221.40

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	48.80	97.20
2	Unloading	15.40	15.40

F. LIFT CHARGES FOR MATERIALS BY HEADLOAD

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 / Reinforcement 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	7.70	5.50	10.20

HIRE CHARGES

**HIRE CHARGES OF PLANT &
MACHINERY FOR THE YEAR : 2020-21**

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
1	Agitator car / Transit mixer 2 cum	Hour	HIR-00001	635.00	LAB-00317	1205.90	HIR-00135	344.80	2185.70
2	Air compressor 5 cmm (electric)	Hour	HIR-00002	86.80	LAB-00318	287.00	HIR-00136	202.80	576.60
3	Air compressor 7 cmm (diesel)	Hour	HIR-00003	195.20	LAB-00319	986.70	HIR-00137	259.60	1441.50
4	Air compressor 7 cmm (electric)	Hour	HIR-00004	109.60	LAB-00320	382.70	HIR-00138	202.80	695.10
5	Air compressor 8.5 cmm (diesel)	Hour	HIR-00005	223.10	LAB-00321	1233.30	HIR-00139	259.60	1716.00
6	Air compressor 8.5 cmm (Electric)	Hour	HIR-00006	136.90	LAB-00322	478.40	HIR-00140	202.80	818.10
7	Air compressor 15 cmm (electric)	Hour	HIR-00007	108.50	LAB-00323	1063.10	HIR-00141	216.30	1387.90
8	Angle Dozer 90 hp	Hour	HIR-00008	1453.50	LAB-00324	843.60	HIR-00142	287.30	2584.40
9	Batching plant 0.5cum(6 cum/hr)	Hour	HIR-00009	93.40	LAB-00325	127.60	HIR-00143	415.50	636.50
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	HIR-00010	330.40	LAB-00326	382.70	HIR-00144	415.50	1128.60
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	HIR-00011	505.90	LAB-00327	467.70	HIR-00145	415.50	1389.10
12	Bending machine 3000 x 12 mm	Hour	HIR-00012	36.20	LAB-00328	127.60	HIR-00146	162.20	326.00
13	Clam shell and hoisting ropes	Hour	HIR-00013	5.00		0.00	HIR-00147	0.00	5.00
14	Concrete bucket 1.5 cum	Hour	HIR-00014	13.30		0.00	HIR-00148	0.00	13.30
15	Concrete hand mixer 45 / 30 ltr	Hour	HIR-00015	4.80		0.00	HIR-00149	0.00	4.80
16	Concrete mixer 300 / 200 (diesel)	Hour	HIR-00016	44.90	LAB-00329	109.60	HIR-00150	270.40	424.90
17	Concrete mixer 300 / 200 ltr (electric)	Hour	HIR-00017	43.90	LAB-00330	42.50	HIR-00151	270.40	356.80
18	Concrete mixer 600 / 400 (diesel) / 0.28 cum	Hour	HIR-00018	76.40	LAB-00331	219.30	HIR-00152	270.40	566.10
19	Concrete mixer 600 / 400 ltr (electric)	Hour	HIR-00019	74.90	LAB-00332	85.00	HIR-00153	270.40	430.30
20	Concrete paver 100 sqm / hr	Hour	HIR-00020	293.30	LAB-00333	0.00	HIR-00154	519.20	812.50

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
21	Convey mucker	Hour	HIR-00021	686.30	LAB-00334	296.00	HIR-00155	216.30	1198.60
22	Core drilling machine / Drilling equipment	Hour	HIR-00022	267.60	LAB-00335	328.90	HIR-00156	344.80	941.30
23	Diesel generating set 30 KVA	Hour	HIR-00023	55.10	LAB-00336	877.00	HIR-00157	162.20	1094.30
24	Diesel generating set 50 KVA	Hour	HIR-00024	68.80	LAB-00337	1315.50	HIR-00158	162.20	1546.50
25	Diesel Loco 45 hp	Hour	HIR-00025	320.30	LAB-00338	740.00	HIR-00159	202.80	1263.10
26	Dewatering pump 5 hp (diesel)	Hour	HIR-00026	8.50	LAB-00339	109.60	HIR-00160	134.80	252.90
27	Dewatering pump 5 hp (electric)	Hour	HIR-00027	2.50	LAB-00340	42.50	HIR-00161	101.10	146.10
28	Dewatering pump 10 hp (diesel)	Hour	HIR-00028	12.90	LAB-00341	219.30	HIR-00162	134.80	367.00
29	Dewatering pump 10 hp (electric)	Hour	HIR-00029	5.60	LAB-00342	85.00	HIR-00163	101.10	191.70
30	Dewatering pump 20 hp (diesel)	Hour	HIR-00030	40.70	LAB-00343	438.50	HIR-00164	134.80	614.00
31	Dewatering pump 20 hp (electric)	Hour	HIR-00031	10.30	LAB-00344	170.10	HIR-00165	101.10	281.50
32	Drifter	Hour	HIR-00032	269.50	LAB-00345	0.00	HIR-00166	431.00	700.50
33	Drilling jumbo	Hour	HIR-00033	318.30	LAB-00346	59.20	HIR-00167	216.30	593.80
34	Dumper 4.5 cum	Hour	HIR-00034	499.30	LAB-00347	552.50	HIR-00168	275.80	1327.60
35	Geophysical Electric resistivity meter	Hour	HIR-00035	90.80		0.00	HIR-00169	0.00	90.80
36	Grouting pump	Hour	HIR-00036	20.00	LAB-00348	42.50	HIR-00170	324.50	387.00
37	Guniting / sand blast equipment	Hour	HIR-00037	102.50	LAB-00349	0.00	HIR-00171	270.40	372.90
38	Ice plant & accessories 30 t / day	Hour	HIR-00038	155.30	LAB-00350	1211.90	HIR-00172	162.20	1529.40
39	Jack hammer	Hour	HIR-00039	16.50	LAB-00351	0.00	HIR-00173	405.60	422.10
40	Needle vibrator 40 mm (petrol)	Hour	HIR-00040	6.50	LAB-00352	21.90	HIR-00174	194.60	223.00
41	Needle vibrator 40 mm (electric)	Hour	HIR-00041	6.90	LAB-00353	8.50	HIR-00175	194.60	210.00
42	Needle vibrator 60 mm (petrol)	Hour	HIR-00042	6.80	LAB-00354	32.80	HIR-00176	194.60	234.20
43	Needle vibrator 60 mm (electric)	Hour	HIR-00043	8.40	LAB-00355	12.80	HIR-00177	194.60	215.80

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
44	Planing machine 4 m stroke	Hour	HIR-00044	105.80	LAB-00356	127.60	HIR-00178	259.60	493.00
45	Plate shearing machine upto 12 mm	Hour	HIR-00045	37.80	LAB-00357	170.10	HIR-00179	172.40	380.30
46	Pneumatic placer 0.5 cum	Hour	HIR-00046	145.50	LAB-00358	0.00	HIR-00180	105.30	250.80
47	Pneumatic tamper	Hour	HIR-00047	17.40	LAB-00359	0.00	HIR-00181	324.50	341.90
48	Pug cutting machine	Hour	HIR-00048	6.10		0.00	HIR-00182	4.30	10.40
49	Pusher leg	Hour	HIR-00049	11.30		0.00	HIR-00183	0.00	11.30
50	Road roller diesel 10 t	Hour	HIR-00050	170.20	LAB-00360	986.70	HIR-00184	264.60	1421.50
51	Shovel 0.50 cum 75 hp	Hour	HIR-00051	869.30	LAB-00361	657.80	HIR-00185	287.30	1814.40
52	Shovel 0.85 cum 110 hp / Hydraulic Excavator	Hour	HIR-00052	1452.20	LAB-00362	1205.90	HIR-00186	287.30	2945.40
53	Stationery derrick crane	Hour	HIR-00053	71.20		0.00	HIR-00187	0.00	71.20
54	Tipper 5 / 5.5 cum	Hour	HIR-00054	384.40	LAB-00363	414.40	HIR-00188	215.50	1014.30
55	Tipping tub 1.5 cum	Hour	HIR-00055	55.00		0.00	HIR-00189	0.00	55.00
56	Tower crane 5 tonne	Hour	HIR-00056	711.10	LAB-00364	221.10	HIR-00190	229.80	1162.00
57	Transformer 250 KVA	Hour	HIR-00057	4756.50		0.00	HIR-00191	0.00	4756.50
58	Truck 10 t / Truck 5.5 cum per 10 tonnes	Hour	HIR-00058	348.40	LAB-00365	414.40	HIR-00192	215.50	978.30
59	Truck mounted derrick crane 5 t	Hour	HIR-00059	448.00	LAB-00366	414.40	HIR-00193	215.50	1077.90
60	Upright drilling machine/Grinder	Hour	HIR-00060	19.20	LAB-00367	42.50	HIR-00194	236.00	297.70
61	Ventilation fan 20 hp	Hour	HIR-00061	10.80	LAB-00368	170.10	HIR-00195	34.90	215.80
62	Vibratory pad foot roller 8 t	Hour	HIR-00062	1175.20	LAB-00369	1425.20	HIR-00196	324.50	2924.90
63	Wagon drill	Hour	HIR-00063	161.20	LAB-00370	0.00	HIR-00197	344.80	506.00
64	Water tanker 8000 ltr	Hour	HIR-00064	358.00	LAB-00371	414.40	HIR-00198	215.50	987.90
65	Welding set	Hour	HIR-00065	14.20		0.00	HIR-00199	102.10	116.30

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
66	Winch 35 hp (electric)	Hour	HIR-00066	117.60	LAB-00372	208.40	HIR-00200	324.50	650.50
67	Tractor with 2T roller	Hour	HIR-00067	345.00		0.00	HIR-00201	0.00	345.00
68	Hydraulic Truck Crane 30T	Hour	HIR-00068	2763.70	LAB-00373	1627.00	HIR-00202	650.20	5040.90
69	Hydraulic Truck Crane 16T	Hour	HIR-00069	1935.40	LAB-00374	1438.90	HIR-00203	650.20	4024.50
70	Heavy Duty Airless Spray Painting Equipment	Hour	HIR-00070	104.60		0.00	HIR-00204	0.00	104.60
71	Concrete Placer Pump (25 cum/hr) (Electric) / 30 Cum	Hour	HIR-00071	813.60	LAB-00375	510.30	HIR-00205	202.80	1526.70



Government of Andhra Pradesh

**COMMON SCHEDULE OF RATES
FOR THE YEAR 2020-21
(Effective from 1st June, 2020)**

R&B Department, AP

ROAD & BRIDGE WORKS

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PART-II
ROAD & BRIDGE WORKS

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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)
 - iii) 40% extra over the rates on labour component of works for Amaravati Capital City area (217.23 Sq. Km) as declared by the Govt. vide GO MS No. 141 MA&UD (M2) Dept., dt. 9.6.2015 (This is introduced as per the Govt. instructions issued in Govt. Memo No. 668755/ Reforms/ 2017 dt. 14.7.2017).
- 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, Jaggaiahpetta 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 with in the interior Agency / Tribal limits, i.e. for the works located with in & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra allowed for the works located with in 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. 1.75 per 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.11 (Industries and commerce department) Dt. 11.2.2020 shall be shown in Part-B of the estimate. The Provision towards Contractor's Profit and Overhead charges **should not be operated** on the Seigniorage Charges. 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.

10.0 All the Materials and Machinery Hire charges are excluding taxes.

LABOUR RATES

Si. No	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
			(A) SKILLED WORKMEN			
			First Class			
1	a	LAB-00039	Stone cutter	Day	545	As per WR Dept. (S.No.39)
2	b	LAB-00011	Mason & Brick Layer	Day	550	As per WR Dept. (S.No.11)
3	c	LAB-00004	Carpenter	Day	615	As per WR Dept. (S.No.4)
4	d	LAB-00035	Painter	Day	615	As per WR Dept. (S.No.35)
5	e	LAB-00036	Plumber	Day	615	As per WR Dept. (S.No.36)
6	f	LAB-00041	Welder	Day	540	As per WR Dept. (S.No.41)
7	g	LAB-00006	Fitter	Day	585	As per WR Dept. (S.No.6)
8	h	LAB-00005	Electrician	Day	610	As per WR Dept. (S.No.5)
9	1	LAB-00125	Cook	Day	500	As per WR Dept. (S.No.2) Other Category
10	2	LAB-00012	Mechanic	Day	560	As per WR Dept. (S.No.12)
11	3	LAB-00043	Rigger	Day	570	
12	4	LAB-00044	Rigger Syrang	Day	570	
13	5	LAB-00045	Well Sinker	Day	570	
14	6	LAB-00003	Blaster	Day	605	As per WR Dept. (S.No.3)
15	3	LAB-00001	Bar bender	Day	665	As per WR Dept. (S.No.1)
16	7	LAB-00015	Tipper and Heavy Vehicle Driver above 12 T	Day	605	As per WR Dept. (S.No.15)
17		LAB-00046	Tanker and medium Vehicle driver (7.5 T to 12 T)	Day	565	
18		LAB-00047	Tanker and Light Vehicle driver up to 7.5 T	Day	435	
19		LAB-00048	Wagon Drill Operator upto 7.5 T	Day	565	
20	8	LAB-00049	Lorry and Heavy Vehicle Driver above 12 T	Day	600	
21		LAB-00027	Road Roller Driver (7.5 T to 12 T)	Day	560	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		LAB-00050	Tractor Driver 7.5 T	Day	545	
			<u>Operator</u>			
26	10	LAB-00051	Pan Mixer	Day	585	
27		LAB-00016	Concrete Mixer	Day	540	As per WR Dept. (S.No.16)

Si. No	S.S. Item No.	CFMS Code	Description	Unit (Per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
28		LAB-00032	Vibrator	Day	540	As per WR Dept. (S.No.32)
29		LAB-00052	Composer	Day	545	
30		LAB-00023	Jack Hammer	Day	540	As per WR Dept. (S.No.23)
31		LAB-00034	Driller	Day	605	As per WR Dept. (S.No.34)
32		LAB-00053	Boring Maistry	Day	525	
33	11	LAB-00024	Pump operator	Day	540	As per WR Dept. (S.No.24)
34	12	LAB-00054	Turner Grade-I	Day	570	
35	13	LAB-00135	Wireless Operator	Day	605	As per WR Dept. (S.No.12) Other Category
36	14	LAB-00055	Assistant Wireless Operator	Day	520	
37	15	LAB-00138	Jeep Driver	Day	600	As per WR Dept. (S.No.15) Other Category
38	16	LAB-00132	Work Inspector with I.T.I qualification	Day	615	As per WR Dept. (S.No.9) Other Category
39	17	LAB-00127	Work Inspector with LCE, LME,L.E.E qualification	Day	850	As per WR Dept. (S.No.4) Other Category
40	18	LAB-00130	Work Inspector with B.E (Civil, Mechanical and Electrical) qualification	Day	1100	As per WR Dept. (S.No.7) Other Category
41	19	LAB-00010	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	600	As per WR Dept. (S.No.10)
42	20	LAB-00056	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	560	
43	21 a(i)	LAB-00136	Typist / Job Typist	Day	605	As per WR Dept. (S.No.13) Other Category
	a (ii)	LAB-00134	Computer operator	Day	670	As per WR Dept. (S.No.11) Other Category
	b	LAB-00137	CAD Operator with Diploma in Engineering /General degree with CAD certificate	Day	855	As per WR Dept. (S.No.14) Other Category
			(B) SEMI –SKILLED WORKMEN			
			SECOND CLASS			
44	a	LAB-00091	Mason	Day	500	As per WR Dept. (S.No.35) Semi-Skilled
45	b	LAB-00091	Brick Layer and Stone Cutter	Day	500	As per WR Dept. (S.No.35) Semi-Skilled
46	c	LAB-00060	Carpenter	Day	500	As per WR Dept. (S.No.4) Semi-Skilled
47	d	LAB-00093	Painter	Day	500	As per WR Dept. (S.No.37) Semi-Skilled

Sl.no	S.S. Item No.	CFMS Code	Description	Unit (Per)	So Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
48	e		deleted			
49	f	LAB-00002	Blacksmith	Day	525	As per WR Dept. (S.No.2) (Skilled)
50	g	LAB-00098	Welder	Day	500	
51	h	LAB-00099	Fitter	Day	500	
52	i	LAB-00100	Electrician	Day	500	
53	2	LAB-00101	Caulker	Day	500	
54	4	LAB-00102	Tinker	Day	500	
55	5	LAB-00103	Sawyer	Day	500	
56	6	LAB-00104	Brick-Moulder	Day	500	
57	7	LAB-00105	Pot-tile turner	Day	500	
58	8	LAB-00106	Pan-tile turner	Day	500	
59	9	LAB-00107	Brick and Lime Kiln man/Glazier	Day	500	
60	10	LAB-00135	Telephone Operator	Day	605	As per WR Dept. (S.No.12) Other Category
61	11	LAB-00108	Hand Driller	Day	500	
62	12	LAB-00109	Quarry Man	Day	500	
63	13	LAB-00081	Hammer Man	Day	500	As per WR Dept. (S.No.40) Semi-skilled
64	14	LAB-00110	Thatcher	Day	500	
65	15	LAB-00111	Fireman	Day	500	
66	16	LAB-00112	Cleaner/Helper	Day	500	
67	17	LAB-00113	Stone Packer	Day	500	
68	18	LAB-00114	Jawali	Day	500	
69	19	LAB-00115	Ex-Service man/Goorkha watchman	Day	500	
70	20	LAB-00116	Ratton Worker	Day	500	
71	21	LAB-00117	Mate	Day	500	
72	1	LAB-00066	Head Mazdoor (Mukaddar)	Day	500	As per WR Dept. (S.No.10) Semi-Skilled
			(C) UNSKILLED WORKMEN			
73	2	LAB-00120	Man Mazdoor	Day	460	As per WR Dept. (S.No.3) Un-Skilled
74	3	LAB-00122	Watch Man	Day	460	As per WR Dept. (S.No.5) Un-Skilled
75	5	LAB-00121	Woman Mazdoor	Day	460	As per WR Dept. (S.No.4) Un-Skilled
76	6 (b)	LAB-00123	Helper/Cleaners/Sweepers/Scavengers/Choukidars/Security Guards/Office Boys	Day	445	
77	<i>Note : Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double the above wages.</i>					

(D) OTHER CONVEYANCE ITEMS						
Sl.no	S.S. Item No.	CFMS Code	Description	Unit (Per)	So Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
78	1	LAB-00062	Single bullock with driver and cart	Day	515	As per WR Dept. (S.No.6) Semi-Skilled
79	2		Bullock pair with driver	Day	570	
80	3	LAB-00061	Bullock pair with driver and cart	Day	550	As per WR Dept. (S.No.5) Semi Skilled
81	4	LAB-00140	Bullock pair with driver and cart with pneumatic tyres	Day	635	
82	5		Bullock pair driver and kapila	Day	Deleted	
83	6	LAB-00063	Nava with crew	Day	500	As per WR Dept. (S.No.3) Semi Skilled
84	7	LAB-00141	Punt thundal	Day	425	
85	8	LAB-00142	Punt lascar	Day	425	
	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

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
			(A) STONE AND ROAD MATERIALS			
			ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING.			
1	MAT-00405	22.a	For R.R Masonry Work (other than Granite, Dolomite and Trap)	1 cum	171.45	
2	MAT-00341	b.i	For SS Revetment work 225 mm	1 cum	150.00	As per WR Dept. (S.No.3) of Miscellaneous items
3	MAT-00176	b.ii	For SS Revetment work 300 mm	1 cum	165.00	As per WR Dept. (M 003 of Materials other than covered under Irrigation items)
4	MAT-00406	b.iii	For SS Revetment work 450 mm	1 cum	148.55	
5	MAT-00407	c	Jeddy Stone above 450 mm to 600 mm	1 cum	196.20	
6	MAT-00408	d i	Laterite for revetment 225 mm	1 cum	129.50	
7	MAT-00409	d ii	Laterite for revetment 300 mm	1 cum	151.43	
8	MAT-00410	d iii	Granite for SS revetment 225 mm	1 cum	168.55	
9	MAT-00411	d iv	Granite for SS revetment 300 mm	1 cum	163.80	
			Note:- Only when other granite is not available			
10	MAT-00412	e	Laterite for masonry	1 cum	148.55	
11	MAT-00413	f	Cyclopean stones above 0.2 cum	1 cum	278.10	
12	MAT-00302	g	For R.R.Masonry works (granite, dolomite and trap variety)	1 cum	255.00	As per WR Dept. (M 148 of Materials 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	70.00	
			COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS			
14	MAT-00414	23.a	Granite, Dolomite and trap	1 cum	274.30	
15	MAT-00415	23.b	For other varieties	1 cum	197.15	
16	MAT-00416	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1810.50	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
17			NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	82.00	
18	MAT-00417	28.a	Bond stones (600 x 200 x 200 mm)	each	47.60	
19	MAT-00418	b	Chainage stones and Centre line stones (750x150x150 mm)	each	47.60	
20	MAT-00419	31	Demarcation Stones (900 x 150 x 150 mm)	each	85.70	
21	MAT-00420	32.a	Guard Stones (1200 x 200 x 200 mm)	each	144.75	
22	MAT-00421	B	Guide Stones (800 x 150 x150 mm)	each	97.15	
23	MAT-00422	C	Carving letters and figures in stone up to 100 mm size	each	9.50	
24	MAT-00423	D	Carving letters and figures in stone above 100 mm size	each	10.50	
			HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING			
25	MAT-00215	33.a	- do - 6mm size (SS 5)	1 cum	568.00	As per WR Dept. (M 050 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
26	MAT-00216	b	- do - 10mm size (SS 5)	1 cum	716.00	As per WR Dept. (M 051 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	So Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
27	MAT-00217	c	- do - 12mm size (SS 5)	1 cum	848.00	As per WR Dept. (M 052 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
28	MAT-00218	d	- do - 20mm size (SS 5)	1 cum	1064.00	As per WR Dept. (M 053 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
29	MAT-00219	e	- do - 25mm size (SS 5)	1 cum	1024.00	As per WR Dept. (M 054 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
30	MAT-00220	f	- do - 40mm size (SS 5)	1 cum	640.00	As per WR Dept. (M 055 of Materials excluding blasting charges Rs.70/- and Machine crushing charges @ 25%)
31	MAT-00424	g	- do - 50mm size (SS 5)	1 cum	434.30	
32	MAT-00425	h	- do - 60mm size (SS 5)	1 cum	399.05	
33	MAT-00426	i	- do - 65mm size (SS 5)	1 cum	360.95	
34	MAT-00427	j	- do - 75mm size (SS 5)	1 cum	289.50	
35	MAT-00428	k	- do - 75 to 100mm size (SS 5)	1 cum	236.20	
36			NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting	1 cum	70.00	
37			(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
38			(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.	1 cum	9.90	
39			(4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made.	1 cum	17.00	
				1 cum	9.90	
			SOFT BROKEN STONE SCREENED AND FREE FROM DUST			
40	MAT-00429	33.l	- do - 40 mm size (SS 5)	1 Cum	117.15	
41	MAT-00430	33.m	- do - 50 mm size (SS 5)	1 Cum	105.70	
42	MAT-00431	33.n	- do - 60 mm size (SS 5)	1 Cum	82.85	
43	MAT-00432	33.o	- do - 65 mm size (SS 5)	1 Cum	74.30	
44	MAT-00433	33.p	- do - 75 mm size (SS 5)	1 Cum	69.50	
			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	MAT-00434	33a	-do- 2.36 to 5 mm size (IRC&MORTH)	1 cum	381.00	
46	MAT-00435	b	-do- 5 to 7mm size (IRC&MORTH)	1 cum	504.00	
47	MAT-00436	c	-do- 9.5 to 11.2mm size (IRC&MORTH)	1 cum	656.00	
48	MAT-00437	d	-do- 12mm to 14 mm size (IRC and MORTH)	1 cum	742.85	
49	MAT-00438	e	-do- 19 mm to 22 mm size (IRC and MORTH)	1 cum	937.15	
50	MAT-00439	f	-do- 25 mm to 27 mm size (IRC and MORTH)	1 cum	899.05	
51	MAT-00440	g	-do- 40 mm to 45 mm size (IRC and MORTH)	1 cum	560.00	
52	MAT-00441	h	-do- 50 mm to 55 mm size (IRC and MORTH)	1 cum	456.00	
53	MAT-00442	i	-do- 60 mm to 63 mm size (IRC and MORTH)	1 cum	419.00	
54	MAT-00443	j	-do- 65 mm size (IRC and MORTH)	1 cum	360.95	
55	MAT-00444	k	-do- 75 mm size (IRC and MORTH)	1 cum	289.50	
56		l	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70.00	As proposed by WR Dept.

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
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	9.90	
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	17.00 9.90	
			HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST			
60	MAT-00445	33.q	- do - 10 mm size (SS 5)	1 Cum	367.60	
61	MAT-00446		-do- 9.5 mm to 11.2 mm size (IRC and MORTH)	1 Cum	367.60	
62	MAT-00447	r	- do - 12 mm size (SS 5)	1 Cum	344.75	
63	MAT-00448		-do- 12mm to 14 mm size (IRC and MORTH)	1 Cum	344.75	
64	MAT-00449	S	- do - 20 mm size (SS 5)	1 Cum	279.05	
65	MAT-00450		-do- 19 mm to 22 mm size (IRC and MORTH)	1 Cum	279.05	
66	MAT-00451	T	- do - 25 mm size (SS 5)	1 Cum	273.35	
67	MAT-00452	U	- do - 40 mm size (SS 5)	1 Cum	161.90	
68	MAT-00453		-do- 40 mm to 45 mm size (IRC and MORTH)	1 Cum	161.90	
69	MAT-00454	V	- do - 50 mm size (SS 5)	1 Cum	142.85	
70	MAT-00455		-do- 50 mm to 55 mm size (IRC and MORTH)	1 Cum	142.85	
71	MAT-00456	33.w	- do - 65 mm size (SS 5)	1 Cum	135.25	
72	MAT-00457		-do- 60 mm to 65 mm size (IRC and MORTH)	1 Cum	135.25	
73	MAT-00458	X	- do - 75 mm size (SS 5)	1 Cum	111.45	
74	MAT-00459		- do - 75 mm size (IRC &MORTH)	1 Cum	111.45	
75	MAT-00460	Y	- do - 75 to 100 mm size (SS 5)	1 Cum	87.60	
76	MAT-00461		- do - 75 to 100 mm (IRC& MORTH)	1 Cum	87.60	
			OTHER ITEMS			
77	MAT-00462	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	96.20	
78	MAT-00463	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	71.45	
79	MAT-00464	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	90.50	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
80			NOTE:- (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23	1 Cum	70.00	As proposed by WR Dept.
81	MAT-00465	z4	Soling stone of 150 mm size other than granite variety	1 Cum	72.40	
82	MAT-00466	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	44.75	
83	MAT-00467	z6	Field picked metal unbroken 20 mm size	1 Cum	58.10	
84	MAT-00468	z7	- do - 25 mm size	1 Cum	43.80	
85	MAT-00469	z8	- do - 40 mm size	1 Cum	50.50	
86	MAT-00470	z9	- do - 50 mm size	1 Cum	43.80	
87	MAT-00471	z10	- do - 60 mm size	1 Cum	38.10	
88	MAT-00472	z11	- do - 80 mm size	1 Cum	33.35	
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.		17.00	
90	MAT-05253	34	Gravel	1 Cum	130.00	As per WR Dept. (M 008 of Materials other than covered under Irrigation Items)
91	MAT-00473	35 a	Quarry rubbish	1 Cum	84.75	
92	MAT-00068	B	HBG Stone Chips 2.36 mm and below	1 Cum	381.00	As per WR Dept. (Sl.No.67 of Materials)
93	MAT-00027	36.a	Fine aggregate / Sand (un-screened) for Concrete & Filtering items	1 Cum	510.00	As per WR Dept. (Si. No. 27 of Materials) and will be revised as per the Govt. new sand policy
94	MAT-00028	b.	Fine aggregate / Sand (unscreened) for filling	1 cum	375.00	
95	MAT-00029	c	Fine aggregate / Sand (screened) for Mortar, Plastering items and Sand blasting items (Rs. 90/- is added towards screening charges)	1 Cum	605.00	As per WR Dept. (Si. No. 28 of Materials) and will be revised as per the Govt. new sand policy
96	MAT-00475	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	38.00	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
			(C) LIME AND CEMENT			
97		40 to 41(c)			As per local prevailing rates based on competitive rates	
98	MAT-00005	42	Cement excluding cost of empty cement bags	1 MT	3672/-	Monthly rates will be communicated by the Govt
	NOTE: (1) The rates are exclusive of VAT, Excise duty and GST 2) The price of cement will be reviewed and fixed on monthly basis and rates will be communicated separately.					
99	MAT-00476	C	Grinding lime mortar or Surkhi mortar	1 Cum	95.25	
100	MAT-00477	D	Shell lime slaked and screened	1 Cum	940.00	
101	MAT-00478	E	White cement	1 Kg.	27.95	
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 the 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 exclusive of VAT, Excise duty and GST 2) 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	MAT-00479	1.a	Clearing heavy Jungle	1 Sqm	3.20	
110	MAT-00480	b	Clearing light Jungle	1 Sqm	2.80	
111	MAT-00481	c	Clearing Scrub Jungle	1 Sqm	2.80	
112	MAT-00482	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	4.40	
113	MAT-00483	2.a.1	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	21.00	
114	MAT-00484	a.2	- do - 100 to 200 cm.	Each	48.00	
115	MAT-00485	2.b.1	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	51.00	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
116	MAT-00486	b.2	- do - 100 to 200 cm.	Each	53.00	
117	MAT-00487	2.c.1	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	26.00	
118	MAT-00488	c.2	- do - 100 to 200 cm	Each	39.00	
119	MAT-00489	2.d.1	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	26.00	
120	MAT-00490	d.2	- do - 100 to 200 cm	Each	33.00	
121	MAT-00491	2.e 1	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	33.00	
122	MAT-00492	e.2	- do - 100 to 200 cm	Each	51.00	
123	MAT-00493	e.3	- do - above 200 cm	Each	83.00	
124	MAT-00494	2.f.1	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	26.00	
125	MAT-00495	f.2	- do - 100 to 200 cm	Each	36.00	
126	MAT-00496	f.3	- do - above 200 cm	Each	45.00	
127	MAT-00497	3.a	Uprooting and clearing prickly pear jungle	1 Sqm	2.50	
128	MAT-00498	b	- do - under 2.5 meters height including burning and burrying as directed.	1 Sqm	3.30	
129	MAT-00499	c	- do - over 2.5 meters height including burning and burrying with an initial lead of conveyance	1 Sqm	3.90	
130	MAT-00500	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	MAT-00501	b.i	Clearing alchi, tilla	1 Sq.m	4.20	
132	MAT-00502	b.ii	Removal of Jammu	1 Sq.m	3.60	
133	MAT-00503	c.i	Removal of imponea, cornea	1 Sq.m	4.00	
134	MAT-00504	c.ii	Removal of water hyacinth upto 30 cm thick.	1 Sqm	4.10	
135	MAT-00505	c.iii	- do - more than 30 cm thick	1 Sq.m	5.50	
136	MAT-00506	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	MAT-00507	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			

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
		a)	Manually (Hand)			
138	MAT-00508	i)	20 mm dia meter	1 RM	136.00	
139	MAT-00509	ii)	25 mm dia meter	1 RM	144.00	
140	MAT-00510	iii)	36 mm dia meter	1 RM	166.00	
141		b)	Pneumatic Compressor			
142	MAT-00511	i)	20 mm dia meter	1 RM	154.00	
143	MAT-00512	ii)	25 mm dia meter	1 RM	167.00	
144	MAT-00513	iii)	36 mm dia meter	1 RM	182.00	
		8	Grouting the holes with neat cement slurry excluding cost of steel			
145	MAT-00514	i)	20 mm dia meter	1 RM	97.00	
146	MAT-00515	ii)	25 mm dia meter	1 RM	122.00	
147	MAT-00516	iii)	36 mm dia meter	1 RM	152.00	
			White Washing and Painting works			
148	MAT-00517	A	White washing and colour banding for guard and guide stones including cost of materials	each	10.00	
149	MAT-00518	B 1	Screening sand and gravel	1 cum	10.50	
150	MAT-00519	B 2	Screening chips and metal	1 cum	17.60	
151	MAT-00520	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 EDGEBUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OFGRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER (1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE			
			(For a compact thickness)			
		1 (i)	HARD METAL			

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
152	MAT-00521	A	40 mm thickness	10 sqm	70.00	
153	MAT-00522	B	50 mm thickness	10 sqm	74.00	
154	MAT-00523	C	75 mm thickness	10 sqm	80.30	
155	MAT-00524	D	100 mm thickness	10 sqm	87.00	
156		1 (ii)	(For compact thickness of soft metal)			
157	MAT-00525	A	50 mm thickness	10 sqm	53.80	
158	MAT-00526	B	75 mm thickness	10 sqm	63.90	
159	MAT-00527	C	100 mm thickness	10 sqm	70.10	
		5	Picking old metalled surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage and power roller rolling including hire charges of power roller(8 to 10 T) barricading and diversion of traffic and wetting the new consolidation for a fortnight(for compacted thickness of)			
			HARD METAL			
160	MAT-00528	5 (a)	40 mm thick ness	10 sqm	185.00	
161	MAT-00529	(b)	50 mm thick ness	10 sqm	210.00	
162	MAT-00530	(c)	75 mm thick ness	10 sqm	231.00	
163	MAT-00531	(d)	100 mm thick ness	10 sqm	248.80	
164	MAT-00532	(e)	150 mm thick excluding hire charges	10 sqm	445.40	
165	MAT-05455		Gelatin(For MORTH data, for works of state & national high ways only)	Per Kg	60.00	As per WR Dept. (M 104 of Materials other than covered under Irrigation Items)
166	MAT-00021		Electric Detonators(For MORTH data, for works of state & national high ways only)	each	9.00	As per WR Dept. (Si. No. 21 of Materials of WR Dept.)
167	MAT-00273		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 Materials 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	MAT-00533		Road marking paint confirming to IS 164(For MORTH data, for works of State &	Per Kg	152.15	

Si. No	CFMS Code	S.S. Item No.	Description	Unit (per)	S o Rate for 2020-21 in Rs.	Remarks
1	2	3	4	5	6	7
			National high ways only)			
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	MAT-00003		Binding Wire	1 Kg	56.00	As per WR Dept. (M 072 of Materials other than covered under Irrigation Items)
174	MAT-00536		Jute rope	Mtr	8.35	
175	MAT-00537		De bonding strips	Mtr	8.55	
176	MAT-00538		Selent	Ltr	53.95	
177	MAT-00539		Poly sheet 125 microns	1 sqm	15.25	
178	MAT-00540		Rural water rate	1 kl	83.00	As per WR Dept. (M 189-b of Materials other than covered under Irrigation Items)

HIRE CHARGES OF PLANT AND MACHINERY

**HIRE CHARGES OF PLANT & MACHINERY FOR
ROAD & BRIDGE WORKS FOR THE YEAR 2020-21**

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2020-21 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
1	HIR-00008	Dozer(D 80)	Spreading	Per Hour	2584.40	As per WR Dept. (S.No.8)
			Cutting			
			Cleaning			
2	HIR-00072	Dozer (D50)	Spreading Cutting Cleaning	Per hour	1635.00	
3	HIR-00073	Mortor Grader	Clearing	Per Hour	3192.00	
			Spreading			
			GSB			
			WMM			
4	HIR-00052	Hydraulic Excavator	Soil Ordinary	Per Hour	2945.40	As per WR Dept. (S.No.52)
			Soil Marshy			
			Soil unsuitable			
5	HIR-00074	Front end loader	Soil loading	Per Hour	1701.00	
			Aggregate loading	Per Hour		
6	HIR-00052	Tipper- 5.5 Cum	Transportation of soil, GSB, WMM, Hot mix etc	Per Hour	1014.30	As per WR Dept. (S.No.54)
7	HIR-00062	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2924.90	As per WR Dept. (S.No.62)
			WMM			
8	HIR-00075	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1421.50	As per WR dept. (S.No.50)
9	HIR-00064	Water tanker 8 Kilolitre	Water transport	Per Hour	987.90	As per WR Dept. (S.No.64)
10	HIR-00076	Water tanker 6 Kilolitre	Water transport	Per Hour	691.00	
11	HIR-00077	Tractor	Pulling	Per Hour	446.00	
12	HIR-00078	Tractor with rotavator	GSB mixing @ site	Per Hour	456.00	
13	HIR-00079	Tractor with ripper attachment	Scarifying	Per Hour	456.00	
14	HIR-00002	Air Compressor 5 cmm(electric)	General purpose	Per Hour	576.60	As per WR Dept. (S.No.2)
15	HIR-00080	Wet mix plant 60 TPH	Wet mix	Per Hour	1747.00	
16	HIR-00081	Mechanical broom Hydraulic	Surface cleaning	Per Hour	381.80	
17	HIR-00082	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1603.00	

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2020-21 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
18	HIR-00083	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	919.00	
19	HIR-00084	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC /Premix	Per Hour	30143.00	
20	HIR-00085	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC /Premix	Per Hour	25868.00	
21	HIR-00086	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	23197.00	
22	HIR-00087	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	20523.00	
23	HIR-00088	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3271.00	
24	HIR-00089	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2405.00	
25	HIR-00090	Hydraulic Chip Spreader	Surface dressing	Per Hour	2743.70	
26	HIR-00091	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1856.50	
27	HIR-00092	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1515.60	
28	HIR-00093	Pot-Hole repair machine	Repair of pot-holes	Per Hour	903.00	
29	HIR-00094	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	223.00	
30	HIR-00095	GSB Plant 50 Cum	Producing GSB	Per Hour	1279.70	
31	HIR-00096	Mastic Cooker	Mastic wearing coat	Per Hour	79.50	
32	HIR-00097	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1336.00	
	HIR-00010	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1128.60	As per WR Dept. (S.No.10)
33	HIR-00001	Transit mixer	Transportation of concrete mix	Per Hour	2185.70	As per WR Dept. (S.No.1)
34	HIR-00071	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	1526.67	As per WR Dept. (S.No.70)
35	HIR-00098	Cranes				
		(a) 80 tonnes	Lifting purpose	Per Hour	1311.20	
	HIR-00099	(b) 35 tonnes			885.70	
	HIR-00100	(c) 3 tonnes			429.60	
	HIR-00101	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2308.90	
	HIR-00102	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	3775.80	
36	HIR-00014	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	13.30	As per WR Dept. (S.No.14)

Sl. No.	CFMS Code	Description		Unit	S o Rate for 2020-21 in Rs.	Remarks
		Machine	Activity			
1	2	3	4	5	6	7
37	HIR-00103	Kerb casting machine	Kerb making	Per Hour	538.00	
38	HIR-00018	Concrete mixer (a)0.28 cum	Concrete mixing	Per Hour	566.10	As per WR Dept. (S.No.18)
	HIR-00104	(b) 1.0 cum				
39	HIR-00105	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	6131.70	
40	HIR-00106	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	3247.20	
41	HIR-00107	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	9755.20	
	HIR-00108		Crushing of spalls 200 TPH	Per Hour	20570.00	
42	HIR-00109	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	157.80	
43		Generator				
	HIR-00110	250 KVA	Generation of electric energy	per hour	2162.60	
	HIR-00111	125 KVA		per hour	1543.10	
	HIR-00112	100 KVA		per hour	1316.30	
	HIR-00023	30 KVA		per hour	1094.30	As per WR Dept. (S.No.23)
44	HIR-00113	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	5701.00	
45	HIR-00058	Truck 5.5 cum per 10 tonnes	Material transport	Per her	978.30	As per WR Dept. (S.No.58)
46	HIR-00114	Road marking Machine	Road marking	Per Hour	135.50	
47	HIR-00114	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1261.40	
48	HIR-00115	Plate compacter	For compacting in medians	Per Hour	59.10	
49	HIR-00022	Drilling equipment	For drilling	Per Hour	941.30	As per WR Dept. (S.No.22)
		<p><i>Note: The above hire charges of Machinery & Plant includes crew, oils, conveyance of Machinery to site and all other incidental charges</i></p>				

SoR – 2020-21

Part – IV
PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2020-21
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulker	Per Day	As per Labor 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, knuckles 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, knuckles 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, knuckles and chisels including stacking.		
f.	For controlled blasting at restricted places		
	NOTE: - Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack 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. Up to 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. Up to 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 hummable 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 Meter	

PUBLIC HEALTH ITEMS				
Sl. No.	Description	Unit	Code	SoR rates for 2020-21
1	2	3	4	5
8. b.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994)			
	DIAMETER OF PIPE/Fittings in mm :			To follow as per AP. Standard data
	80mm to 750mm dia.			
	800	Per Meter	LAB-00587	624
	900	Per Meter	LAB-00588	811
	1000	Per Meter	LAB-00589	1054
	1100	Per Meter	LAB-00590	1298
	1200	Per Meter	LAB-00591	1543
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	LAB-00592	16304
	1000	Each Joint	LAB-00593	18215
	1100	Each Joint	LAB-00594	20123
	1200	Each Joint	LAB-00595	22033
9. b.	Jointing C.I., D.I. pipes and fittings with rubber gasket (push-on-joint),excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete (Reference to specifications IS			

	3114/1994/12888/1997)			
	Diameter of Pipe/Fittings in mm :		To follow as per AP. Standard data	
	80mm to 1000mm dia.	Each Joint		
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 :			
	80mm to 750mm dia.	Each Joint	To follow as per AP. Standard data	
	800	Each Joint	LAB-00596	6836
	900	Each Joint	LAB-00597	8040
	1000	Each Joint	LAB-00598	9259
	1100	Each Joint	LAB-00599	10508
	1200	Each Joint	LAB-00600	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 up to 500 Meters excluding cost of rubber rings as per BIS No.783/85.			
	per every 25 mm dia.	Per Meter	LAB-00601	24
11b	Lowering the RCC S/S pipes carefully into the readymade trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead up to 500 meters including cost of rubber rings as			

	per BIS No. 783/1985			
	per every 25 mm dia.	Per Meter		
	80mm to 600mm		To follow as per AP. Standard data	
	700		LAB-00602	377
	800		LAB-00603	453
	900		LAB-00604	543
	1000		LAB-00605	651
12	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85			
a	G.I. Pipes :Dia. in mm		To follow as per AP. Standard data	
	15mm to 150mm	Per Meter		
12-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 refilling.			
	DIA in mm			
	50	Per Meter	LAB-00606	38
	40	Per Meter	LAB-00607	38
	32	Per Meter	LAB-00608	38
	25	Per Meter	LAB-00609	35
	20	Per Meter	LAB-00610	33
	NOTE: - (i) The above rates are applicable for the works in District only.			
	(ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.			
13	Lowering and laying in readymade trench true to alignment and gradient, jointing,			

	and testing of Stone ware pipes including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)		
	Dia. of Pipes in mm		To follow as per AP. Standard data
	100mm to 450mm	Per Meter	
14	Lowering, Laying, Jointing and Testing to hydraulic test pressure including cost of water with minimum water lead of 500m for UPVC pressure pipes in readymade trenches to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing material as per BIS No: 7634 part-III-1975.		
	Dia. Of pipe	Per Meter	To follow as per AP. Standard data
	63 to 315mm		
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.		
	Outer Dia. of pipes in MM		
	63 to 355 mm dia.		To follow as per AP. Standard data
	400		LAB-00611 268
	450		LAB-00612 296
16	Lowering, keeping in position and fixing D.I. sluice valves (with cap / with hand wheel & Reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces		
	<u>Dia. of Valve in mm.</u>		To follow as per AP. Standard data
	80mm to 600mm	Each	
17	Labor charges for fixing <u>Air valves</u> including boring the		

	mains and threading the bore fixing nipple etc., complete.			
	Dia. of Air valve in mm.			
	25	Each	To follow as per A.P. Standard data	
	40	Each		
	50	Each	LAB-00613	195
	65	Each	LAB-00614	207
	80	Each	LAB-00615	224
	100	Each	LAB-00616	266
	125	Each	LAB-00617	414
	150	Each	LAB-00618	453
18	Labor 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	LAB-00619	184
	40	Each	LAB-00620	208
	50(Double Air valves)	Each	LAB-00621	221
	65	Each	LAB-00622	237
	80	Each	LAB-00623	259
	100	Each	LAB-00624	301
	125	Each	LAB-00625	471
	150	Each	LAB-00626	516
19	Uprooting C.I. / DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.			
	80mm to 600mm	Per Meter	To follow as per AP. Standard data	
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, separating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.			
	100mm to 300mm	Per Meter	To follow as per AP. Standard data	
21	Removing old G.I. pipes and specials / fittings and cleaning, scraping the pipes, hoisting and			

	keeping within 50m lead but excluding earth work excavation of trenches and refilling.			
	Dia. of Pipes in mm			
	15mm to 50mm	Per Meter	To follow as per AP. Standard data	
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	LAB-00627	572
	700	Each cut	LAB-00628	587
	750	Each cut	LAB-00629	633
	800	Each cut	LAB-00630	673
	900	Each cut	LAB-00631	756
	1000	Each cut	LAB-00632	840
	1100	Each cut	LAB-00633	926
	1200	Each cut	LAB-00634	1010
23	Cutting A.C. Pipes without water in mains Dia. of pipes in mm.			
	Dia. of Pipes in mm			
	80	Each cut	LAB-00635	37
	100	Each cut	LAB-00636	37
	125	Each cut	LAB-00637	37
	150	Each cut	LAB-00638	37
	200	Each cut	LAB-00639	39
	250	Each cut	LAB-00640	64
	300	Each cut	LAB-00641	64
	350	Each cut	LAB-00642	79
	400	Each cut	LAB-00643	87
	450	Each cut	LAB-00644	108
	500	Each cut	LAB-00645	120
	600	Each cut	LAB-00646	132
24	Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.			
	10 mm to 20mm	Each Tapping	To follow as per AP. Standard data	
	25 mm to 40mm	Each Tapping		
25	Cutting road surface including stacking of excavated materials for pipe line trench work.			
	a) Cutting open B.T. road surface (as well as asphalt concrete up to	10 Sqm	LAB-00647	794

	75 mm thick) including water bound macadam			
	b) Cutting open C.C. road surface with concrete saw cutter and removal with Breaker	1 Cum	LAB-00648	2424
	c) Cutting open water bound macadam road including soiling	1 Cum	LAB-00649	270
26	Bailing out water.(For PH item)			
	a) Bailing out water from the pipe line trenches with oil engine driven pump sets, including hire charges, fuel charges and wages for Driver and Helper up to 5HP capacity pumps.	HP/Hour	LAB-00650	To adopt the rate arrived for 5HP capacity pump based on the WR department data.
	b) Bailing out water from the pipe line trenches with Electric Driven pump set including hire charges, current charges and wages for Driver and Helper up to 5HP capacity pumps.	HP/Hour	LAB-00651	To adopt the rate arrived for 5HP capacity pump based on the WR department data.
	c) For capacity of Pumps more than 5HP			
	A. Water lifting charges using Electrical driven pump			
	i. per HP hr rate(including contractors profit and overhead charges of 13.615%	Per HP hr	LAB-00652	Rs.10.24/-
	ii. Other expenses in terms of Mazdoor, pump operator and pipe laying and dismantling(including contractors profit and overhead charges of 13.615%) per hr	Per hr	LAB-00653	Rs.166.78/-
	Total hire charges of Electrically driven dewatering pump per hour	Per hr	= (10.24xhp capacity) +166.78	
	B. Water lifting charges using Diesel driven pump			
	i. per hphr rate(including contractors profit and overhead charges of 13.615%	Per hphr	LAB-00655	Rs.25.51/-
	ii. Other expenses in terms of Mazdoor, pump operator and	Per hr	LAB-00656	Rs.201.55/-

	pipe laying and dismantling(including contractors profit and overhead charges of 13.615%) per hr			
	Total hire charges of Diesel driven dewatering pump per hour	Per hr	= (25.51xhp capacity)+201.55	
	NOTE:- The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.			
27	Shoring and strutting of trenches for water and sewer main			
	a) Single Staging from (0 to 2.5 Mts.)	1 Sqm of Shoring area	To follow as per AP. Standard data	
	b) Double staging from (2.5 m to 4.5 Mts.)	1 Sqm of Shoring area		
28	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.	1 RMT	To follow as per AP. Standard data	
29	Excavation of trenches for infiltration galleries, siphon 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	LAB-00658	13223
	b) 1 to 2 m deep under water.	10 Cum	LAB-00659	18941
	c) 2 to 5 m deep under water.	10 Cum	LAB-00660	28429
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	LAB-00661	5431
	NOTE:- The above rates do not include rock requiring blasting or chiseling			
30	Laying and jointing <u>perforated RCC pipes</u> 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	LAB-00662	41.20
	Per every 25 mm dia.			
31	Centering and scaffolding charges for RCC members			

	including all materials and labor charges for forming and dismantling.			
a)	for RCC 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)		LAB-00663	4028
	2) Slabs for thickness above 300 mm		LAB-00664	extra for every 50mm thickness increase Rs.473/-
	3) Side walls curved surfaces. (rate is for both sides centering)		LAB-00665	3044
	4) Side wall straight surfaces. (rate is for both sides centering)		LAB-00666	2708
	5) Dome.		LAB-00667	3300
	6) Roof Slab.		LAB-00668	1846
	7) Column braces and beams		LAB-00669	1359
	8) Circular braces, ring beams & circular column.		LAB-00670	1491
	Note: - For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m --- 21% 24 m -27m --27% above27m --- 30%			
Note: The Centering charges for item No's.3 & 4 are for both the faces of the respective numbers. The measurement of centering charges shall be in "Sqm" for one face only and the centering charges given are for two faces of centering.				
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-a) RCC vertical walls of plane surface (rate is for both sides centering) including open drains	1 Sqm of centering area	LAB-00671	1000/Sqm
	4-b) VCC vertical walls of plane surface (rate is for both sides centering) including open drains	1 Sqm of centering area	LAB-00672	980/ Sqm
	5) RCC vertical walls of circular faces (rate is for both sides centering)	1 Sqm of centering area	LAB-00673	1270/ Sqm
Note: The Centering charges for item No's 4 & 5 are for both the faces of the				

	respective numbers. The measurement of centering charges shall be in “Sqm” for one face only and the centering charges given are for two faces of centering.			
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	LAB-00674	161
	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 there of beyond the initial depth of 3 meters from ground level.	1 Cum	LAB-00675	50
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 by manual means from sullage drains with aid of baskets and vessels.	10 Cum	LAB-00676	2734
41	Well sinking in sandy and other loose soils under water either by manual labor, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc.,			
	Up to 2 m below GL/m	Per meter	To adopt as per Standard data	
	From 2 to 4 m below GL/m	Per meter		
	From 4 to 6 m below GL/m	Per meter		
	From 6 to 8 m below GL/m	Per meter		
	From 8 to 10 m below GL/m	Per meter		

42	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data	
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.			
a	500 Kilo liters	Per liter	LAB-00677	19.11
b	1000 Kilo liters	Per liter	LAB-00678	15.88
c	1500 Kilo liters	Per liter	LAB-00679	14.31
d	2000 Kilo liters	Per liter	LAB-00680	12.46
e	2500 Kilo liters	Per liter	LAB-00681	11.68
	1) The above rates are arrived with base rate of Cement Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel Rs 39000/- per MT(Fe 500) (BoCE rates for the month of February-2020) and as per sand rates finalized by the BoCE's & communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.			
	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 <u>SBC of 15 T/Sqm.</u>			
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by <u>2.50% on basic rate.</u>			
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by <u>1.0% on basic rate up to 20 T/Sqm</u>			
	c) For SBC below 10T/Sqm , solid raft shall be provided and for solid raft the rate shall be increased by <u>10% on basic rate.</u>			
	d) For SBC value of less than 5 T/Sqm, soil improvement shall be adopted, for which additional payment shall be made as per field condition.			
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paisa on basic rate per liter per every Meter decrease in staging.			
	6) For staging above 15 m, the rate shall be increased by Rs.0.10 paisa on basic rate per liter 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 $\{(Rc-3672)/3672\} \times 0.07$ Rc = Rate of Cement (Rs per MT) at the time of preparation of estimate.			
	8) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x $\{(Rs-39000)/39000\} \times 0.2$ Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.			
	9) a) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.			

	b)The rate inclusive of 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, Pipes, Pipe specials, valves of DI material, Valve chambers etc., for pipe connections including cost of pipes, specials and valves as per departmental designs and drawings.
	10) For tribal/Agency / Rural area, the above rates as arrived up to shall be increased by 10%.
	11) The above rates adopted for a wind pressure up to "250 kg/Sqm". For every 100 kg/Sqm decrease in wind pressure, the rate shall be decreased by 5%
	12) a) The Basic rate is adopted by considering the design for Seismic forces for Zone- II only of seismic zones.
	(b) The basic rates shall be increased by 15 % for Zone-III of seismic zones.
	13-(a). The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities above 500 KL & up to 1000KL.
	13-(b). The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.
	14. The shaft type staging with slip form can also be provided with proper approval from competent authority without any additional cost.
	15) The basic rate is inclusive of following <u>Fixtures</u>
	i) Pipe connections & Specials with D.I materials
	(a) All pipe connections for Inlet, Out let, Over Flow, Scour pipes shall be provided with D/F DI material. (b) The Valves for above pipe connections also shall be of DI material of PN 16 duty confirming to the specification of SoR item No.28 (c) All specials such as Bends, Tees, Reducers, Duck foot Bends, Bell mouths etc., Shall be of DI material.
	II) The sizes of the verticals for ELSR/OHSR shall be:
	a) For 500 KL to 750 KI ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia. DI valves – 2 No's Over Flow pipe - 350m dia. Scour Pipe - 200mm dia.
	b) For 800 KL to 1500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia. DI valves – 2 No's Over Flow pipe - 450m dia. Scour Pipe - 200mm dia.
	c) For above 1500 KL to 2500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia. DI valves – 2 No's Over Flow pipe - 500m dia. Scour Pipe - 200mm dia.

	Note: Any deviation from the above sizes as per design, shall be paid or recovered.
	(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 sides and collapsible MS gate on front side up to 1 st brace level, to prevent unauthorized entry.
	ix) Construction of R.C.C valve chambers as per Standard Drawings with RCC cover slab fixed with CI/DI manhole Frame & Cover with lock and Key arrangement. The Mix shall not be less than VRCC M 20 grade with 150mm thick side walls, 150mm thick top slab, 150mm thick base slab over base course of 100mm thick (1:4:8) prop.
	x) Balcony of 1.00 m width at floor slab level / middle ring beam level by using Stainless Steel pipe of grade 304 hand railing up to 1.20 m height, with top railing of 40mm dia. pipe & middle railing of 25mm dia. and verticals with 40mm dia. at an interval not more than of 1.00m c/c.
	xi) Water Level Indicator of reputed make – Digital type (1 No) and Conventional type (1 No)
	xii) Lightning Arrestor with all its accessories complete including earthing, with relevant IS Codes - 1 No.
	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 hall is 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 Ground 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 angular of 25mm X 25mm X 4mm in "Y" shape to height of 0.60m, with embedded length of 150mm in concrete. The barbed wire fencing with 3 ply of 18 gauges 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		
	<p>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.:</p> <p>i)500 KL : 0.086%</p> <p>ii)1000 KL : 0.047%</p> <p>iii)1500 KL : 0.034%</p> <p>iv)2000 KL : 0.026%</p> <p>v)2500 KL : 0.022 %</p> <p>For intermediate capacities, interpolated percentages shall be adopted.</p>		
	xiv) Staff Quarter shall be constructed for a minimum plinth area of 40 Sqm with the following specification: RCC framed structure with concrete grade not less than M20 design mix at the locations specified by the department at the time of execution with veranda, hall, bed room, kitchen and bath &W/C with floor area of 40.00sqmts excluding balconies and staircases.		
	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 open able 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.		Rs/liter
a	Up to 10,000 Liters capacity	Per liter	LAB-00682 58.91
b	15,000 Liters capacity	Per liter	LAB-00683 44.00
c	20,000 Liters capacity	Per liter	LAB-00684 39.80
d	40,000 Liters capacity	Per liter	LAB-00685 33.74
e	60,000 Liters capacity	Per liter	LAB-00686 25.57
f	1,00,000 Liters capacity	Per liter	LAB-00687 23.59
g	2,00,000 Liters capacity	Per liter	LAB-00688 20.62
h	3,00,000 Liters capacity	Per liter	LAB-00689 19.40
i	4,00,000 Liters capacity	Per liter	LAB-00690 17.09
j	4,50,000 Liters capacity	Per liter	LAB-00691 14.77
	NOTE: -1). All concrete members shall be designed with M30 grade design mix.		
	2) For intermediate ranges proportional rates may be adopted		

	2) The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.3672/- per tonne for cement (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Rs.39000/- per tonne for steel(Fe 500) and as per sand rates finalized by the BoCE's & communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.
	3) For every Meter of staging less than 10 m, the rate shall be reduced by Rs.0.05 paisa per liter 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 paisa per liter 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-3672)/3672} x 0.07 Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate.
	6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x { (Rs-39000)/39000 x0.2 Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.
	7) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.
	8) The above rates shall be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of whether 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 up to 250 kg / Sq m .For decrease in wind pressure the rate has to be decreased by 5% per every 100kg/Sqm. If the ELSR / OHSR are to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.
	10) (a)For tribal/Agency / Rural area, the above rates as arrived up to shall be increased by 10%. (b) An additional increase of 7.50% shall be allowed for OHSRs/ELSRs located in agency areas over the above rates for RWS Department works.
	11) If the ELSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities 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 up to Zone-II earth quake. b) For Zone-III earth quake the above rates are to be increased by 15 %.
	13) The rate is arrived with the Cement rate of Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel rate of 39000/(Fe 500)- approved by the BoCE for the month of February-2020.
	13) Fixtures include :
	a) RCC or Aluminum ladder inside 0.60 m wide.

	b) Spiral staircase on the outside shall be provided up to 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 up to 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 up to 1st brace level from ground level to prevent unauthorized entry.		
	l). D.I swan neck ventilators shall be provided in top dome and slab.		
	m). The above rates are exclusive of all inlet, out let connection and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves of heavy duty conforming to the specification of SoR item No.28		
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 liter	LAB-00692 4.64
	2) 5.0 MLD	Per liter	LAB-00693 3.78
	3) 10.0 MLD	Per liter	LAB-00694 3.41
	4) 20.0 MLD	Per liter	LAB-00695 2.74
	5) 30.00 MLD and above	Per liter	LAB-00696 2.38
	NOTE :-		
	a) For Intermediate Capacities proportional rates may be adopted		

	b) The above rates are applicable with Cement @ rate of Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) and Steel of Rs. 39000/MT.(Fe 500) and as per sand rates finalized by the BoCE's & communicated vide Lr. No .ENC/IW/SE(P&M)/EE.1/DEE.2/AEE(K)/SoR 2019-20/VOL-4 Dt:25-10-2019.
	c) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x $\{(Rc-3672)/3672\} \times 0.07$ Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate
	d) The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x $\{(Rs-39000)/39000\} \times 0.2$ 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 Stain less 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 arrived with the Cement rate of Rs.3672/- per MT (as per G.o.Ms.No.22 Dt:13-04-2020 of YSR NIRMAN) & Steel rate of 39000/- approved by the BoCE for the month of February-2020.
	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) Pre settling tank shall be provided for 30 MLD and above capacities of WTP for a minimum of 1 hr capacity.
	3). Raw water channel with Stainless Steel Weir of SS 304 L Grade material and also with digital flow meters
	4) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc, using 304 L Grade Steel.
	5-a) Clariflocculator / Flocculation tanks with the components of central driven circular clarifier with scrapper & bridge arrangements made with Stainless Steel Grade 304 L tubes /angular for durability & chemical resistant with wheel arrangements etc,
	5-b) Two numbers of Clariflocculator shall be provided for WTP's of more than 30 MLD capacity.
	6) Filter house, Chemical house, Alum store, Laboratory room, Chlorination plant room, toilet etc. (All structures shall be provided RCC roof only).Chemical house & Chlorinator rooms are to be isolated and shall be as per CPHEEO manual.
	7) 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.
	8) Chlorine contact tank

	<p>9) All the Doors and Windows shall be of Best Teak wood/Aluminum / UPVC make, except entrance door. The entrance door including shutter in filter house shall be with best teak wood of minimum size of 2.40 X 2.40 mts.</p> <p>a) Main Doors of all individual Buildings shall be made of Best Teak wood</p> <p>b) Other Internal Doors of the buildings shall be of Compressed wood/ Aluminum/ UPVC materials.</p> <p>c) Ventilators shall be provided for each building/structure of suitable size as per NBC standards.</p>
	<p>10) 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 Clariflocculator/ 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.</p> <p>b) All the Valves in Plant shall be heavy duty and as per the specification of SoR item No.28</p>
	<p>11) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be sufficiently spaced for easy operation & maintenance and inspection, as per standard norms.</p>
	<p>12) The bottom level of the wash water control chamber must be above G.L so as to dispose the wash water and sludge from Clariflocculator by gravity to disposal point.</p>
	<p>Additional specifications</p>
	<p>13) Railing for all the components (Clariflocculator, Filter House, Staircase etc,.) shall be provided with Stainless Steel of grade 304 for a height of 1.00m, with 40mm dia. pipe for top horizontals, 25mm dia. for middle row and 40mm dia. verticals spaced at interval of not more than 1.00m c/c.</p>
	<p>14) Inspection / Path ways in filter beds: Middle pathway: Minimum of 1.50m, Side pathway: Minimum of 1.20m</p>
	<p>15) 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.</p>
	<p>16) The basement of the Filtration plant building shall be minimum of 1.20m and pipe gallery shall be minimum 0.3m above the existing nearby Road top level.</p>
	<p>17) Minimum head room of 2.00m shall be provided, at the alum mixing chambers in alum store for inspection & maintenance.</p>
	<p>18) 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.</p>
	<p>18) b) For various components of the WTP should be designed by considering the uplift pressure also.</p>
	<p>19) 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.</p>
	<p>20) UPVC pipes shall be provided for under drain system. Filter pipe manifolds shall be assembled with HDPE pipes.</p>
	<p>21) Alum storage capacity shall be designed for minimum period of 90 days.</p>

	Consumables shall be provided for 2115 Running Hours of WTP.
	22) Chlorinator : Vacuum type chlorinator shall be provided with following specifications: a) Vacuum operated solution feeding type Vacuum Regulator, Rotameter, Rate setting Valve, built-in NRV, Gas Overflow out let by man folding to mount the system with the unit. b) The unit shall consist of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacuum relief Valves - for control of chlorinator dosage. c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel 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 accessories, civil and mechanical works, manifold header installations, injector fixing, connection with UPVC pipes, solution piping's, fixing of motors as per standard specifications and commissioning of Chlorination Plant to the required demand, with a defect liability period of 1 year. The chlorinator of may be of any reputed 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.
	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 equipment 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 pump sets with 100% stand by.
	7) Air blower with motor of 100% stand by and pipe connections made with of SS pipes conforming 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 cheque 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.
	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 designators about the variations/ deficiencies in the flow including alerts for back wash requirements of filter beds, and recovery of data for the past 360 days. All the Digital Flow Meters & Pressure Gauges shall be provided of standard approved make. 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 Electrode made with material of SS external Ultra Touch Sensors as per requirement.
	iii) Customized 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 equivalent make.
	iv) Customized Application Requirement: Power Sensors Interface logic control board with support 8 Power Sensing tags, Central System Interfacing Communication, On - board analog to Digit Convert Integrate Circuit of any reputed make or any equivalent make.

	v) Customized Application Requirement: Centralized System with two serial interfaces, 3 No's of Add-On ports, One external DC Power Socket, On - Board Buffer, On - Board Timer, On - Board RS485 Communication, On - Board RS 232 Communication, On - Board GPRS/GSM Module, On - Board Voice Chip, On - Board Power Sensing Module, LCD 16c/2L, Filter Bed Wash Precaution Indication with Stop Button, Memory of Data Storage for 30 Days, Total Bed Rating, Reading display on LCD Display, Menu Driven, Menu Navigate Keypad, sending data to the Web Server, Communication with GPRS , operated with Battery Power of any reputed make or any equivalent make.
	Software:
	The software shall be designed with Web Domain with Data Base Server and Web Name as per the directions of the Departmental Authorities.
	The application of Software for Web design & Desktop shall meet the following requirements:
	i) Onsite Display: Letters with size of 1.5' seven Segment 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 Segment 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 designators 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	Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003,Ex -factory, excluding transportation and all taxes.							
	Size	Unit	SoR For 2020-21					
			Code	NP- 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05615	130				
	100 mm dia.	Meter	MAT-05616	151				
	150 mm dia.	Meter	MAT-05617	180				
	200 mm dia.	Meter	MAT-05618	214				
	225 mm dia.	Meter	MAT-05619	232				
	250 mm dia.	Meter	MAT-05620	245				
	300 mm dia.	Meter	MAT-05621	355	MAT-05636	841	MAT-05651	852
	350 mm dia.	Meter	MAT-05622	441	MAT-05637	998	MAT-05652	1017
	400 mm dia.	Meter	MAT-05623	510	MAT-05638	1099	MAT-05653	1125
	450 mm dia.	Meter	MAT-05624	624	MAT-05639	1264	MAT-05654	1279
	500 mm dia.	Meter	MAT-05625	681	MAT-05640	1364	MAT-05655	1576
	600 mm dia.	Meter	MAT-05626	1013	MAT-05641	2069	MAT-05656	2443
	700 mm dia.	Meter	MAT-05627	1291	MAT-05642	2562	MAT-05657	3273
	800 mm dia.	Meter	MAT-05628	1582	MAT-05643	3386	MAT-05658	4256
	900 mm dia.	Meter	MAT-05629	1999	MAT-05644	4247	MAT-05659	5315
	1000 mm dia.	Meter	MAT-05630	2445	MAT-05645	5195	MAT-05660	7293
	1100 mm dia.	Meter	MAT-05631	2876	MAT-05646	6240	MAT-05661	8444
	1200 mm dia.	Meter	MAT-05632	3429	MAT-05647	7347	MAT-05662	9869
	1400 mm dia.	Meter	MAT-05633	4698	MAT-05648	9457	MAT-05663	13600
	1600 mm dia.	Meter	MAT-05634	5401	MAT-05649	12262	MAT-05664	16156
	1800 mm dia.	Meter	MAT-05635	7116	MAT-05650	16254	MAT-05665	21645

Note : All prices are ex-works.

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

Cost Cement. Rs.4600/- per MT (Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.40000/- per MT. (Excluding 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. 40000/- , S2 = Cost of M S Rods (Rs. per MT Excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs4600/- C2 = Cost of Cement (Rs. per MT Excluding 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	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 all taxes.							
	Size	Unit	SoR For 2020-21					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Each	MAT-05666	41.00				
	100 mm dia.	Each	MAT-05667	41.00				
	150 mm dia.	Each	MAT-05668	42.00				
	200 mm dia.	Each	MAT-05669	59.00				
	225 mm dia.	Each	MAT-05670	63.00				
	250 mm dia.	Each	MAT-05671	69.00				
	300 mm dia.	Each	MAT-05672	90.00	MAT-05687	127.00	MAT-05702	127.00
	350 mm dia.	Each	MAT-05673	112.00	MAT-05688	161.00	MAT-05703	161.00
	400 mm dia.	Each	MAT-05674	124.00	MAT-05689	184.00	MAT-05704	184.00
	450 mm dia.	Each	MAT-05675	195.00	MAT-05690	246.00	MAT-05705	246.00
	500 mm dia.	Each	MAT-05676	220.00	MAT-05691	294.00	MAT-05706	294.00
	600 mm dia.	Each	MAT-05677	301.00	MAT-05692	383.00	MAT-05707	383.00
	700 mm dia.	Each	MAT-05678	390.00	MAT-05693	512.00	MAT-05708	512.00
	800 mm dia.	Each	MAT-05679	549.00	MAT-05694	656.00	MAT-05709	656.00
	900 mm dia.	Each	MAT-05680	658.00	MAT-05695	765.00	MAT-05710	765.00
	1000 mm dia.	Each	MAT-05681	770.00	MAT-05696	954.00	MAT-05711	954.00
	1100 mm dia.	Each	MAT-05682	939.00	MAT-05697	1210.00	MAT-05712	1210.00
	1200 mm dia.	Each	MAT-05683	1139.00	MAT-05698	1514.00	MAT-05713	1514.00
	1400 mm dia.	Each	MAT-05684	1468.00	MAT-05699	1917.00	MAT-05714	1917.00
	1600 mm dia.	Each	MAT-05685	1878.00	MAT-05700	2451.00	MAT-05715	2451.00
	1800 mm dia.	Each	MAT-05686	1896.00	MAT-05701	3152.00	MAT-05716	3152.00

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost. Cement. Rs.4600/- per MT(Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.40000/- per MT.(Excluding 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. 40000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs.4600/-,

C2 = Cost of Cement (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate

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

W_c = 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	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 and all taxes.							
	Size	Unit	SoR For 2020-21					
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class
	80 mm dia.	Meter	MAT-05717	164				
	100 mm dia.	Meter	MAT-05718	186				
	150 mm dia.	Meter	MAT-05719	217				
	200 mm dia.	Meter	MAT-05720	267				
	225 mm dia.	Meter	MAT-05721	289				
	250 mm dia.	Meter	MAT-05722	308				
	300 mm dia.	Meter	MAT-05723	434	MAT-05738	1085	MAT-05753	1146
	350 mm dia.	Meter	MAT-05724	558	MAT-05739	1341	MAT-05754	1363
	400 mm dia.	Meter	MAT-05725	613	MAT-05740	1487	MAT-05755	1510
	450 mm dia.	Meter	MAT-05726	766	MAT-05741	1640	MAT-05756	1650
	500 mm dia.	Meter	MAT-05727	882	MAT-05742	1873	MAT-05757	2033
	600 mm dia.	Meter	MAT-05728	1238	MAT-05743	2627	MAT-05758	2650
	700 mm dia.	Meter	MAT-05729	1603	MAT-05744	3355	MAT-05759	3436
	800 mm dia.	Meter	MAT-05730	2061	MAT-05745	4443	MAT-05760	4468
	900 mm dia.	Meter	MAT-05731	2612	MAT-05746	5580	MAT-05761	5640
	1000 mm dia.	Meter	MAT-05732	3189	MAT-05747	6265	MAT-05762	6470
	1100 mm dia.	Meter	MAT-05733	3709	MAT-05748	7389	MAT-05763	7644
	1200 mm dia.	Meter	MAT-05734	4183	MAT-05749	8722	MAT-05764	8946
	1400 mm dia.	Meter	MAT-05735	6013	MAT-05750	11545	MAT-05765	12682
	1600 mm dia.	Meter	MAT-05736	7441	MAT-05751	14984	MAT-05766	15070
	1800 mm dia.	Meter	MAT-05737	8258	MAT-05752	19869	MAT-05767	20208

Note: All the prices are ex-works. The above rates of RCC S/S Non-Pressure pipes are based on the following raw materials cost.

Cement. Rs.4600/- per MT,(Excluding all taxes and freight).

Steel (M.S. Rods) – Rs.40000/- per MT. (Excluding 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. 40000/- , S2 = Cost of M S Rods (Rs. per MT excluding all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4600/- , C2 = Cost of Cement (Rs. per MT excluding 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	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 and all taxes.							
	Size	Unit	SoR For			2020-21		
			Code	P1 - Class	Code	P2 - Class	Code	P3 - Class
	80 mm dia.	Meter	MAT-05768	220	MAT-05786	246	MAT-05802	281
	100 mm dia.	Meter	MAT-05769	246	MAT-05787	295	MAT-05803	341
	150 mm dia.	Meter	MAT-05770	341	MAT-05788	439	MAT-05804	541
	200 mm dia.	Meter	MAT-05771	395	MAT-05789	568	MAT-05805	748
	225 mm dia.	Meter	MAT-05772	445	MAT-05790	644	MAT-05806	831
	250 mm dia.	Meter	MAT-05773	487	MAT-05791	685	MAT-05807	865
	300 mm dia.	Meter	MAT-05774	653	MAT-05792	982	MAT-05808	1217
	350 mm dia.	Meter	MAT-05775	813	MAT-05793	1373	MAT-05809	1765
	400 mm dia.	Meter	MAT-05776	966	MAT-05794	1825	MAT-05810	2341
	450 mm dia.	Meter	MAT-05777	1020	MAT-05795	2162	MAT-05811	2866
	500 mm dia.	Meter	MAT-05778	1374	MAT-05796	2330	MAT-05812	3242
	600 mm dia.	Meter	MAT-05779	1881	MAT-05797	3479	MAT-05813	4477
	700 mm dia.	Meter	MAT-05780	2512	MAT-05798	4557	MAT-05814	5660
	800 mm dia.	Meter	MAT-05781	3140	MAT-05799	5371	MAT-05815	6812
	900 mm dia.	Meter	MAT-05782	3779	MAT-05800	6286		
	1000 mm dia.	Meter	MAT-05783	4798	MAT-05801	7180		
	1100 mm dia.	Meter	MAT-05784	5766				
	1200 mm dia.	Meter	MAT-05785	6737				

Note: All the prices are ex-works.

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

Cement. Rs.4600/- per MT,(Excluding all taxes and freight).

Steel (M.S. Rods) - Rs.40000/- per MT. (Excluding 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. 40000/-

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

C1 = Rs. 4600/-, C2 = Cost of Cement (Rs. per MT excluding 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	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 all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.								
	Size	Unit	SoR For 2020-21						
			Code	NP - 2 Class	Code	NP - 3 Class	Code	NP - 4 Class	
	80 mm dia.	Each	MAT-05816	26					
	100 mm dia.	Each	MAT-05817	32					
	150 mm dia.	Each	MAT-05818	57					
	200 mm dia.	Each	MAT-05819	67					
	225 mm dia.	Each	MAT-05820	73					
	250 mm dia.	Each	MAT-05821	82					
	300 mm dia.	Each	MAT-05822	100	MAT-05837	129	MAT-05852	129	
	350 mm dia.	Each	MAT-05823	116	MAT-05838	154	MAT-05853	154	
	400 mm dia.	Each	MAT-05824	128	MAT-05839	175	MAT-05854	175	
	450 mm dia.	Each	MAT-05825	145	MAT-05840	198	MAT-05855	198	
	500 mm dia.	Each	MAT-05826	189	MAT-05841	227	MAT-05856	227	
	600 mm dia.	Each	MAT-05827	248	MAT-05842	329	MAT-05857	329	
	700 mm dia.	Each	MAT-05828	248	MAT-05843	394	MAT-05858	394	
	800 mm dia.	Each	MAT-05829	428	MAT-05844	478	MAT-05859	478	
	900 mm dia.	Each	MAT-05830	536	MAT-05845	646	MAT-05860	646	
	1000 mm dia.	Each	MAT-05831	627	MAT-05846	780	MAT-05861	780	
	1100 mm dia.	Each	MAT-05832	754	MAT-05847	999	MAT-05862	999	
	1200 mm dia.	Each	MAT-05833	1208	MAT-05848	1256	MAT-05863	1256	
	1400 mm dia.	Each	MAT-05834	1328	MAT-05849	1382	MAT-05864	1382	
	1600 mm dia.	Each	MAT-05835	1654	MAT-05850	1686	MAT-05865	1686	
	1800 mm dia.	Each	MAT-05836	2060	MAT-05851	2154	MAT-05866	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 all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.							
	Size		Code	P1- Class	Code	P2- Class	Code	P3- Class
	80 mm dia.	Each	MAT-05867	26	MAT-05885	26	MAT-05901	26
	100 mm dia.	Each	MAT-05868	32	MAT-05886	33	MAT-05902	33
	150 mm dia.	Each	MAT-05869	57	MAT-05887	57	MAT-05903	57
	200 mm dia.	Each	MAT-05870	67	MAT-05888	67	MAT-05904	67
	225 mm dia.	Each	MAT-05871	73	MAT-05889	75	MAT-05905	77
	250 mm dia.	Each	MAT-05872	82	MAT-05890	85	MAT-05906	86
	300 mm dia.	Each	MAT-05873	100	MAT-05891	106	MAT-05907	110
	350 mm dia.	Each	MAT-05874	116	MAT-05892	132	MAT-05908	145
	400 mm dia.	Each	MAT-05875	128	MAT-05893	175	MAT-05909	178
	450 mm dia.	Each	MAT-05876	145	MAT-05894	200	MAT-05910	205
	500 mm dia.	Each	MAT-05877	189	MAT-05895	227	MAT-05911	237
	600 mm dia.	Each	MAT-05878	248	MAT-05896	280	MAT-05912	285
	700 mm dia.	Each	MAT-05879	338	MAT-05897	370	MAT-05913	394
	800 mm dia.	Each	MAT-05880	428	MAT-05898	474	MAT-05914	474
	900 mm dia.	Each	MAT-05881	536	MAT-05899	598		
	1000 mm dia.	Each	MAT-05882	627	MAT-05900	722		
	1100 mm dia.	Each	MAT-05883	754				
	1200 mm dia.	Each	MAT-05884	1208				

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

Sl.No.	Description	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per Meter) SoR for 2020-21				
		NP - 2 Class		NP - 3 Class & NP - 4 Class	
	80 mm dia.	3.81	0.17		
	100 mm dia.	5.07	0.17		
	150 mm dia.	7.61	0.32		
	200 mm dia.	10.14	0.32		
	225 mm dia.	11.41	0.51		
	250 mm dia.	12.68	0.51		
	300 mm dia.	17.76	0.68	49.45	1.36
	350 mm dia.	25.36	1.52	53.26	1.52
	400 mm dia.	27.90	1.69	63.40	2.02
	450 mm dia.	36.77	2.02	68.47	2.36
	500 mm dia.	39.31	2.36	74.81	2.36
	600 mm dia.	57.05	3.71	112.84	5.24
	700 mm dia.	72.27	5.24	125.52	6.08
	800 mm dia.	84.95	5.24	150.88	6.08
	900 mm dia.	97.62	5.24	197.79	11.48
	1000 mm dia.	144.54	10.80	238.36	11.48
	1100 mm dia.	158.48	10.80	258.65	12.49
	1200 mm dia.	180.04	11.48	289.08	12.49
	1400 mm dia.	216.81	11.48	393.05	13.00
	1600 mm dia.	251.05	11.48	471.65	13.00
	1800 mm dia.	289.08	11.48	628.87	18.24

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

Sl. No.	Description	Rate up to 5 Kms Lead including Loading, unloading & stacking	Rate for every additional 1 KM lead or part thereof.	Rate up to 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	Conveyance of R.C.C. Socket and Spigot pipes on all-weather roads including loading, unloading and stacking (per Meter of effective length)				
	Size	NP - 2 & P1 Class		NP – 3 & NP - 4 Class	
	80 mm dia.	5.07	0.16		
	100 mm dia.	5.07	0.30		
	150 mm dia.	8.88	0.30		
	200 mm dia.	11.41	0.61		
	225 mm dia.	12.68	0.61		
	250 mm dia.	13.95	1.38		
	300 mm dia.	22.83	1.53	59.98	1.84
	350 mm dia.	26.62	1.69	65.21	2.14
	400 mm dia.	26.62	1.99	80.86	4.00
	450 mm dia.	38.04	2.14	88.68	4.00
	500 mm dia.	41.84	2.31	97.81	4.30
	600 mm dia.	54.52	4.00	131.71	6.13
	700 mm dia.	67.19	4.30	177.35	12.12
	800 mm dia.	92.55	6.59	209.96	12.12
	900 mm dia.	138.20	11.82	242.56	12.12
	1000 mm dia.	157.22	11.82	255.60	12.12
	1100 mm dia.	177.50	12.12	273.86	12.12
	1200 mm dia.	197.79	12.12	306.46	12.42
	1400 mm dia.	245.97	12.12	410.79	12.42
	1600 mm dia.	291.62	12.42	485.13	13.35
	1800 mm dia.	361.34	12.42	646.83	18.26
		P2 – Class		P3 – Class	
	80 mm dia.	5.07	0.16	5.07	0.16
	100 mm dia.	5.07	0.30	5.07	0.30

	150 mm dia.	8.88	0.30	8.88	0.30
	200 mm dia.	11.41	0.61	15.21	1.38
	225 mm dia.	15.21	1.38	17.76	1.53
	250 mm dia.	16.48	1.53	21.55	1.69
	300 mm dia.	31.69	1.84	36.77	1.99
	350 mm dia.	39.31	2.14	50.72	2.31
	400 mm dia.	46.91	2.31	67.19	4.00
	450 mm dia.	59.59	3.84	83.69	4.00
	500 mm dia.	67.19	4.00	101.43	5.99
	600 mm dia.	88.76	4.00	147.07	7.67
	700 mm dia.	133.12	8.13	214.27	12.12
	800 mm dia.	176.24	11.51	273.86	12.12
	900 mm dia.	214.27	12.12		
	1000 mm dia.	263.72	12.42		

8. S o R FOR A.C. PIPES

Sl.No	Description									
1	2									
1	Manufacture, Supply of A.C. Pressure pipes (Mazza process) as per BIS No: 1592/2003as amended from time to time duly marked with BIS mark, including cost of material, incidental handling, loading and packing charges, but exclusive of transportation, unloading, stacking at departmental stores, and excluding all taxes. The pipes shall be tested at factory premises confirming to IS Code 1592/2003.									
	Size	Unit	SoR For 2020-21							
			Code	Class - 15	Code	Class - 20	Code	Class - 25		
	80 mm dia.	Rate/Meter	MAT-05915	196	MAT-05933	214	MAT-05951	268		
	100 mm dia.	Rate/Meter	MAT-05916	258	MAT-05934	328	MAT-05952	403		
	125 mm dia.	Rate/Meter	MAT-05917	337	MAT-05935	420	MAT-05953	526		
	150 mm dia.	Rate/Meter	MAT-05918	474	MAT-05936	589	MAT-05954	741		
	200 mm dia.	Rate/Meter	MAT-05919	786	MAT-05937	1005	MAT-05955	1276		
	250 mm dia.	Rate/Meter	MAT-05920	998	MAT-05938	1292	MAT-05956	1617		
	300 mm dia.	Rate/Meter	MAT-05921	1396	MAT-05939	1815	MAT-05957	2318		
	350 mm dia.	Rate/Meter	MAT-05922	1701	MAT-05940	2210	MAT-05958	2785		
	400 mm dia.	Rate/Meter	MAT-05923	2211	MAT-05941	2890	MAT-05959	3588		
	450 mm dia.	Rate/Meter	MAT-05924	2622	MAT-05942	3479	MAT-05960	4356		
	500 mm dia.	Rate/Meter	MAT-05925	3240	MAT-05943	4255	MAT-05961	5344		
	600 mm dia.	Rate/Meter	MAT-05926	4604	MAT-05944	6011	MAT-05962	7660		
	700 mm dia.	Rate/Meter	MAT-05927	6096	MAT-05945	8268	MAT-05963	10691		
	750 mm dia.	Rate/Meter	MAT-05928	6946	MAT-05946	9544	MAT-05964	12235		
	800 mm dia.	Rate/Meter	MAT-05929	7949	MAT-05947	10814	MAT-05965	13878		
	850 mm dia.	Rate/Meter	MAT-05930	8915	MAT-05948	12167	MAT-05966	15628		
	900 mm dia.	Rate/Meter	MAT-05931	9939	MAT-05949	13590	MAT-05967	17481		
	1000 mm dia.	Rate/Meter	MAT-05932	12270	MAT-05950	16687	MAT-05968	21497		
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 up to 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	LAB-00697	51	LAB-00715	51	LAB-00733	51		
	100 mm dia.	Rate/Meter	LAB-00698	74	LAB-00716	74	LAB-00734	74		

	125 mm dia.	Rate/Meter		LAB-00699	81	LAB-00717	81	LAB-00735	81	
	150 mm dia.	Rate/Meter		LAB-00700	97	LAB-00718	97	LAB-00736	97	
	200 mm dia.	Rate/Meter		LAB-00701	128	LAB-00719	128	LAB-00737	128	
	250 mm dia.	Rate/Meter		LAB-00702	153	LAB-00720	153	LAB-00738	153	
	300 mm dia.	Rate/Meter		LAB-00703	188	LAB-00721	188	LAB-00739	188	
	350 mm dia.	Rate/Meter		LAB-00704	318	LAB-00722	318	LAB-00740	318	
	400 mm dia.	Rate/Meter		LAB-00705	480	LAB-00723	480	LAB-00741	480	
	450 mm dia.	Rate/Meter		LAB-00706	583	LAB-00724	583	LAB-00742	583	
	500 mm dia.	Rate/Meter		LAB-00707	740	LAB-00725	740	LAB-00743	740	
	600 mm dia.	Rate/Meter		LAB-00708	796	LAB-00726	796	LAB-00744	796	
	700 mm dia.	Rate/Meter		LAB-00709	888	LAB-00727	888	LAB-00745	888	
	750 mm dia.	Rate/Meter		LAB-00710	988	LAB-00728	988	LAB-00746	988	
	800 mm dia.	Rate/Meter		LAB-00711	1040	LAB-00729	1040	LAB-00747	1040	
	850 mm dia.	Rate/Meter		LAB-00712	1110	LAB-00730	1110	LAB-00748	1110	
	900 mm dia.	Rate/Meter		LAB-00713	1210	LAB-00731	1210	LAB-00749	1210	
	1000 mm dia.	Rate/Meter		LAB-00714	1246	LAB-00732	1246	LAB-00750	1246	
<p>1. The above rates of AC Pipes are based on the Cement cost of RS 4600/- per MT (Excluding all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 78,500/- per M.T (Excluding all taxes & Freight)</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>									
	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).							5% on the basic cost of corresponding AC Pressure pipes.		

9. S o R FOR A.C. COUPLINGS

Sl. No.	Description									
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 all taxes and testing of joints as per IS Code.									
	Size	Unit	SoR For 2020-21							
			Code	Class - 15	Code	Class - 20	Code	Class - 25		
	80 mm dia.	Rate/Each	MAT-05969	94	MAT-05987	102	MAT-06005	117		
	100 mm dia.	Rate/Each	MAT-05970	123	MAT-05988	132	MAT-06006	158		
	125 mm dia.	Rate/Each	MAT-05971	154	MAT-05989	169	MAT-06007	203		
	150 mm dia.	Rate/Each	MAT-05972	180	MAT-05990	224	MAT-06008	277		
	200 mm dia.	Rate/Each	MAT-05973	330	MAT-05991	360	MAT-06009	458		
	250 mm dia.	Rate/Each	MAT-05974	385	MAT-05992	485	MAT-06010	618		
	300 mm dia.	Rate/Each	MAT-05975	502	MAT-05993	650	MAT-06011	837		
	350 mm dia.	Rate/Each	MAT-05976	652	MAT-05994	841	MAT-06012	1074		
	400 mm dia.	Rate/Each	MAT-05977	1004	MAT-05995	1310	MAT-06013	1680		
	450 mm dia.	Rate/Each	MAT-05978	1201	MAT-05996	1586	MAT-06014	2037		
	500 mm dia.	Rate/Each	MAT-05979	1434	MAT-05997	1919	MAT-06015	2450		
	600 mm dia.	Rate/Each	MAT-05980	1756	MAT-05998	2202	MAT-06016	2815		
	700 mm dia.	Rate/Each	MAT-05981	2322	MAT-05999	3125	MAT-06017	4064		
	750 mm dia.	Rate/Each	MAT-05982	2619	MAT-06000	3581	MAT-06018	4623		
	800 mm dia.	Rate/Each	MAT-05983	2971	MAT-06001	4029	MAT-06019	5214		
	850 mm dia.	Rate/Each	MAT-05984	3311	MAT-06002	4507	MAT-06020	5844		
	900 mm dia.	Rate/Each	MAT-05985	3663	MAT-06003	5010	MAT-06021	6504		
	1000 mm dia.	Rate/Each	MAT-05986	4471	MAT-06004	6091	MAT-06022	7939		

1. The above rates of AC Coupling are based on the Cement cost of RS 4600/- per MT (Excluding all taxes and freight).
2. The above rates of AC Coupling are based on the Fiber cost of Rs 78,500/- per M.T (excluding all taxes & 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.

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

Sl. No.	Description									
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 all taxes. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988									
	Size	Unit	SoR for 2020-21							
				Code	Class - 15	Code	Class - 20	Code	Class - 25	
	80 mm dia.	Each Set		MAT-06023	75	MAT-06041	75	MAT-06059	75	
	100 mm dia.	Each Set		MAT-06024	91	MAT-06042	91	MAT-06060	91	
	125 mm dia.	Each Set		MAT-06025	119	MAT-06043	119	MAT-06061	119	
	150 mm dia.	Each Set		MAT-06026	150	MAT-06044	150	MAT-06062	150	
	200 mm dia.	Each Set		MAT-06027	156	MAT-06045	156	MAT-06063	156	
	250 mm dia.	Each Set		MAT-06028	180	MAT-06046	180	MAT-06064	180	
	300 mm dia.	Each Set		MAT-06029	180	MAT-06047	180	MAT-06065	180	
	350 mm dia.	Each Set		MAT-06030	205	MAT-06048	205	MAT-06066	205	
	400 mm dia.	Each Set		MAT-06031	251	MAT-06049	251	MAT-06067	251	
	450 mm dia.	Each Set		MAT-06032	294	MAT-06050	294	MAT-06068	294	
	500 mm dia.	Each Set		MAT-06033	340	MAT-06051	340	MAT-06069	340	
	600 mm dia.	Each Set		MAT-06034	385	MAT-06052	385	MAT-06070	385	
	700 mm dia.	Each Set		MAT-06035	800	MAT-06053	800	MAT-06071	800	
	750 mm dia.	Each Set		MAT-06036	831	MAT-06054	831	MAT-06072	831	
	800 mm dia.	Each Set		MAT-06037	892	MAT-06055	892	MAT-06073	892	
	850 mm dia.	Each Set		MAT-06038	994	MAT-06056	994	MAT-06074	994	
	900 mm dia.	Each Set		MAT-06039	1045	MAT-06057	1045	MAT-06075	1045	
	1000 mm dia.	Each Set		MAT-06040	1158	MAT-06058	1158	MAT-06076	1158	

11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2020-21

Sl.No.	Description													
1	Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes For the following Field/Site Test Pressures. (The manufacture shall design the pipes as per the IS Code 784-2001)													
	Size	Unit	SoR for 2020-21.											
			Code	6 Kg/cm2	Code	8 Kg/cm2	Code	10 Kg/cm2	Code	12 Kg/cm2	Code	14 Kg/cm2	Code	16 Kg/cm2
	350 MM DIA.	Meter	MAT-06077	3,129	MAT-06096	3,140	MAT-06115	3,152	MAT-06134	3,169	MAT-06153	3,232	MAT-06172	3,345
	400 MM DIA.	Meter	MAT-06078	3,362	MAT-06097	3,387	MAT-06116	3,423	MAT-06135	3,468	MAT-06154	3,532	MAT-06173	3,585
	450 MM DIA.	Meter	MAT-06079	3,574	MAT-06098	3,591	MAT-06117	3,632	MAT-06136	3,702	MAT-06155	3,797	MAT-06174	3,880
	500 MM DIA.	Meter	MAT-06080	3,869	MAT-06099	3,885	MAT-06118	3,917	MAT-06137	3,999	MAT-06156	4,083	MAT-06175	4,203
	600 MM DIA.	Meter	MAT-06081	4,441	MAT-06100	4,473	MAT-06119	4,520	MAT-06138	4,659	MAT-06157	4,808	MAT-06176	4,955
	700 MM DIA.	Meter	MAT-06082	5,207	MAT-06101	5,281	MAT-06120	5,405	MAT-06139	5,559	MAT-06158	5,720	MAT-06177	5,944
	800 MM DIA.	Meter	MAT-06083	6,317	MAT-06102	6,458	MAT-06121	6,608	MAT-06140	6,808	MAT-06159	7,014	MAT-06178	7,339
	900 MM DIA.	Meter	MAT-06084	7,248	MAT-06103	7,434	MAT-06122	7,629	MAT-06141	7,955	MAT-06160	8,208	MAT-06179	8,803
	1000 MM DIA.	Meter	MAT-06085	8,543	MAT-06104	8,787	MAT-06123	9,042	MAT-06142	9,299	MAT-06161	9,612	MAT-06180	10,298
	1100 MM DIA.	Meter	MAT-06086	9,567	MAT-06105	9,847	MAT-06124	10,159	MAT-06143	10,472	MAT-06162	10,801	MAT-06181	11,644
	1200	Meter	MAT-06087	10,752	MAT-06106	11,122	MAT-06125	11,471	MAT-06144	11,721	MAT-06163	12,198	MAT-06182	13,414

	MM DIA.													
	1300 MM DIA.	Meter	MAT-06088	12,185	MAT-06107	12,602	MAT-06126	13,019	MAT-06145	13,439	MAT-06164	14,645	MAT-06183	15,173
	1400 MM DIA.	Meter	MAT-06089	14,104	MAT-06108	14,592	MAT-06127	15,091	MAT-06146	15,916	MAT-06165	16,925	MAT-06184	17,670
	1500 MM DIA.	Meter	MAT-06090	15,925	MAT-06109	16,505	MAT-06128	17,050	MAT-06147	18,508	MAT-06166	19,174	MAT-06185	21,419
	1600 MM DIA.	Meter	MAT-06091	17,906	MAT-06110	18,531	MAT-06129	19,159	MAT-06148	20,904	MAT-06167	21,658	MAT-06186	23,830
	1700 MM DIA.	Meter	MAT-06092	19,213	MAT-06111	19,941	MAT-06130	20,658	MAT-06149	22,495	MAT-06168	24,923	MAT-06187	26,045
	1800 MM DIA.	Meter	MAT-06093	21,245	MAT-06112	22,601	MAT-06131	23,831	MAT-06150	25,841	MAT-06169	26,798	MAT-06188	29,674
	1900 MM DIA.	Meter	MAT-06094	22,675	MAT-06113	23,923	MAT-06132	26,028	MAT-06151	27,521	MAT-06170	29,918	MAT-06189	32,217
	2000 MM DIA.	Meter	MAT-06095	24,926	MAT-06114	26,481	MAT-06133	27,870	MAT-06152	30,410	MAT-06171	33,563	MAT-06190	34,887
2	Cost of lowering, laying jointing, testing to Hydrostatic field test pressure as per IS: 783 including cost of Rubber Rings, cost transportation of water and emptying pipe line after completion of field testing etc., complete. (for a maximum depth of 4 Mtrs below GL)													
	350 MM DIA.	Meter	MAT-06191	265	MAT-06210	265	MAT-06229	265	MAT-06248	265	MAT-06267	265	MAT-06286	265
	400 MM	Meter	MAT-	286	MAT-	286	MAT-	286	MAT-	286	MAT-	286	MAT-	286

	DIA.		06192		06211		06230		06249		06268		06287	
	450 MM DIA.	Meter	MAT-06193	330	MAT-06212	330	MAT-06231	330	MAT-06250	330	MAT-06269	330	MAT-06288	330
	500 MM DIA.	Meter	MAT-06194	351	MAT-06213	351	MAT-06232	351	MAT-06251	351	MAT-06270	351	MAT-06289	351
	600 MM DIA.	Meter	MAT-06195	432	MAT-06214	432	MAT-06233	432	MAT-06252	432	MAT-06271	432	MAT-06290	432
	700 MM DIA.	Meter	MAT-06196	505	MAT-06215	505	MAT-06234	505	MAT-06253	505	MAT-06272	505	MAT-06291	505
	800 MM DIA.	Meter	MAT-06197	572	MAT-06216	572	MAT-06235	572	MAT-06254	572	MAT-06273	572	MAT-06292	572
	900 MM DIA.	Meter	MAT-06198	626	MAT-06217	626	MAT-06236	626	MAT-06255	626	MAT-06274	626	MAT-06293	626
	1000 MM IA	Meter	MAT-06199	723	MAT-06218	723	MAT-06237	723	MAT-06256	723	MAT-06275	723	MAT-06294	723
	1100 MM IA	Meter	MAT-06200	813	MAT-06219	813	MAT-06238	813	MAT-06257	813	MAT-06276	813	MAT-06295	813
	1200 MMDIA.	Meter	MAT-06201	900	MAT-06220	900	MAT-06239	900	MAT-06258	900	MAT-06277	900	MAT-06296	900
	1300 MM DIA.	Meter	MAT-06202	1,021	MAT-06221	1,021	MAT-06240	1,021	MAT-06259	1,021	MAT-06278	1,021	MAT-06297	1,021
	1400 MM DIA.	Meter	MAT-06203	1,155	MAT-06222	1,155	MAT-06241	1,155	MAT-06260	1,155	MAT-06279	1,155	MAT-06298	1,155
	1500 MM DIA.	Meter	MAT-06204	1,253	MAT-06223	1,253	MAT-06242	1,253	MAT-06261	1,253	MAT-06280	1,253	MAT-06299	1,253
	1600 MM DIA.	Meter	MAT-06205	1,404	MAT-06224	1,404	MAT-06243	1,404	MAT-06262	1,404	MAT-06281	1,404	MAT-06300	1,404
	1700	Meter	MAT-	1,528	MAT-	1,528	MAT-	1,528	MAT-	1,528	MAT-	1,528	MAT-	1,528

	MM DIA.		06206		06225		06244		06263		06282		06301	
	1800 MM DIA.	Meter	MAT- 06207	1,616	MAT- 06226	1,616	MAT- 06245	1,616	MAT- 06264	1,616	MAT- 06283	1,616	MAT- 06302	1,616
	1900 MM DIA.	Meter	MAT- 06208	1,706	MAT- 06227	1,706	MAT- 06246	1,706	MAT- 06265	1,706	MAT- 06284	1,706	MAT- 06303	1,706
	2000 MM DIA.	Meter	MAT- 06209	1,798	MAT- 06228	1,798	MAT- 06247	1,798	MAT- 06266	1,798	MAT- 06285	1,798	MAT- 06304	1,798
3	Conveyance of Pre-stressed (Non Cylinder) Concrete Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site)													
	350 MM DIA.	Per K.M/M		1.80		1.80		1.80		1.80		1.80		1.80
	400 MM DIA.	Per K.M/M		1.80		1.80		1.80		1.80		1.80		1.80
	450 MM DIA.	Per K.M/M		2.10		2.10		2.10		2.10		2.10		2.10
	500 MM DIA.	Per K.M/M		2.20		2.20		2.20		2.20		2.20		2.20
	600 MM DIA.	Per K.M/M		2.50		2.50		2.50		2.50		2.50		2.50
	700 MM DIA.	Per K.M/M		4.10		4.10		4.10		4.10		4.10		4.10
	800 MM DIA.	Per K.M/M		4.10		4.10		4.10		4.10		4.10		4.10
	900 MM	Per K.M/M		4.10		4.10		4.10		4.10		4.10		4.10

	DIA.							
	1000 MM DIA.	Per K.M/M	6.60	6.60	6.60	6.60	6.60	6.60
	1100 MM DIA.	Per K.M/M	6.60	6.60	6.60	6.60	6.60	6.60
	1200 MM DIA.	Per K.M/M	12.60	12.60	12.60	12.60	12.60	12.60
	1300 MM DIA.	Per K.M/M	12.80	12.80	12.80	12.80	12.80	12.80
	1400 MM DIA.	Per K.M/M	12.80	12.80	12.80	12.80	12.80	12.80
	1500 MM DIA.	Per K.M/M	12.80	12.80	12.80	12.80	12.80	12.80
	1600 MM DIA.	Per K.M/M	14.30	14.30	14.30	14.30	14.30	14.30
	1700 MM DIA.	Per K.M/M	14.30	14.30	14.30	14.30	14.30	14.30
	1800 MM DIA.	Per K.M/M	14.60	14.60	14.60	14.60	14.60	14.60

	1900 MM DIA.	Per K.M/M		15.30		15.30		15.30		15.30		15.30		15.30
	2000 MM DIA.	Per K.M/M		15.30		15.30		15.30		15.30		15.30		15.30
4	Cost of Machine end pair with 100 mm width MS Barrel on each side of Socket and Spigot for providing MS Specials on PSC Pipelines excluding Cost of MS Barrel / Special including cost and conveyance to site etc., complete. Excluding Taxes.													
	350 MM DIA.	Per Pair	MAT- 06305	11,300	MAT- 06315	11,300	MAT- 06334	11,300	MAT- 06353	11,300	MAT- 06372	11,300	MAT- 06391	11,300
	400 MM DIA.	Per Pair	MAT- 06306	12,900	MAT- 06316	12,900	MAT- 06335	12,900	MAT- 06354	12,900	MAT- 06373	12,900	MAT- 06392	12,900
	450 MM DIA.	Per Pair	MAT- 06307	14,600	MAT- 06317	14,600	MAT- 06336	14,600	MAT- 06355	14,600	MAT- 06374	14,600	MAT- 06393	14,600
	500 MM DIA.	Per Pair	MAT- 06308	16,300	MAT- 06318	16,300	MAT- 06337	16,300	MAT- 06356	16,300	MAT- 06375	16,300	MAT- 06394	16,300
	600 MM DIA.	Per Pair	MAT- 06309	19,400	MAT- 06319	19,400	MAT- 06338	19,400	MAT- 06357	19,400	MAT- 06376	19,400	MAT- 06395	19,400
	700 MM DIA.	Per Pair	MAT- 06310	22,700	MAT- 06320	22,700	MAT- 06339	22,700	MAT- 06358	22,700	MAT- 06377	22,700	MAT- 06396	22,700
	800 MM DIA.	Per Pair	MAT- 06311	26,000	MAT- 06321	26,000	MAT- 06340	26,000	MAT- 06359	26,000	MAT- 06378	26,000	MAT- 06397	26,000
	900 MM DIA.	Per Pair	MAT- 06312	29,500	MAT- 06322	29,500	MAT- 06341	29,500	MAT- 06360	29,500	MAT- 06379	29,500	MAT- 06398	29,500
	1000 MM DIA.	Per Pair	MAT- 06313	31,900	MAT- 06323	31,900	MAT- 06342	31,900	MAT- 06361	31,900	MAT- 06380	31,900	MAT- 06399	31,900
	1100	Per	MAT- 06314	35,300	MAT- 06324	35,300	MAT- 06343	35,300	MAT- 06362	35,300	MAT- 06381	35,300	MAT- 06400	35,300

	MM DIA.	Pair												
	1200 MM DIA.	Per Pair		38,500	MAT-06325	38,500	MAT-06344	38,500	MAT-06363	38,500	MAT-06382	38,500	MAT-06401	38,500
	1300 MM DIA.	Per Pair		41,600	MAT-06326	41,600	MAT-06345	41,600	MAT-06364	41,600	MAT-06383	41,600	MAT-06402	41,600
	1400 MM DIA.	Per Pair		49,500	MAT-06327	49,500	MAT-06346	49,500	MAT-06365	49,500	MAT-06384	49,500	MAT-06403	49,500
	1500 MM DIA.	Per Pair		58,400	MAT-06328	58,400	MAT-06347	58,400	MAT-06366	58,400	MAT-06385	58,400	MAT-06404	58,400
	1600 MM DIA.	Per Pair		65,300	MAT-06329	65,300	MAT-06348	65,300	MAT-06367	65,300	MAT-06386	65,300	MAT-06405	65,300
	1700 MM DIA.	Per Pair		73,500	MAT-06330	73,500	MAT-06349	73,500	MAT-06368	73,500	MAT-06387	73,500	MAT-06406	73,500
	1800 MM DIA.	Per Pair		84,300	MAT-06331	84,300	MAT-06350	84,300	MAT-06369	84,300	MAT-06388	84,300	MAT-06407	84,300
	1900 MM DIA.	Per Pair		97,800	MAT-06332	97,800	MAT-06351	97,800	MAT-06370	97,800	MAT-06389	97,800	MAT-06408	97,800
	2000 MM DIA.	Per Pair		1,14,500	MAT-06333	1,14,500	MAT-06352	1,14,500	MAT-06371	1,14,500	MAT-06390	1,14,500	MAT-06409	1,14,500

5	Cost of MS 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 Special including cost and conveyance to site, excluding Taxes etc., complete. (Rate per each Flange).							
	Diameter and thickness	Unit	Code	Rate	Diameter and thickness	Unit	Code	Rate
	80 mm dia. x 15 mm thick	Each Flange	MAT-06410	810	500mm dia. x 20 mm thick	Each Flange	MAT-06420	8,270
	100 mm dia. x 15 mm thick	Each Flange	MAT-06411	1,110	600 mm dia. x 20 mm thick	Each Flange	MAT-06421	10,410
	125 mm dia. x 15 mm thick	Each Flange	MAT-06412	1,340	700 mm dia. x 25 mm thick	Each Flange	MAT-06422	14,700
	150 mm dia. x 15 mm thick	Each Flange	MAT-06413	1,780	750 mm dia. x 25 mm thick	Each Flange	MAT-06423	16,160
	200 mm dia. x 15 mm thick	Each Flange	MAT-06414	2,230	800 mm dia. x 25 mm thick	Each Flange	MAT-06424	18,100
	250 mm dia. x 15 mm thick	Each Flange	MAT-06415	2,900	900 mm dia. x 25 mm thick	Each Flange	MAT-06425	20,790
	300 mm dia. x 15 mm thick	Each Flange	MAT-06416	3,300	1000 mm dia. x 25 mm thick	Each Flange	MAT-06426	24,500
	350 mm dia. x 18 mm thick	Each Flange	MAT-06417	4,790	1050 mm dia. x 25 mm thick	Each Flange	MAT-06427	26,020
	400 mm dia. x 18 mm thick	Each Flange	MAT-06418	5,980	1100 mm dia. x 25 mm thick	Each Flange	MAT-06428	28,060
	450 mm dia. x 18 mm thick	Each Flange	MAT-06419	6,950	1200 mm dia. x 32 mm thick	Each Flange	MAT-06429	37,170

Note:

a) The above rates are Excluding GST. At present prevailing GST rate is @ 18.00% on supply of PSC pipes. Transportation charges extra.

b) The above rates are considering (A) Landed price of HT Wire at Hyderabad (Basic + Freight) @ Rs.57,000/- per MT (4 mm). (B) Landed price of Cement at Hyderabad (Basic + Freight) @ Rs.5500/- per MT.

c) The above prices are subject to Price Variation clause. Revised rate = (R1 + R2), where R1 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HT Wire which is = $(H2 - H1) / 1000 \times Wh$. R2 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = $(C2 - C1) / 1000 \times Wc$. ***** H1 = Rs.57,000/- per MT (4 mm) / H2 = Cost of HT Wire at the time of preparation of estimate, **C1 = Rs.5,500/- per MT**, C2 = Cost of Cement at the time of preparation of estimate, Wh = Weight of HT wire required (Kg per Mtr) Wc = Weight of Cement required (Kg per Mtr).

d) The above rates for MS Flanges are considering landed price of MS Plates as Rs.48,000/- per MT.

12. S o R FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2020-21

S. No.	Description																			
1	Manufacture, Supply, Delivery of BIS MARKED PRE-STRESSED (CYLINDER TYPE) CONCRETE PIPES as per IS: 784-2001 @ Ex-factory cost of pipes excluding Transportation, Laying, Jointing, Testing, Bends, Tees, Specials, taxes and duties etc., for following Field / Line / Site test pressures:																			
	Size	Unit	SoR For 2020-21																	
			Code	4 Kg/cm2	Code	6 Kg/cm2	Code	8 Kg/cm2	Code	10 Kg/cm2	Code	12 Kg/cm2	Code	14 Kg/cm2	Code	16 Kg/cm2	Code	18 Kg/cm2	Code	20 Kg/cm2
	400 MM DIA.	Meter	MAT-06430	5,600	MAT-06448	5,600	MAT-06466	5,600	MAT-06484	5,600	MAT-06502	5,627	MAT-06520	5,685	MAT-06538	5,782	MAT-06556	5,876	MAT-06574	5,947
	450 MM DIA.	Meter	MAT-06431	6,087	MAT-06449	6,087	MAT-06467	6,087	MAT-06485	6,114	MAT-06503	6,185	MAT-06521	6,270	MAT-06539	6,374	MAT-06557	6,419	MAT-06575	6,475
	500 MM DIA.	Meter	MAT-06432	6,495	MAT-06450	6,495	MAT-06468	6,558	MAT-06486	6,615	MAT-06504	6,671	MAT-06522	6,747	MAT-06540	6,836	MAT-06558	6,904	MAT-06576	6,971
	600 MM DIA.	Meter	MAT-06433	7,458	MAT-06451	7,534	MAT-06469	7,613	MAT-06487	7,701	MAT-06505	7,779	MAT-06523	7,857	MAT-06541	7,990	MAT-06559	8,091	MAT-06577	8,182
	700 MM DIA.	Meter	MAT-06434	8,482	MAT-06452	8,582	MAT-06470	8,694	MAT-06488	8,795	MAT-06506	8,906	MAT-06524	9,007	MAT-06542	9,192	MAT-06560	9,308	MAT-06578	9,451
	800 MM DIA.	Meter	MAT-06435	9,982	MAT-06453	10,105	MAT-06471	10,239	MAT-06489	10,384	MAT-06507	10,519	MAT-06525	10,653	MAT-06543	10,852	MAT-06561	11,041	MAT-06579	11,200
	900 MM DIA.	Meter	MAT-06436	11,358	MAT-06454	11,535	MAT-06472	11,703	MAT-06490	11,881	MAT-06508	12,060	MAT-06526	12,238	MAT-06544	12,703	MAT-06562	12,938	MAT-06580	13,213
	1000 MM DIA.	Meter	MAT-06437	13,625	MAT-06455	13,837	MAT-06473	14,051	MAT-06491	14,273	MAT-06509	14,485	MAT-06527	14,708	MAT-06545	15,321	MAT-06563	15,632	MAT-06581	15,942
	1100 MM DIA.	Meter	MAT-06438	15,145	MAT-06456	15,401	MAT-06474	15,669	MAT-06492	15,926	MAT-06510	16,194	MAT-06528	16,450	MAT-06546	17,202	MAT-06564	17,547	MAT-06582	17,957
	1200 MM DIA.	Meter	MAT-06439	16,845	MAT-06457	17,157	MAT-06475	17,459	MAT-06493	17,771	MAT-06511	18,095	MAT-06529	18,406	MAT-06547	19,298	MAT-06565	19,740	MAT-06583	20,179
	1300 MM DIA.	Meter	MAT-06440	18,837	MAT-06458	19,205	MAT-06476	19,572	MAT-06494	19,941	MAT-06512	20,310	MAT-06530	21,001	MAT-06548	21,755	MAT-06566	22,294	MAT-06584	22,884
	1400 MM	Meter	MAT-06441	21,105	MAT-06459	21,561	MAT-06477	22,026	MAT-06495	22,534	MAT-06513	23,430	MAT-06531	24,026	MAT-06549	24,875	MAT-06567	25,125	MAT-06585	26,135

	DIA.																			
	1500 MM DIA.	Meter	MAT-06442	24,790	MAT-06460	25,348	MAT-06478	25,828	MAT-06496	26,319	MAT-06514	27,281	MAT-06532	27,828	MAT-06550	28,561	MAT-06568	29,671	MAT-06586	30,283
	1600 MM DIA.	Meter	MAT-06443	27,956	MAT-06461	28,708	MAT-06479	29,344	MAT-06497	30,372	MAT-06515	30,999	MAT-06533	31,687	MAT-06551	32,947	MAT-06569	33,639	MAT-06587	34,330
	1700 MM DIA.	Meter	MAT-06444	30,090	MAT-06462	30,913	MAT-06480	31,541	MAT-06498	32,714	MAT-06516	33,418	MAT-06534	34,893	MAT-06552	35,702	MAT-06570	36,492	MAT-06588	37,291
	1800 MM DIA.	Meter	MAT-06445	32,918	MAT-06463	33,831	MAT-06481	35,618	MAT-06499	36,727	MAT-06517	37,811	MAT-06535	39,845	MAT-06553	41,568	MAT-06571	42,453	MAT-06589	43,358
	1900 MM DIA.	Meter	MAT-06446	38,239	MAT-06464	39,029	MAT-06482	40,418	MAT-06500	41,274	MAT-06518	43,022	MAT-06536	44,001	MAT-06554	45,013	MAT-06572	46,005	MAT-06590	46,996
	2000 MM DIA.	Meter	MAT-06447	40,349	MAT-06465	41,798	MAT-06483	42,758	MAT-06501	43,731	MAT-06519	45,680	MAT-06537	46,759	MAT-06555	47,887	MAT-06573	48,984	MAT-06591	50,093
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of site welding and fixing of Polypropylene Diapher cloth, cost transportation of water and emptying pipe line after completion of field testing.																			
	400 MM DIA.	Meter	MAT-06592	546	MAT-06610	546	MAT-06628	546	MAT-06646	546	MAT-06664	546	MAT-06682	546	MAT-06700	546	MAT-06718	546	MAT-06736	546
	450 MM DIA.	Meter	MAT-06593	642	MAT-06611	642	MAT-06629	642	MAT-06647	642	MAT-06665	642	MAT-06683	642	MAT-06701	642	MAT-06719	642	MAT-06737	642
	500 MM DIA.	Meter	MAT-06594	699	MAT-06612	699	MAT-06630	699	MAT-06648	699	MAT-06666	699	MAT-06684	699	MAT-06702	699	MAT-06720	699	MAT-06738	699
	600 MM DIA.	Meter	MAT-06595	818	MAT-06613	818	MAT-06631	818	MAT-06649	818	MAT-06667	818	MAT-06685	818	MAT-06703	818	MAT-06721	818	MAT-06739	818
	700 MM DIA.	Meter	MAT-06596	931	MAT-06614	931	MAT-06632	931	MAT-06650	931	MAT-06668	931	MAT-06686	931	MAT-06704	931	MAT-06722	931	MAT-06740	931
	800 MM DIA.	Meter	MAT-06597	1,070	MAT-06615	1,070	MAT-06633	1,070	MAT-06651	1,070	MAT-06669	1,070	MAT-06687	1,070	MAT-06705	1,070	MAT-06723	1,070	MAT-06741	1,070
	900 MM DIA.	Meter	MAT-06598	1,206	MAT-06616	1,206	MAT-06634	1,206	MAT-06652	1,206	MAT-06670	1,206	MAT-06688	1,206	MAT-06706	1,206	MAT-06724	1,206	MAT-06742	1,206
	1000 MM DIA.	Meter	MAT-06599	1,321	MAT-06617	1,321	MAT-06635	1,321	MAT-06653	1,321	MAT-06671	1,321	MAT-06689	1,321	MAT-06707	1,321	MAT-06725	1,321	MAT-06743	1,321

	1100 MM DIA.	Meter	MAT- 06600	1,498	MAT- 06618	1,498	MAT- 06636	1,498	MAT- 06654	1,498	MAT- 06672	1,498	MAT- 06690	1,498	MAT- 06708	1,498	MAT- 06726	1,498	MAT- 06744	1,498
	1200 MM DIA.	Meter	MAT- 06601	1,634	MAT- 06619	1,634	MAT- 06637	1,634	MAT- 06655	1,634	MAT- 06673	1,634	MAT- 06691	1,634	MAT- 06709	1,634	MAT- 06727	1,634	MAT- 06745	1,634
	1300 MM DIA.	Meter	MAT- 06602	1,749	MAT- 06620	1,749	MAT- 06638	1,749	MAT- 06656	1,749	MAT- 06674	1,749	MAT- 06692	1,749	MAT- 06710	1,749	MAT- 06728	1,749	MAT- 06746	1,749
	1400 MM DIA.	Meter	MAT- 06603	1,925	MAT- 06621	1,925	MAT- 06639	1,925	MAT- 06657	1,925	MAT- 06675	1,925	MAT- 06693	1,925	MAT- 06711	1,925	MAT- 06729	1,925	MAT- 06747	1,925
	1500 MM DIA.	Meter	MAT- 06604	2,137	MAT- 06622	2,137	MAT- 06640	2,137	MAT- 06658	2,137	MAT- 06676	2,137	MAT- 06694	2,137	MAT- 06712	2,137	MAT- 06730	2,137	MAT- 06748	2,137
	1600 MM DIA.	Meter	MAT- 06605	2,313	MAT- 06623	2,313	MAT- 06641	2,313	MAT- 06659	2,313	MAT- 06677	2,313	MAT- 06695	2,313	MAT- 06713	2,313	MAT- 06731	2,313	MAT- 06749	2,313
	1700 MM DIA.	Meter	MAT- 06606	2,605	MAT- 06624	2,605	MAT- 06642	2,605	MAT- 06660	2,605	MAT- 06678	2,605	MAT- 06696	2,605	MAT- 06714	2,605	MAT- 06732	2,605	MAT- 06750	2,605
	1800 MM DIA.	Meter	MAT- 06607	2,762	MAT- 06625	2,762	MAT- 06643	2,762	MAT- 06661	2,762	MAT- 06679	2,762	MAT- 06697	2,762	MAT- 06715	2,762	MAT- 06733	2,762	MAT- 06751	2,762
	1900 MM DIA.	Meter	MAT- 06608	3,012	MAT- 06626	3,012	MAT- 06644	3,012	MAT- 06662	3,012	MAT- 06680	3,012	MAT- 06698	3,012	MAT- 06716	3,012	MAT- 06734	3,012	MAT- 06752	3,012
	2000 MM DIA.	Meter	MAT- 06609	3,207	MAT- 06627	3,207	MAT- 06645	3,207	MAT- 06663	3,207	MAT- 06681	3,207	MAT- 06699	3,207	MAT- 06717	3,207	MAT- 06735	3,207	MAT- 06753	3,207
3	Conveyance of Pre-stressed (Non Cylinder) Concrete Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site).																			
	400 MM DIA.	Per KM/M	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	450 MM DIA.	Per KM/M	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	500 MM DIA.	Per KM/M	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	600 MM DIA.	Per KM/M	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
	700 MM DIA.	Per KM/M	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80

	DIA.										
	800 MM DIA.	Per KM/M	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
	900 MM DIA.	Per KM/M	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
	1000 MM DIA.	Per KM/M	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	1100 MM DIA.	Per KM/M	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	1200 MM DIA.	Per KM/M	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
	1300 MM DIA.	Per KM/M	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
	1400 MM DIA.	Per KM/M	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
	1500 MM DIA.	Per KM/M	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
	1600 MM DIA.	Per KM/M	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
	1700 MM DIA.	Per KM/M	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30
	1800 MM DIA.	Per KM/M	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30
	1900 MM DIA.	Per KM/M	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30
	2000 MM DIA.	Per KM/M	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20

Note:

a) The above rates are Excluding GST. At present prevailing GST rate is @ 18.00% on supply of PCC pipes. Transportation charges extra.

b) The above rates are considering (A) Landed price of HT Wire at Hyderabad (Basic + Freight) @ Rs.57,000/- per MT (4 mm). **(B) Landed price of Cement at Hyderabad (Basic + Freight) @ Rs.5,500/- per MT** and (C) Landed price of HR Plates at Hyderabad (Basic + Freight) @ Rs.47,000/- per MT (1.60 mm) and Rs.46,000/- per MT (2.00 - 4.00 mm).

c) The above prices for PCCP pipes are subject to Price Variation clause. Revised rate = $(R1 + R2 + R3)$, where $R1$ = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HT Wire which is = $(H2 - H1) / 1000 \times Wh$. $R2$ = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HR Plate / COil which is = $(R2 - R1) / 1000 \times Wr$. $R3$ = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = $(C2 - C1) / 1000 \times Wc$. ***** $H1$ = Rs.57,000/- per MT (4 mm) / $H2$ = Cost of HT Wire at the time of preparation of estimate, $R1$ = Rs.47,000/- per MT (1.60 mm) & Rs.46,000/- per MT (2.00 - 4.00 mm) / $R2$ = Cost of HR Coils / Plates at the time of preparation of estimate, **$C1$ = Rs.5,500/- per MT**, $C2$ = Cost of Cement at the time of preparation of estimate, Wh = Weight of HT wire required (Kg per Mtr), Wr = Weight of HR Plate / Coils required (Kg per Mtr) & Wc = Weight of Cement required (Kg per Mtr).

13. S o R FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2020-21

Sl.No.	Description																					
1	BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES (BIS MARKED) AS PER IS: 15155-2002 @ Ex-factory cost of pipes including Bends as per IS:7322 excluding Transportation, Laying, Jointing, Testing, Tees, Specials, taxes and duties etc., for following Field / Line / Site test pressures of Bar Wrapped Steel Cylindrical Pipes:																					
	Size	Unit	Code	4-12 Kg/c m ²	Code	14 Kg/cm ²	Code	16 Kg/cm ²	Code	18 Kg/cm ²	Code	20 Kg/cm ²	Code	22 Kg/cm ²	Code	24 Kg/cm ²	Code	26 Kg/cm ²	Code	28 Kg/cm ²	Code	30 Kg/cm ²
	250 MM DIA.	Meter	MAT-06754	2,754	MAT-06767	2,754	MAT-06780	2,754	MAT-06793	2,754	MAT-06806	2,754	MAT-06819	2,754	MAT-06832	3,051	MAT-06845	3,150	MAT-06858	3,187	MAT-06871	3,346
	300 MM DIA.	Meter	MAT-06755	3,069	MAT-06768	3,069	MAT-06781	3,069	MAT-06794	3,069	MAT-06807	3,069	MAT-06820	3,217	MAT-06833	3,646	MAT-06846	3,784	MAT-06859	3,863	MAT-06872	4,061
	350 MM DIA.	Meter	MAT-06756	3,730	MAT-06769	3,730	MAT-06782	3,730	MAT-06795	3,792	MAT-06808	3,976	MAT-06821	4,175	MAT-06834	4,360	MAT-06847	4,544	MAT-06860	4,742	MAT-06873	4,931
	400 MM DIA.	Meter	MAT-06757	4,109	MAT-06770	4,109	MAT-06783	4,195	MAT-06796	4,444	MAT-06809	4,677	MAT-06822	4,922	MAT-06835	5,156	MAT-06848	5,402	MAT-06861	5,642	MAT-06874	5,866
	450 MM DIA.	Meter	MAT-06758	4,597	MAT-06771	4,633	MAT-06784	4,953	MAT-06797	5,247	MAT-06810	5,567	MAT-06823	5,808	MAT-06836	6,092	MAT-06849	6,328	MAT-06862	6,593	MAT-06875	7,112
	500 MM DIA.	Meter	MAT-06759	4,983	MAT-06772	5,329	MAT-06785	5,698	MAT-06798	6,091	MAT-06811	6,438	MAT-06824	6,840	MAT-06837	7,184	MAT-06850	7,483	MAT-06863	7,977	MAT-06876	8,469
	600 MM DIA.	Meter	MAT-06760	6,167	MAT-06773	6,599	MAT-06786	7,141	MAT-06799	7,657	MAT-06812	8,210	MAT-06825	8,774	MAT-06838	9,396	MAT-06851	10,031	MAT-06864	10,638	MAT-06877	11,152
	700 MM DIA.	Meter	MAT-06761	7,491	MAT-06774	8,257	MAT-06787	8,959	MAT-06800	9,684	MAT-06813	10,497	MAT-06826	11,286	MAT-06839	12,024	MAT-06852	13,106	MAT-06865	13,784	MAT-06878	14,403
	800 MM DIA.	Meter	MAT-06762	8,987	MAT-06775	10,031	MAT-06788	10,953	MAT-06801	11,936	MAT-06814	13,071	MAT-06827	14,035	MAT-06840	15,280	MAT-06853	16,224	MAT-06866	17,146	MAT-06879	18,151
	900 MM DIA.	Meter	MAT-06763	10,868	MAT-06776	12,086	MAT-06789	13,229	MAT-06802	14,482	MAT-06815	15,724	MAT-06828	17,233	MAT-06841	18,436	MAT-06854	19,691	MAT-06867	21,115	MAT-06880	22,570
	1000 MM DIA.	Meter	MAT-06764	12,843	MAT-	14,364	MAT-06790	16,017	MAT-06803	17,540	MAT-06816	18,971	MAT-06829	20,409	MAT-06842	21,923	MAT-06855	23,633	MAT-	25,703	MAT-06881	27,126

																			Public Health Items			
				06777														06868				
	1100 MM DIA.	Meter	MAT-06765	16,916	MAT-06778	17,285	MAT-06791	18,980	MAT-06804	20,870	MAT-06817	22,700	MAT-06830	24,492	MAT-06843	26,796	MAT-06856	28,390	MAT-06869	30,596	MAT-06882	32,565
	1200 MM DIA.	Meter	MAT-06766	18,455	MAT-06779	19,743	MAT-06792	21,794	MAT-06805	23,939	MAT-06818	26,110	MAT-06831	28,320	MAT-06844	30,987	MAT-06857	33,599	MAT-06870	35,992	MAT-06883	38,000
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of site welding and fixing of Polypropylene Diapher cloth, cost transportation of water and emptying pipe line after completion of field testing.																					
	250 MM DIA.	Meter	MAT-06884	372	MAT-06897	372	MAT-06910	372	MAT-06923	372	MAT-06936	372	MAT-06949	372	MAT-06962	372	MAT-06975	372	MAT-06988	372	MAT-07001	372
	300 MM DIA.	Meter	MAT-06885	438	MAT-06898	438	MAT-06911	438	MAT-06924	438	MAT-06937	438	MAT-06950	438	MAT-06963	438	MAT-06976	438	MAT-06989	438	MAT-07002	438
	350 MM DIA.	Meter	MAT-06886	517	MAT-06899	517	MAT-06912	517	MAT-06925	517	MAT-06938	517	MAT-06951	517	MAT-06964	517	MAT-06977	517	MAT-06990	517	MAT-07003	517
	400 MM DIA.	Meter	MAT-06887	579	MAT-06900	579	MAT-06913	579	MAT-06926	579	MAT-06939	579	MAT-06952	579	MAT-06965	579	MAT-06978	579	MAT-06991	579	MAT-07004	579
	450 MM DIA.	Meter	MAT-06888	579	MAT-06901	579	MAT-06914	579	MAT-06927	579	MAT-06940	579	MAT-06953	579	MAT-06966	579	MAT-06979	579	MAT-06992	579	MAT-07005	579
	500 MM DIA.	Meter	MAT-06889	725	MAT-06902	725	MAT-06915	725	MAT-06928	725	MAT-06941	725	MAT-06954	725	MAT-06967	725	MAT-06980	725	MAT-06993	725	MAT-07006	725
	600 MM DIA.	Meter	MAT-06890	891	MAT-06903	891	MAT-06916	891	MAT-06929	891	MAT-06942	891	MAT-06955	891	MAT-06968	891	MAT-06981	891	MAT-06994	891	MAT-07007	891
	700 MM DIA.	Meter	MAT-06891	1,038	MAT-06904	1,038	MAT-06917	1,038	MAT-06930	1,038	MAT-06943	1,038	MAT-06956	1,038	MAT-06969	1,038	MAT-06982	1,038	MAT-06995	1,038	MAT-07008	1,038
	800 MM DIA.	Meter	MAT-06892	1,181	MAT-06905	1,181	MAT-06918	1,181	MAT-06931	1,181	MAT-06944	1,181	MAT-06957	1,181	MAT-06970	1,181	MAT-06983	1,181	MAT-06996	1,181	MAT-07009	1,181
	900 MM DIA.	Meter	MAT-06893	1,388	MAT-06906	1,388	MAT-06919	1,388	MAT-06932	1,388	MAT-06945	1,388	MAT-06958	1,388	MAT-06971	1,388	MAT-06984	1,388	MAT-06997	1,388	MAT-07010	1,388

Public Health Items																						
										5					1				7			
	1000 MM DIA.	Meter	MAT-06894	1,534	MAT - 06907	1,534	MAT-06920	1,534	MAT - 06933	1,534	MAT - 06946	1,534	MAT-06959	1,534	MAT - 06972	1,534	MAT-06985	1,534	MAT - 06998	1,534	MAT-07011	1,534
	1100 MM DIA.	Meter	MAT-06895	1,803	MAT - 06908	1,803	MAT-06921	1,803	MAT - 06934	1,803	MAT - 06947	1,803	MAT-06960	1,803	MAT - 06973	1,803	MAT-06986	1,803	MAT - 06999	1,803	MAT-07012	1,803
	1200 MM DIA.	Meter	MAT-06896	2,018	MAT - 06909	2,018	MAT-06922	2,018	MAT - 06935	2,018	MAT - 06948	2,018	MAT-06961	2,018	MAT - 06974	2,018	MAT-06987	2,018	MAT - 07000	2,018	MAT-07013	2,018
3	Conveyance of Bar Wrapped steel Cylindrical (BWSC) pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes: (Minimum distance of 100 Kms to be considered, if the distance is less by 100 Kms from Factory to Site)																					
	250 MM DIA.	Per KM/M	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	
	300 MM DIA.	Per KM/M	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	
	350 MM DIA.	Per KM/M	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
	400 MM DIA.	Per KM/M	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	
	450 MM DIA.	Per KM/M	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	
	500 MM DIA.	Per KM/M	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	
	600 MM DIA.	Per KM/M	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	
	700 MM DIA.	Per KM/M	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	
	800 MM DIA.	Per KM/M	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	
	900 MM DIA.	Per KM/M	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	
	1000 MM DIA.	Per KM/M	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	
	1100 MM DIA.	Per KM/M	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	
	1200 MM DIA.	Per KM/M	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	12.73	

Note:

a) The above rates are Excluding GST. At present prevailing GST rate is @ 18.00% on supply of BWSC pipes. Transportation charges extra.

b) The above rates are considering (A) Landed price of HR Plates at Hyderabad (Basic + Freight) @ Rs.47,000/- per MT (1.60 mm) & Rs.46,000/- per MT (2.00-4.00 mm). (B) **Landed price of Cement at Hyderabad (Basic + Freight) @ Rs.5,500/- per MT** and (C) Landed price of MS Wire Rods at Hyderabad (Basic + Freight) @ Rs.42,000/- per MT. All above rates of raw materials are excluding GST.

c) The above prices for BWSC pipes are subject to Price Variation clause. Revised rate = (R1 + R2 + R3), where R1 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of HR Plate / Coil which is = $(H2 - H1) / 1000 \times Wh$. R2 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Wire Rods which is = $(W2 - W1) / 1000 \times Ww$. R3 = Variation (increase / decrease) in cost (Rs.per Mtr) due to change in the cost of Cement which is = $(C2 - C1) / 1000 \times Wc$. ***** H1 = Rs.47,000/- per MT (1.60 mm) & Rs.46,000/- per MT (2.00 -4.00 mm) / H2 = Cost of HR Plate / Coil at the time of preparation of estimate, W1 = Rs.42,000/- per MT / W2 = Cost of Wire Rods at the time of preparation of estimate, **C1 = Rs.5,500/- per MT**, C2 = Cost of Cement at the time of preparation of estimate, Wh = Weight of HR Plate / Coil required (Kg per Mtr), Ww = Weight of Wire Rods required (Kg per Mtr) & Wc = Weight of Cement required (Kg per Mtr).

d) The duties and taxes as applicable may be added as per rules at the time of preparation of estimates.

14. S o R FOR M.S. PIPES FOR THE YEAR 2020-21

Sl.No.	Description	Unit	Thicknes s in mm	Code	Rate
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 short crating or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labor charges, transportation to anywhere in AP, but excluding all taxes.				
	500 mm dia.	Meter	8.00	MAT-07014	8485.00
	600 mm dia.	Meter	8.00	MAT-07015	10091.00
	700 mm dia.	Meter	8.00	MAT-07016	11775.00
	700 mm dia.	Meter	10.00	MAT-07017	14483.00
	800 mm dia.	Meter	8.00	MAT-07018	13518.00
	800 mm dia.	Meter	10.00	MAT-07019	15444.00
	800 mm dia.	Meter	12.00	MAT-07020	18161.00
	900 mm dia.	Meter	8.00	MAT-07021	15095.00
	900 mm dia.	Meter	10.00	MAT-07022	17259.00
	900 mm dia.	Meter	12.00	MAT-07023	19427.00
	1000 mm dia.	Meter	8.00	MAT-07024	16949.00
	1000 mm dia.	Meter	10.00	MAT-07025	19344.00
	1000 mm dia.	Meter	12.00	MAT-07026	21656.00
	1000 mm dia.	Meter	14.00	MAT-07027	24881.00
	1100 mm dia.	Meter	8.00	MAT-07028	19529.00
	1100 mm dia.	Meter	10.00	MAT-07029	22642.00
	1100 mm dia.	Meter	12.00	MAT-07030	25279.00
	1100 mm dia.	Meter	14.00	MAT-07031	29069.00
	1100 mm dia.	Meter	16.00	MAT-07032	32873.00
	1200 mm dia.	Meter	8.00	MAT-07033	21828.00
	1200 mm dia.	Meter	10.00	MAT-07034	25474.00

	1200 mm dia.	Meter	12.00	MAT-07035	28369.00
	1200 mm dia.	Meter	14.00	MAT-07036	31260.00
	1200 mm dia.	Meter	16.00	MAT-07037	35339.00
	1200 mm dia.	Meter	18.00	MAT-07038	39429.00
	1300 mm dia.	Meter	8.00	MAT-07039	24163.00
	1300 mm dia.	Meter	10.00	MAT-07040	27487.00
	1300 mm dia.	Meter	12.00	MAT-07041	30913.00
	1300 mm dia.	Meter	14.00	MAT-07042	34034.00
	1300 MM DIA.	Meter	16.00	MAT-07043	37168.00
	1300 MM DIA.	Meter	18.00	MAT-07044	41456.00
	1300 MM DIA.	Meter	20.00	MAT-07045	45757.00
	1400 MM DIA.	Meter	8.00	MAT-07046	25957.00
	1400 MM DIA.	Meter	10.00	MAT-07047	29525.00
	1400 MM DIA.	Meter	12.00	MAT-07048	32958.00
	1400 MM DIA.	Meter	14.00	MAT-07049	36319.00
	1400 MM DIA.	Meter	16.00	MAT-07050	39686.00
	1400 MM DIA.	Meter	18.00	MAT-07051	44257.00
	1400 MM DIA.	Meter	20.00	MAT-07052	48838.00
	1400 MM DIA.	Meter	22.00	MAT-07053	53432.00
	1500 MM DIA.	Meter	8.00	MAT-07054	27762.00
	1500 MM DIA.	Meter	10.00	MAT-07055	31580.00
	1500 MM DIA.	Meter	12.00	MAT-07056	35283.00
	1500 MM DIA.	Meter	14.00	MAT-07057	38875.00
	1500 MM DIA.	Meter	16.00	MAT-07058	42481.00
	1500 MM DIA.	Meter	18.00	MAT-07059	46088.00
	1500 MM DIA.	Meter	20.00	MAT-07060	50844.00
	1500 MM DIA.	Meter	22.00	MAT-07061	55612.00
	1500 MM DIA.	Meter	24.00	MAT-07062	60392.00
	1600 MM DIA.	Meter	8.00	MAT-07063	29605.00
	1600 MM DIA.	Meter	10.00	MAT-07064	33509.00
	1600 MM DIA.	Meter	12.00	MAT-07065	37328.00
	1600 MM DIA.	Meter	14.00	MAT-07066	41158.00

	1600 MM DIA.	Meter	16.00	MAT-07067	44996.00
	1600 MM DIA.	Meter	18.00	MAT-07068	48843.00
	1600 MM DIA.	Meter	20.00	MAT-07069	53875.00
	1600 MM DIA.	Meter	22.00	MAT-07070	58921.00
	1600 MM DIA.	Meter	24.00	MAT-07071	63977.00
	1600 MM DIA.	Meter	26.00	MAT-07072	69044.00
	1700 MM DIA.	Meter	8.00	MAT-07073	31326.00
	1700 MM DIA.	Meter	10.00	MAT-07074	35595.00
	1700 MM DIA.	Meter	12.00	MAT-07075	39649.00
	1700 MM DIA.	Meter	14.00	MAT-07076	43716.00
	1700 MM DIA.	Meter	16.00	MAT-07077	47786.00
	1700 MM DIA.	Meter	18.00	MAT-07078	51870.00
	1700 MM DIA.	Meter	20.00	MAT-07079	57210.00
	1700 MM DIA.	Meter	22.00	MAT-07080	62567.00
	1700 MM DIA.	Meter	24.00	MAT-07081	67928.00
	1700 MM DIA.	Meter	26.00	MAT-07082	73310.00
	1700 MM DIA.	Meter	28.00	MAT-07083	78698.00
	1800 MM DIA.	Meter	8.00	MAT-07084	33195.00
	1800 MM DIA.	Meter	10.00	MAT-07085	37682.00
	1800 MM DIA.	Meter	12.00	MAT-07086	41972.00
	1800 MM DIA.	Meter	14.00	MAT-07087	46276.00
	1800 MM DIA.	Meter	16.00	MAT-07088	50579.00
	1800 MM DIA.	Meter	18.00	MAT-07089	54901.00
	1800 MM DIA.	Meter	20.00	MAT-07090	59228.00
	1800 MM DIA.	Meter	22.00	MAT-07091	64755.00
	1800 MM DIA.	Meter	24.00	MAT-07092	70296.00
	1800 MM DIA.	Meter	26.00	MAT-07093	75845.00
	1800 MM DIA.	Meter	28.00	MAT-07094	81409.00
	1800 MM DIA.	Meter	30.00	MAT-07095	86982.00
	1900 MM DIA.	Meter	8.00	MAT-07096	33946.00
	1900 MM DIA.	Meter	10.00	MAT-07097	39493.00
	1900 MM DIA.	Meter	12.00	MAT-07098	44015.00
	1900 MM DIA.	Meter	14.00	MAT-07099	48551.00

	1900 MM DIA.	Meter	16.00	MAT-07100	53095.00
	1900 MM DIA.	Meter	18.00	MAT-07101	57653.00
	1900 MM DIA.	Meter	20.00	MAT-07102	62212.00
	1900 MM DIA.	Meter	22.00	MAT-07103	68012.00
	1900 MM DIA.	Meter	24.00	MAT-07104	73824.00
	1900 MM DIA.	Meter	26.00	MAT-07105	79650.00
	1900 MM DIA.	Meter	28.00	MAT-07106	85485.00
	1900 MM DIA.	Meter	30.00	MAT-07107	91335.00
	1900 MM DIA.	Meter	32.00	MAT-07108	97192.00
	2000 MM DIA.	Meter	8.00	MAT-07109	35512.00
	2000 MM DIA.	Meter	10.00	MAT-07110	41307.00
	2000 MM DIA.	Meter	12.00	MAT-07111	46064.00
	2000 MM DIA.	Meter	14.00	MAT-07112	50836.00
	2000 MM DIA.	Meter	16.00	MAT-07113	55616.00
	2000 MM DIA.	Meter	18.00	MAT-07114	60407.00
	2000 MM DIA.	Meter	20.00	MAT-07115	65200.00
	2000 MM DIA.	Meter	22.00	MAT-07116	69967.00
	2000 MM DIA.	Meter	24.00	MAT-07117	75932.00
	2000 MM DIA.	Meter	26.00	MAT-07118	81907.00
	2000 MM DIA.	Meter	28.00	MAT-07119	87897.00
	2000 MM DIA.	Meter	30.00	MAT-07120	93894.00
	2000 MM DIA.	Meter	32.00	MAT-07121	99905.00
	2000 MM DIA.	Meter	34.00	MAT-07122	105926.00
	2100 MM DIA.	Meter	8.00	MAT-07123	37307.00
	2100 MM DIA.	Meter	10.00	MAT-07124	43392.00
	2100 MM DIA.	Meter	12.00	MAT-07125	48387.00
	2100 MM DIA.	Meter	14.00	MAT-07126	53379.00
	2100 MM DIA.	Meter	16.00	MAT-07127	58406.00
	2100 MM DIA.	Meter	18.00	MAT-07128	63430.00
	2100 MM DIA.	Meter	20.00	MAT-07129	68463.00
	2100 MM DIA.	Meter	22.00	MAT-07130	73509.00
	2100 MM DIA.	Meter	24.00	MAT-07131	79774.00
	2100 MM DIA.	Meter	26.00	MAT-07132	86049.00
	2100 MM DIA.	Meter	28.00	MAT-07133	92336.00

	2100 MM DIA.	Meter	30.00	MAT-07134	98634.00
	2100 MM DIA.	Meter	32.00	MAT-07135	104945.00
	2100 MM DIA.	Meter	34.00	MAT-07136	111267.00
	2100 MM DIA.	Meter	36.00	MAT-07137	117597.00
	2200 MM DIA.	Meter	8.00	MAT-07138	38870.00
	2200 MM DIA.	Meter	10.00	MAT-07139	45204.00
	2200 MM DIA.	Meter	12.00	MAT-07140	50438.00
	2200 MM DIA.	Meter	14.00	MAT-07141	55674.00
	2200 MM DIA.	Meter	16.00	MAT-07142	60926.00
	2200 MM DIA.	Meter	18.00	MAT-07143	66181.00
	2200 MM DIA.	Meter	20.00	MAT-07144	71452.00
	2200 MM DIA.	Meter	22.00	MAT-07145	76734.00
	2200 MM DIA.	Meter	26.00	MAT-07146	89813.00
	2200 MM DIA.	Meter	28.00	MAT-07147	96369.00
	2200 MM DIA.	Meter	30.00	MAT-07148	102934.00
	2200 MM DIA.	Meter	32.00	MAT-07149	109514.00
	2200 MM DIA.	Meter	34.00	MAT-07150	116107.00
	2200 MM DIA.	Meter	36.00	MAT-07151	122708.00
	2200 MM DIA.	Meter	38.00	MAT-07152	129323.00
	2300 MM DIA.	Meter	10.00	MAT-07153	42951.00
	2300 MM DIA.	Meter	12.00	MAT-07154	52756.00
	2300 MM DIA.	Meter	16.00	MAT-07155	62541.00
	2300 MM DIA.	Meter	18.00	MAT-07156	69209.00
	2300 MM DIA.	Meter	20.00	MAT-07157	74716.00
	2300 MM DIA.	Meter	22.00	MAT-07158	80226.00
	2300 MM DIA.	Meter	26.00	MAT-07159	91378.00
	2300 MM DIA.	Meter	28.00	MAT-07160	98493.00
	2300 MM DIA.	Meter	30.00	MAT-07161	105665.00
	2300 MM DIA.	Meter	32.00	MAT-07162	113677.00
	2300 MM DIA.	Meter	34.00	MAT-07163	119919.00
	2300 MM DIA.	Meter	36.00	MAT-07164	127094.00
	2300 MM DIA.	Meter	38.00	MAT-07165	134324.00
	2300 MM DIA.	Meter	40.00	MAT-07166	141509.00

	2400MM DIA.	Meter	10.00	MAT-07167	49101.00
	2400 MM DIA.	Meter	12.00	MAT-07168	54803.00
	2400 MM DIA.	Meter	14.00	MAT-07169	61444.00
	2400 MM DIA.	Meter	16.00	MAT-07170	67168.00
	2400 MM DIA.	Meter	18.00	MAT-07171	72893.00
	2400 MM DIA.	Meter	20.00	MAT-07172	78639.00
	2400 MM DIA.	Meter	22.00	MAT-07173	85232.00
	2400 MM DIA.	Meter	26.00	MAT-07174	91270.00
	2400 MM DIA.	Meter	28.00	MAT-07175	97414.00
	2400 MM DIA.	Meter	30.00	MAT-07176	103570.00
	2400 MM DIA.	Meter	32.00	MAT-07177	109734.00
	2400 MM DIA.	Meter	34.00	MAT-07178	115906.00
	2400 MM DIA.	Meter	36.00	MAT-07179	122094.00
	2400 MM DIA.	Meter	38.00	MAT-07180	128287.00
	2400 MM DIA.	Meter	40.00	MAT-07181	128226.00
	2400 MM DIA.	Meter	42.00	MAT-07182	134434.00
	2500 MM DIA.	Meter	10.00	MAT-07183	51189.00
	2500 MM DIA.	Meter	14.00	MAT-07184	63071.00
	2500 MM DIA.	Meter	16.00	MAT-07185	69026.00
	2500 MM DIA.	Meter	18.00	MAT-07186	74993.00
	2500 MM DIA.	Meter	20.00	MAT-07187	80966.00
	2500 MM DIA.	Meter	22.00	MAT-07188	86952.00
	2500 MM DIA.	Meter	28.00	MAT-07189	109161.00
	2500 MM DIA.	Meter	30.00	MAT-07190	116590.00
	2500 MM DIA.	Meter	34.00	MAT-07191	127276.00
	2500 MM DIA.	Meter	36.00	MAT-07192	135274.00
	2500 MM DIA.	Meter	38.00	MAT-07193	143327.00
	2500 MM DIA.	Meter	40.00	MAT-07194	151391.00
	2500 MM DIA.	Meter	42.00	MAT-07195	159500.00
	2500 MM DIA.	Meter	44.00	MAT-07196	167557.00
	2500 MM DIA.	Meter	46.00	MAT-07197	175670.00
	2600 MM DIA.	Meter	12.00	MAT-07198	53643.00
	2600 MM DIA.	Meter	14.00	MAT-07199	65354.00
	2600 MM DIA.	Meter	16.00	MAT-07200	71547.00

	2600 MM DIA.	Meter	18.00	MAT-07201	77747.00
	2600 MM DIA.	Meter	20.00	MAT-07202	83958.00
	2600 MM DIA.	Meter	22.00	MAT-07203	90175.00
	2600 MM DIA.	Meter	32.00	MAT-07204	128600.00
	2600 MM DIA.	Meter	34.00	MAT-07205	136322.00
	2600 MM DIA.	Meter	36.00	MAT-07206	144050.00
	2600 MM DIA.	Meter	38.00	MAT-07207	151793.00
	2600 MM DIA.	Meter	40.00	MAT-07208	159547.00
	2600 MM DIA.	Meter	42.00	MAT-07209	167313.00
	2600 MM DIA.	Meter	44.00	MAT-07210	175091.00
	2600 MM DIA.	Meter	46.00	MAT-07211	182877.00
	2600 MM DIA.	Meter	48.00	MAT-07212	190679.00
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		MAT-07213	682
	500 MM DIA.	Meter		MAT-07214	849
	600 MM DIA.	Meter		MAT-07215	1044
	700 MM DIA.	Meter		MAT-07216	1212
	800 MM DIA.	Meter		MAT-07217	1383
	900 MM DIA.	Meter		MAT-07218	1626
	1000 MM DIA.	Meter		MAT-07219	1795
	1100 MM DIA.	Meter		MAT-07220	2112
	1200 MM DIA.	Meter		MAT-07221	2366
	1300 MM DIA.	Meter		MAT-07222	2719
	1400 MM DIA.	Meter		MAT-07223	3130
	1500 MM DIA.	Meter		MAT-07224	3540
	1600 MM DIA.	Meter		MAT-07225	3731
	1700 MM DIA.	Meter		MAT-07226	3946
	1800 MM DIA.	Meter		MAT-07227	4463
	1900 MM DIA.	Meter		MAT-07228	5201
	2000 MM DIA.	Meter		MAT-07229	6531
	2100 MM DIA.	Meter		MAT-07230	7472
	2200 MM DIA.	Meter		MAT-07231	8393
	2300 MM DIA.	Meter		MAT-07232	10239
	2400 MM DIA.	Meter		MAT-07233	12521

	2500 MM DIA.	Meter		MAT-07234	14542
	2600 MM DIA.	Meter		MAT-07235	16370

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

MS Plates = Rs.40,000/- Per MT.(Excluding all taxes and 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 of the pipe as per the above table +R₁

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

M₁ = Rs 40,000/-

M₂ = Cost of MS Plates at the time of preparation of estimate excluding all taxes and freight

W_m = Weight of MS Plates in Kg's per meter of pipe

15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2020-21. (PE - 80 Grade)

Sl.No	Description	4.0 kg/sqcm	
1	Manufacture, Supply, & Delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm dia. in coil & above 90 mm dia. straight Length)		
		Code	Rate per Meter
	OD 40 mm	MAT-07236	32
	OD 50 mm	MAT-07237	45
	OD 63 mm	MAT-07238	61
	OD 75 mm	MAT-07239	84
	OD 90 mm	MAT-07240	120
	OD 110 mm	MAT-07241	180
	OD 125 mm	MAT-07242	231
	OD 140 mm	MAT-07243	288
	OD 160 mm	MAT-07244	376
	OD 180 mm	MAT-07245	475
	OD 200 mm	MAT-07246	580
	OD 225 mm	MAT-07247	735
	OD 250 mm	MAT-07248	911
	OD 280 mm	MAT-07249	1135
	OD 315 mm	MAT-07250	1443
	OD 355 mm	MAT-07251	1893
	OD 400 mm	MAT-07252	2453
	OD 450 mm	MAT-07253	3117
	OD 500 mm	MAT-07254	3831
	OD 560 mm	MAT-07255	4729
	OD 630 mm	MAT-07256	5982
	OD 710 mm	MAT-07257	7601
	OD 800 mm	MAT-07258	9620
	OD 900 mm	MAT-07259	12189
	OD 1000 mm	MAT-07260	15012

Note: - Reliance Industries Resin cost adopted for the above rates are

For PE - 80 grade Rs.76,116/- per MT. (Excluding all taxes).

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.

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

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

P2 = Revised pipe price in Rs. per Meter (Excluding all taxes).

P1 = Existing pipe price in Rs. per Meter (Excluding all taxes).

A2 = Revised price of raw material Rs. per MT excluding all taxes.

A1 = Existing price of raw material Rs. Per MT excluding all taxes

M = Weight of pipe in Kg's per Meter as per weight chart.

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

16. S o R FOR H.D.P.E PIPES FOR THE YEAR 2020-21. (PE - 100 Grades)

Sl.No.	Description	6.0 kg/sqcm		8.0 kg/sqcm		10.0 kg/sqcm		12.5 kg/sqcm		16.0 kg/sqcm	
1	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm dia. in coil & above 90 mm dia. straight length.)										
		Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter
	OD 20 mm									MAT-07355	23
	OD 25 mm									MAT-07356	31
	OD 32 mm					MAT-07309	35	MAT-07333	39	MAT-07357	51
	OD 40 mm			MAT-07285	45	MAT-07310	54	MAT-07334	59	MAT-07358	78
	OD 50 mm	MAT-07261	56	MAT-07286	67	MAT-07311	82	MAT-07335	93	MAT-07359	121
	OD 63 mm	MAT-07262	82	MAT-07287	103	MAT-07312	125	MAT-07336	145	MAT-07360	193
	OD 75 mm	MAT-07263	116	MAT-07288	148	MAT-07313	176	MAT-07337	211	MAT-07361	273
	OD 90 mm	MAT-07264	163	MAT-07289	210	MAT-07314	251	MAT-07338	300	MAT-07362	392
	OD 110 mm	MAT-07265	249	MAT-07290	314	MAT-07315	372	MAT-07339	460	MAT-07363	606
	OD 125 mm	MAT-07266	316	MAT-07291	405	MAT-07316	486	MAT-07340	613	MAT-07364	784
	OD 140 mm	MAT-07267	396	MAT-07292	505	MAT-07317	610	MAT-07341	775	MAT-07365	978
	OD 160 mm	MAT-07268	520	MAT-07293	660	MAT-07318	792	MAT-07342	1000	MAT-07366	1283
	OD 180 mm	MAT-07269	652	MAT-07294	835	MAT-07319	1002	MAT-07343	1274	MAT-07367	1624
	OD 200 mm	MAT-07270	809	MAT-07295	1032	MAT-07320	1236	MAT-07344	1583	MAT-07368	1994
	OD 225 mm	MAT-07271	1048	MAT-07296	1337	MAT-07321	1607	MAT-07345	1987	MAT-07369	2534
	OD 250 mm	MAT-07272	1289	MAT-07297	1653	MAT-07322	1986	MAT-07346	2469	MAT-07370	3121
	OD 280 mm	MAT-07273	1616	MAT-07298	2069	MAT-07323	2487	MAT-07347	3083	MAT-07371	3911
	OD 315 mm	MAT-07274	2048	MAT-07299	2620	MAT-07324	3146	MAT-07348	3885	MAT-07372	4942
	OD 355 mm	MAT-07275	2564	MAT-07300	3277	MAT-07325	3934	MAT-07349	4752	MAT-07373	6297
	OD 400 mm	MAT-07276	3388	MAT-07301	4322	MAT-07326	5177	MAT-07350	6867	MAT-07374	8157
	OD 450 mm	MAT-07277	4199	MAT-07302	5375	MAT-07327	6457	MAT-07351	8682	MAT-07375	10304
	OD 500 mm	MAT-07278	5190	MAT-07303	6627	MAT-07328	7964	MAT-07352	10725	MAT-07376	12795
	OD 560 mm	MAT-07279	5938	MAT-07304	7586	MAT-07329	9047	MAT-07353	11764		
	OD 630 mm	MAT-07280	7481	MAT-07305	9598	MAT-07330	11461	MAT-07354	13744		
	OD 710 mm	MAT-07281	9523	MAT-07306	12158	MAT-07331	14557				
	OD 800 mm	MAT-07282	12085	MAT-07307	15441	MAT-07332	18552				

	OD 900 mm	MAT-07283	15309	MAT-07308	19546						
	OD 1000 mm	MAT-07284	18879								

Note: Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.77,426/-per MT. (Excluding all taxes).

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.

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (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 all taxes).

P1 = Existing pipe price in Rs. per Meter (Excluding all taxes).

A2 = Revised price of raw material Rs. per MT excluding all taxes

A1 = Existing price of raw material Rs. per MT excluding all taxes

M = Weight of pipe in Kg's per Meter as per weight chart.

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

17.HDPE PIPES – (PE –100 Grade) SEWER LINES FOR THE YEAR 2020-21

Sl.No	Description	6.0 kg/ sqcm	8.0 kg/ sqcm	10.0 kg/ sqcm	12.5 kg/ sqcm	16.0 kg/ sqcm					
1	Manufacture, Supply, & Delivery of HDPE Pipes are conforming to IS 14333 - 2000 for using underground drainage and sewerage systems including transportation to anywhere in A.P, excluding all taxes (Supply up to 90 mm drain coil & above 90 mm dia. straight length)										
		Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter	Code	Rate per Meter
	OD 63mm	MAT-07377	88	MAT-07400	110	MAT-07420	132	MAT-07439	158	MAT-07456	189
	OD 75 mm	MAT-07378	124	MAT-07401	159	MAT-07421	189	MAT-07440	225	MAT-07457	268
	OD 90 mm	MAT-07379	176	MAT-07402	226	MAT-07422	268	MAT-07441	319	MAT-07458	387
	OD 110 mm	MAT-07380	252	MAT-07403	318	MAT-07423	380	MAT-07442	456	MAT-07459	544
	OD 125 mm	MAT-07381	322	MAT-07404	411	MAT-07424	492	MAT-07443	582	MAT-07460	704
	OD 140 mm	MAT-07382	403	MAT-07405	511	MAT-07425	616	MAT-07444	734	MAT-07461	884
	OD 160 mm	MAT-07383	524	MAT-07406	668	MAT-07426	804	MAT-07445	961	MAT-07462	1149
	OD 180 mm	MAT-07384	660	MAT-07407	848	MAT-07427	1017	MAT-07446	1208	MAT-07463	1454
	OD 200 mm	MAT-07385	818	MAT-07408	1046	MAT-07428	1254	MAT-07447	1496	MAT-07464	1792
	OD 225 mm	MAT-07386	1032	MAT-07409	1318	MAT-07429	1585	MAT-07448	1886	MAT-07465	2271
	OD 250 mm	MAT-07387	1274	MAT-07410	1631	MAT-07430	1956	MAT-07449	2328	MAT-07466	2797
	OD 280 mm	MAT-07388	1592	MAT-07411	2039	MAT-07431	2440	MAT-07450	2927	MAT-07467	3513
	OD 315 mm	MAT-07389	2015	MAT-07412	2583	MAT-07432	3090	MAT-07451	3694	MAT-07468	4442
	OD 355 mm	MAT-07390	2553	MAT-07413	3271	MAT-07433	3935	MAT-07452	4696	MAT-07469	5635
	OD 400 mm	MAT-07391	3388	MAT-07414	4336	MAT-07434	5205	MAT-07453	6206	MAT-07470	7442
	OD 450 mm	MAT-07392	4275	MAT-07415	5484	MAT-07435	6591	MAT-07454	7840		
	OD 500 mm	MAT-07393	5285	MAT-07416	6761	MAT-07436	8130	MAT-07455	9691		
	OD 560 mm	MAT-07394	6608	MAT-07417	8473	MAT-07437	10200				
	OD 630 mm	MAT-07395	8367	MAT-07418	10725	MAT-07438	12885				
	OD 710 mm	MAT-07396	10894	MAT-07419	13958						
	OD 800 mm	MAT-07397	13823								
	OD 900 mm	MAT-07398	17507								
	OD 1000 mm	MAT-07399	21631								

Note: Reliance Industries Resin cost adopted for the above rates are

For PE - 100 grade Rs.77,426/-per MT. (Excluding all taxes).

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.

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (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 all taxes

P1 = Existing pipe price in Rs. per Meter excluding all taxes

A2 = Revised price of raw material Rs. per MT excluding all taxes

A1 = Existing price of raw material Rs. per MT excluding all taxes

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.

18. S o R FOR H.D.P.E- (PE –100 Grade) FITTINGS FOR THE YEAR 2020-21.

I	Manufacture, Supply, & Delivery of HDPE (PE –100 Grade) fittings conforming to IS 4984 - 1995 including transportation to anywhere in A.P. Excluding all taxes.		
I (a)	PIPE ENDS LONG NECK	Code	Rate per Each
	OD 50 mm	MAT-07471	54
	OD 63 mm	MAT-07472	69
	OD 75 mm	MAT-07473	82
	OD 90 mm	MAT-07474	115
	OD 110 mm	MAT-07475	159
	OD 125 mm	MAT-07476	286
	OD 140 mm	MAT-07477	268
	OD 160 mm	MAT-07478	375
	OD 180 mm	MAT-07479	570
	OD 200 mm	MAT-07480	733
	OD 225 mm	MAT-07481	842
	OD 250 mm	MAT-07482	986
	OD 280 mm	MAT-07483	1102
	OD 315 mm	MAT-07484	1270
	OD 355 mm	MAT-07485	2656
	OD 400 mm	MAT-07486	3539
	OD 450 mm	MAT-07487	5888
	OD 500 mm	MAT-07488	6553
(b)	MS FLANGES	Code	Rate per Each
	OD 50 mm	MAT-07489	66
	OD 63 mm	MAT-07490	83
	OD 75 mm	MAT-07491	107
	OD 90 mm	MAT-07492	115
	OD 110 mm	MAT-07493	121
	OD 125 mm	MAT-07494	166
	OD 140 mm	MAT-07495	180
	OD 160 mm	MAT-07496	236
	OD 180 mm	MAT-07497	333
	OD 200 mm	MAT-07498	431
	OD 225 mm	MAT-07499	540
	OD 250 mm	MAT-07500	638
	OD 280 mm	MAT-07501	723
	OD 315 mm	MAT-07502	851
	OD 355 mm	MAT-07503	1441
	OD 400 mm	MAT-07504	1787
	OD 450 mm	MAT-07505	2333
	OD 500 mm	MAT-07506	2671
(c)	END CAPS	Code	Rate per Each

	OD 50 mm	MAT-07507	40
	OD 63 mm	MAT-07508	47
	OD 75 mm	MAT-07509	59
	OD 90 mm	MAT-07510	79
	OD 110 mm	MAT-07511	90
	OD 125 mm	MAT-07512	125
	OD 140 mm	MAT-07513	146
	OD 160 mm	MAT-07514	223
	OD 180 mm	MAT-07515	362
	OD 200 mm	MAT-07516	396
	OD 225 mm	MAT-07517	412
	OD 250 mm	MAT-07518	586
	OD 280 mm	MAT-07519	600
	OD 315 mm	MAT-07520	820
	OD 355 mm	MAT-07521	1266
	OD 400 mm	MAT-07522	2211
	OD 450 mm	MAT-07523	3556
	OD 500 mm	MAT-07524	6553
(d)	REDUCERS	Code	Rate per Each
	OD 50 mm x 63 mm	MAT-07525	54
	OD 63 mm x 75 mm	MAT-07526	79
	OD 75 mm x 90 mm	MAT-07527	130
	OD 90 mm x 110 mm	MAT-07528	179
	OD 110 mm x 125 mm	MAT-07529	273
	OD 125 mm x 140 mm	MAT-07530	378
	OD 140 mm x 160 mm	MAT-07531	528
	OD 160 mm x 180 mm	MAT-07532	730
	OD 180 mm x 200 mm	MAT-07533	943
	OD 200 mm x 225 mm	MAT-07534	1158
	OD 225 mm x 250 mm	MAT-07535	1578
	OD 250 mm x 280 mm	MAT-07536	2241
	OD 280 mm x 315 mm	MAT-07537	3169
	OD 315 mm x 355 mm	MAT-07538	3635
	OD 355 mm x 400 mm	MAT-07539	5128
	OD 400 mm x 450 mm	MAT-07540	5320
	OD 450 mm x 500 mm	MAT-07541	6821

(e)	TEES	Code	Rate per Each
	OD 50 mm	MAT-07542	76
	OD 63 mm	MAT-07543	120
	OD 75 mm	MAT-07544	146
	OD 90 mm	MAT-07545	256

	OD 110 mm	MAT-07546	303
	OD 125 mm	MAT-07547	456
	OD 140 mm	MAT-07548	629
	OD 160 mm	MAT-07549	1084
	OD 180 mm	MAT-07550	1469
	OD 200 mm	MAT-07551	2024
	OD 225 mm	MAT-07552	2873
	OD 250 mm	MAT-07553	3934
	OD 280 mm	MAT-07554	5509
	OD 315 mm	MAT-07555	7850
	OD 355 mm	MAT-07556	11195
	OD 400 mm	MAT-07557	16397
	OD 450 mm	MAT-07558	23291
	OD 500 mm	MAT-07559	31987
(f)	BENDS	Code	Rate per Each
	OD 50 mm	MAT-07560	47
	OD 63 mm	MAT-07561	106
	OD 75 mm	MAT-07562	138
	OD 90 mm	MAT-07563	235
	OD 110 mm	MAT-07564	311
	OD 125 mm	MAT-07565	459
	OD 140 mm	MAT-07566	604
	OD 160 mm	MAT-07567	901
	OD 180 mm	MAT-07568	1294
	OD 200 mm	MAT-07569	1752
	OD 225 mm	MAT-07570	2487
	OD 250 mm	MAT-07571	3408
	OD 280 mm	MAT-07572	4913
	OD 315 mm	MAT-07573	6796
	OD 355 mm	MAT-07574	9420
	OD 400 mm	MAT-07575	14210
	OD 450 mm	MAT-07576	20890
	OD 500 mm	MAT-07577	28321

II	Providing and Fixing electro Fusion Ferrule Tapping saddle manufactured from virgin resin of PE-80/PE-100 having blue/black color 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, labor all taxes (central & state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.		
	SIZE	Code	Rate Each
	(Main pipe outer diameter in mm & Tapping size in Inches)		
	63x1/2"	MAT-07578	967
	63 x3/4"	MAT-07579	967
	63 x1"	MAT-07580	967
	63 x1/2"	MAT-07581	967
	75 x1/2"	MAT-07582	967
	75 x3/4"	MAT-07583	967
	75 x1	MAT-07584	967
	90 x1/2"	MAT-07585	967
	90 x3/4"	MAT-07586	967
	90 x1"	MAT-07587	967
	90 x 1 1/4"	MAT-07588	1254
	90 x 1 1/2"	MAT-07589	1254
	90 x2"	MAT-07590	1254
	110x1/2"	MAT-07591	967
	110 x3/4"	MAT-07592	967
	110 x1"	MAT-07593	967
	110 x 1 1/4"	MAT-07594	1254
	110x1 1/2"	MAT-07595	1254
	110x2"	MAT-07596	1254
	160 x1/2"	MAT-07597	967
	160 x3/4"	MAT-07598	967
	160 x1"	MAT-07599	967
	160 x 1 1/4"	MAT-07600	1371
	160 x 1 1/2"	MAT-07601	1371
	160 x 2"	MAT-07602	1371
	200 x 1/2"	MAT-07603	1371
	200 x 3/4"	MAT-07604	1371

	200 x 1"	MAT-07605	1371
	200 x 1 1/4"	MAT-07606	1973
	200 x 2"	MAT-07607	1973
	250 x 1/2"	MAT-07608	1390
	250 x 3/4"	MAT-07609	1390
	250 x 1"	MAT-07610	1390
	250 x 1 1/4"	MAT-07611	2009
	250 x 1 1/2"	MAT-07612	2009
	250 x 2"	MAT-07613	2009
	315 x 1/2"	MAT-07614	1655
	315 x 3/4"	MAT-07615	1655
	315x1"	MAT-07616	1655
	315x1 1/4"	MAT-07617	2248
	315x1 1/2"	MAT-07618	2248
	315x2"	MAT-07619	2248

Note: For Item No.18(II). The above rates are including taxes of 18% GST. The same may be deducted for obtaining basic rates.

19. S o R FOR Double Wall Corrugated (DWC) Pipes FOR THE YEAR 2020-21

Sl.No.	Description	Unit	Code	SoR RATES 2020-21
1	2	3	4	5
I	Manufacture, supply, & delivery of (DWC) structured wall polyethylene/polypropylene piping system with non smooth external annular corrugated and smooth internal surface (Double Wall) for non pressure sewage & Drainage application pipes of standard length 6 m, grade conforming to IS 16098 (part-II: 2013) excluding transportation to anywhere in A.P, excluding all taxes.	Meter		
	Inner Dia. (mm)			
	Stiffness Class SN-8			
	100		MAT-07620	156
	135		MAT-07621	237
	150		MAT-07622	289
	170		MAT-07623	349
	200		MAT-07624	479
	250		MAT-07625	740
	300		MAT-07626	995
	400		MAT-07627	1,708
	500		MAT-07628	2,624
	600		MAT-07629	4,523
	800		MAT-07630	7,499
	1000		MAT-07631	12,212

20. SoR FOR PVC PIPES FOR THE YEAR 2020-21

Sl. No.	Description	TEST PRESSURE					
		4.0 Kgs/cm ²		6 Kgs/cm ²		10 Kgs/cm ²	
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 all taxes.						
	DIA. IN MM	Code	Rate/Meter	Code	Rate/Meter	Code	Rate/Meter
	20					MAT-07664	16.00
	25					MAT-07665	24.00
	32					MAT-07666	35.00
	40			MAT-07647	34.00	MAT-07667	54.00
	50			MAT-07648	50.00	MAT-07668	84.00
	63	MAT-07632	55.00	MAT-07649	80.00	MAT-07669	119.00
	75	MAT-07633	80.00	MAT-07650	109.00	MAT-07670	173.00
	90	MAT-07634	110.00	MAT-07651	158.00	MAT-07671	246.00
	110	MAT-07635	160.00	MAT-07652	229.00	MAT-07672	367.00
	125	MAT-07636	209.00	MAT-07653	292.00	MAT-07673	479.00
	140	MAT-07637	261.00	MAT-07654	376.00	MAT-07674	594.00
	160	MAT-07638	344.00	MAT-07655	487.00	MAT-07675	779.00
	180	MAT-07639	438.00	MAT-07656	627.00	MAT-07676	999.00
	200	MAT-07640	532.00	MAT-07657	763.00	MAT-07677	1215.00
	225	MAT-07641	711.00	MAT-07658	1027.00	MAT-07678	1634.00
	250	MAT-07642	826.00	MAT-07659	1250.00	MAT-07679	1980.00
	280	MAT-07643	1074.00	MAT-07660	1577.00	MAT-07680	2494.00
	315	MAT-07644	1363.00	MAT-07661	1999.00	MAT-07681	3157.00
	355	MAT-07645	1795.00	MAT-07662	2604.00		
	400	MAT-07646	2264.00	MAT-07663	3314.00		

Note:

The resin cost adopted for the above rates is Rs.76,825/- per MT (excluding all taxes)

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

The price variation formula to be adopted is as follows:

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

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

P2 = Revised pipe price in Rs. Per 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 NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2020-21

S. No	Description		
1	Manufacture, Supply, & Delivery of Unplasticised 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 anywhere in A.P, excluding all taxes		
	Pipe Series (S25)	Code	Rate per Meter
	OD 160 mm	MAT-07682	291
	OD 200 mm	MAT-07683	442
	OD 250mm	MAT-07684	685
	OD 315 mm	MAT-07685	1081
	Pipe Series (S20)		
	OD 125 mm	MAT-07686	224
	OD 160 mm	MAT-07687	360
	OD 200 mm	MAT-07688	546
	OD 250mm	MAT-07689	851
	OD 315 mm	MAT-07690	1336
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07691	198
	OD 125 mm	MAT-07692	267
	OD 160 mm	MAT-07693	418
	OD 200 mm	MAT-07694	649
	OD 250mm	MAT-07695	1007
	OD 315 mm	MAT-07696	1589

Note: The resin cost adopted for the above rates is Rs.76,825/- per MT (Excluding all taxes). The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

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

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

P2 = Revised pipe price in Rs. per 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 Kg's per Meter as per weight chart.

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

22. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2020-21

S. No	Description		
1	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) <u>with Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes)as per specification inclusive of transportation to the Sub-Divisional stores anywhere in A.P, excluding all taxes		
	Pipe Series (S25)	Code	Rate per Meter
	OD 160 mm	MAT-07697	310
	OD 200 mm	MAT-07698	470
	OD 250mm	MAT-07699	731
	OD 315 mm	MAT-07700	1152
	Pipe Series (S20)		
	OD 125 mm	MAT-07701	241
	OD 160 mm	MAT-07702	381
	OD 200 mm	MAT-07703	580
	OD 250mm	MAT-07704	904
	OD 315 mm	MAT-07705	1420
	Pipe Series (S16.5)		
	OD 110 mm	MAT-07706	211
	OD 125 mm	MAT-07707	284
	OD 160 mm	MAT-07708	446
	OD 200 mm	MAT-07709	686
	OD 250mm	MAT-07710	1067
	OD 315 mm	MAT-07711	1685

Note: The resin cost adopted for the above rates is Rs.76,825/- per MT (Excluding all taxes).The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

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

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

P2 = Revised pipe price in Rs. per 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 Kg's per Meter as per weight chart.

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

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

Sl. No.	Description	Unit	S.S. Rates for 2020-21					
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 and all taxes.							
	Nominal dia. (in MM)		Code	LA Class	Code	A Class	Code	B Class
	80	Rmt	MAT-07712	888	MAT-07729	966	MAT-07746	1033
	100	Rmt	MAT-07713	1100	MAT-07730	1211	MAT-07747	1292
	125	Rmt	MAT-07714	1421	MAT-07731	1553	MAT-07748	1670
	150	Rmt	MAT-07715	1723	MAT-07732	1888	MAT-07749	2028
	200	Rmt	MAT-07716	2519	MAT-07733	2733	MAT-07750	2950
	250	Rmt	MAT-07717	3395	MAT-07734	3696	MAT-07751	3987
	300	Rmt	MAT-07718	4378	MAT-07735	4786	MAT-07752	5172
	350	Rmt	MAT-07719	5515	MAT-07736	5982	MAT-07753	6471
	400	Rmt	MAT-07720	6712	MAT-07737	7334	MAT-07754	7897
	450	Rmt	MAT-07721	8094	MAT-07738	8892	MAT-07755	9565
	500	Rmt	MAT-07722	9474	MAT-07739	10322	MAT-07756	11136
	600	Rmt	MAT-07723	12626	MAT-07740	13784	MAT-07757	14889
	700	Rmt	MAT-07724	16295	MAT-07741	17802	MAT-07758	19178
	750	Rmt	MAT-07725	18248	MAT-07742	19952	MAT-07759	21584
	800	Rmt	MAT-07726	20428	MAT-07743	22258	MAT-07760	24010
	900	Rmt	MAT-07727	24882	MAT-07744	27148	MAT-07761	29333
	1000	Rmt	MAT-07728	29893	MAT-07745	32656	MAT-07762	35189
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)							
	SIZE IN MM UNIT		LA		A		B	
	80 Per KM/RMT		0.29		0.29		0.29	
	100 Per KM/RMT		0.29		0.29		0.29	
	125 Per KM/RMT		0.44		0.44		0.44	
	150 Per KM/RMT		0.44		0.44		0.44	
	200		0.74		0.74		0.74	

	Per KM/RMT				
	250 Per KM/RMT		0.89	0.89	0.89
	300 Per KM/RMT		1.17	1.17	1.17
	350 Per KM/RMT		1.61	1.61	1.61
	400 Per KM/RMT		1.90	1.90	1.90
	450 Per KM/RMT		2.20	2.20	2.20
	500 Per KM/RMT		2.63	2.63	2.63
	600 Per KM/RMT		2.63	2.63	2.63
	700 Per KM/RMT		2.63	2.63	2.63
	750 Per KM/RMT		4.38	4.38	4.38
	800 Per KM/RMT		7.45	7.45	7.45
	900 Per KM/RMT		7.45	7.45	7.45
	1000 Per KM/RMT		7.45	7.45	7.45

Note: 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 all taxes) at the time of preparation of estimate.

R1 = Price of Pig Iron (Rs per MT excluding all taxes) at the time of preparation of SSR = Rs. 34,000/-

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

24.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2020-21

Sl. No.	Description	Unit	Class of Pipe			
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 and all taxes.					
	Nominal Dia. in mm	Rmt	Code	K7	Code	K9
	100	Rmt	MAT-07763	880	MAT-07778	1053
	150	Rmt	MAT-07764	1267	MAT-07779	1569
	200	Rmt	MAT-07765	1726	MAT-07780	2086
	250	Rmt	MAT-07766	2301	MAT-07781	2765
	300	Rmt	MAT-07767	2936	MAT-07782	3532
	350	Rmt	MAT-07768	3779	MAT-07783	4469
	400	Rmt	MAT-07769	4533	MAT-07784	5331
	450	Rmt	MAT-07770	5486	MAT-07785	6436
	500	Rmt	MAT-07771	6463	MAT-07786	7416
	600	Rmt	MAT-07772	8673	MAT-07787	9896
	700	Rmt	MAT-07773	11026	MAT-07788	12489
	750	Rmt	MAT-07774	12478	MAT-07789	14173
	800	Rmt	MAT-07775	13686	MAT-07790	15411
	900	Rmt	MAT-07776	16862	MAT-07791	18949
	1000	Rmt	MAT-07777	19865	MAT-07792	22268
	1100	Rmt			MAT-07793	24135
	1200	Rmt			MAT-07794	28220
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 and all taxes.					
	Nominal Dia. in mm		Code	K7	Code	K9
	100	Rmt	MAT-07795	784	MAT-07810	1002
	150	Rmt	MAT-07796	1160	MAT-07811	1480
	200	Rmt	MAT-07797	1602	MAT-07812	2006
	250	Rmt	MAT-07798	2085	MAT-07813	2663
	300	Rmt	MAT-07799	2756	MAT-07814	3399
	350	Rmt	MAT-07800	3474	MAT-07815	4224
	400	Rmt	MAT-07801	4197	MAT-07816	5092
	450	Rmt	MAT-07802	5015	MAT-07817	6021

	500	Rmt		MAT-07803	5976	MAT-07818	7176					
	600	Rmt		MAT-07804	7902	MAT-07819	9270					
	700	Rmt		MAT-07805	10420	MAT-07820	11760					
	750	Rmt		MAT-07806	11647	MAT-07821	13139					
	800	Rmt		MAT-07807	12887	MAT-07822	14521					
	900	Rmt		MAT-07808	15598	MAT-07823	17541					
	1000	Rmt		MAT-07809	18525	MAT-07824	20874					
	1100	Rmt				MAT-07825	22347					
	1200	Rmt				MAT-07826	23632					
3	Centrifugally cast (Spun) Ductile Iron pressure pipes with flanged (welded) ends for water, gas, sewage conforming to IS: 8329/2000 in standard working lengths of 1,2,3, 4, 5 mts for classification K9 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation and all taxes.											
	Nominal Dia. in mm	Unit	Code	1.0 Mt. Length	Code	2.0 Mt. Length	Code	3.0 Mt. Length	Code	4.0 Mt. Length	Code	5.0 Mt. Length
	100	Each	MAT-07827	3269	MAT-07842	4181	MAT-07857	5089	MAT-07872	6001	MAT-07887	7990
	150	Each	MAT-07828	5245	MAT-07843	6991	MAT-07858	7372	MAT-07873	7713	MAT-07888	10863
	200	Each	MAT-07829	6955	MAT-07844	9339	MAT-07859	9311	MAT-07874	10210	MAT-07889	14126
	250	Each	MAT-07830	9081	MAT-07845	12264	MAT-07860	13288	MAT-07875	13773	MAT-07890	19190
	300	Each	MAT-07831	11653	MAT-07846	15701	MAT-07861	17532	MAT-07876	17923	MAT-07891	24713
	350	Each	MAT-07832	21302	MAT-07847	23865	MAT-07862	24754	MAT-07877	27073	MAT-07892	34567
	400	Each	MAT-07833	24991	MAT-07848	31074	MAT-07863	33937	MAT-07878	34091	MAT-07893	40874
	450	Each	MAT-07834	31967	MAT-07849	39276	MAT-07864	42120	MAT-07879	42999	MAT-07894	50507
	500	Each	MAT-07835	40807	MAT-07850	49497	MAT-07865	50856	MAT-07880	51082	MAT-07895	60121
	600	Each	MAT-07836	47131	MAT-07851	58912	MAT-07866	65947	MAT-07881	66793	MAT-07896	84434
	700	Each	MAT-07837	66360	MAT-07852	80486	MAT-07867	83432	MAT-07882	85522	MAT-07897	92172
	800	Each	MAT-07838	78202	MAT-07853	95323	MAT-07868	98899	MAT-07883	107065	MAT-07898	118008
	900	Each	MAT-07839	82911	MAT-07854	103685	MAT-07869	117969	MAT-07884	134168	MAT-07899	147682
	1000	Each	MAT-07840	113682	MAT-07855	138124	MAT-07870	147535	MAT-07885	167133	MAT-07900	183349
	1100	Each	MAT-07841	134238	MAT-07856	161162	MAT-07871	184443	MAT-07886	197334	MAT-07901	223562
4	Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes						Class		WELDED DOUBLE FLANGED PIPES			
	SIZE IN MM			UNIT			K7	K9	K9			
	100			Per KM/RMT			0.23	0.23	0.35			
	150			Per KM/RMT			0.35	0.35	0.46			
	200			Per KM/RMT			0.35	0.46	0.69			
	250			Per KM/RMT			0.46	0.58	0.92			
	300			Per KM/RMT			0.69	0.69	1.16			
	350			Per KM/RMT			0.81	0.92	1.39			

	400	Per KM/RMT	0.92	1.04	1.62
	450	Per KM/RMT	1.16	1.27	1.96
	500	Per KM/RMT	1.39	1.50	2.31
	600	Per KM/RMT	1.96	1.96	3.00
	700	Per KM/RMT	2.89	2.89	4.39
	750	Per KM/RMT	3.47	3.47	5.31
	800	Per KM/RMT	5.89	5.89	8.78
	900	Per KM/RMT	5.89	5.89	8.78
	1000	Per KM/RMT	5.89	5.89	8.78
	1100	Per KM/RMT	5.89	5.89	8.78
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	MAT-07902		45.00
	150 MM DIA.	RMT	MAT-07903		55.00
	200 MM DIA.	RMT	MAT-07904		70.00
	250 MM DIA.	RMT	MAT-07905		81.00
	300 MM DIA.	RMT	MAT-07906		89.00
	350 MM DIA.	RMT	MAT-07907		100.00
	400 MM DIA.	RMT	MAT-07908		140.00
	450 MM DIA.	RMT	MAT-07909		140.00
	500 MM DIA.	RMT	MAT-07910		169.00
	600 MM DIA.	RMT	MAT-07911		169.00
	700 MM DIA.	RMT	MAT-07912		220.00
	750 MM DIA.	RMT	MAT-07913		220.00
	800 MM DIA.	RMT	MAT-07914		220.00
	900 MM DIA.	RMT	MAT-07915		250.00
	1000 MM DIA.	RMT	MAT-07916		250.00
	1100 MM DIA.	RMT	MAT-07917		308.00
6	Additional price for HAC(high alumina cement mortar lining)				
	DIA. IN MM				
	100 MM DIA.	RMT	MAT-07918		67.00
	150 MM DIA.	RMT	MAT-07919		88.00
	200 MM DIA.	RMT	MAT-07920		108.00
	250 MM DIA.	RMT	MAT-07921		129.00
	300 MM DIA.	RMT	MAT-07922		138.00
	350 MM DIA.	RMT	MAT-07923		157.00

	400 MM DIA.	RMT	MAT-07924	216.00
	450 MM DIA.	RMT	MAT-07925	216.00
	500 MM DIA.	RMT	MAT-07926	266.00
	600 MM DIA.	RMT	MAT-07927	266.00
	700 MM DIA.	RMT	MAT-07928	341.00
	750 MM DIA.	RMT	MAT-07929	341.00
	800 MM DIA.	RMT	MAT-07930	341.00
	900 MM DIA.	RMT	MAT-07931	389.00
	1000 MM DIA.	RMT	MAT-07932	389.00
	1100 MM DIA.	RMT	MAT-07933	389.00
	1200 MM DIA.	RMT	MAT-07934	389.00

Note: 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)) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT) at the time of preparation

Of SoR =Rs.34,000/- (Excluding all taxes).

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

25. S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2020-21

Sl. No.	Description	Unit	Code	Rate
	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 and all Taxes.			
I	DI double socket branch flange Tee			
	Up to 500 x 500 mm dia.	Kg	MAT-07935	118.52
	Above 500 x 500 mm dia.	Kg	MAT-07936	131.52
II	DI All Socket Tees			
	Up to 300 x 300 mm dia.	Kg	MAT-07937	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07938	131.52
III	DI Double socket Tapers (Reducer)			
	Up to 500 x 450 mm dia.	Kg	MAT-07939	118.52
	Above 500 x 450 mm dia.	Kg	MAT-07940	131.52
IV	DI Flanged Socket			
	Up to 500 mm dia.	Kg	MAT-07941	118.52
	Above 500 mm dia.	Kg	MAT-07942	131.52
V	DI Flanged Spigot			
	Up to 500 mm dia.	Kg	MAT-07943	118.52
	Above 500 mm dia.	Kg	MAT-07944	131.52
VI	DI Double Socket Duck Foot Bend			
	Up to 300mm dia.	Kg	MAT-07945	118.52
	Above 300mm dia.	Kg	MAT-07946	131.52
VII	DI Double Flange Duck/Foot bend			
	Up to 300 mm dia.	Kg	MAT-07947	118.52
	Above 300 mm dia.	Kg	MAT-07948	131.52
VIII	DI All socket Cross.			
	Up to 300 x 300 mm dia.	Kg	MAT-07949	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07950	131.52
IX	DI All Flange Tee			
	Up to 500 x 500 mm dia.	Kg	MAT-07951	118.52
	Above 500 x 500 mm dia.	Kg	MAT-07952	131.52
X	DI All Flange Cross			
	Up to 300 x 300 mm dia.	Kg	MAT-07953	118.52
	Above 300 x 300 mm dia.	Kg	MAT-07954	131.52

XI	DI Double Flange Reducer			
	Up to 500 x 450 mm dia.	Kg	MAT-07955	118.52
	Above 500 x 450 mm dia.	Kg	MAT-07956	131.52
XII	Blank Flange			
	Up to 500 mm dia.	Kg	MAT-07957	118.52
	Above 500 mm dia.	Kg	MAT-07958	131.52
XIII	Mechanical Joints			
	Up to 300 mm dia.	Kg	MAT-07959	118.52
	Above 300 mm dia.	Kg	MAT-07960	131.52
XIV	DI Double Socket Bends			
	Up to 500mm dia.	Kg	MAT-07961	118.52
	Above 500 mm dia.	Kg	MAT-07962	131.52
XV	DI Double Flanged Bends			
	Up to 500mm dia.	Kg	MAT-07963	118.52
	Above 500 mm dia.	Kg	MAT-07964	131.52

**26. S o R FOR RUBBER GASKETS SUITABLE FOR C.I/ D.I S/S PIPES FOR THE
YEAR 2020-21**

Sl. No.	Description	Unit	Code	Rate
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 all taxes.			
	80mm dia.	Each	MAT-07965	39
	100mm dia.	Each	MAT-07966	61
	125mm dia.	Each	MAT-07967	73
	150mm dia.	Each	MAT-07968	89
	200mm dia.	Each	MAT-07969	107
	250mm dia.	Each	MAT-07970	120
	300mm dia.	Each	MAT-07971	183
	350mm dia.	Each	MAT-07972	231
	400mm dia.	Each	MAT-07973	256
	450mm dia.	Each	MAT-07974	299
	500mm dia.	Each	MAT-07975	416
	600mm dia.	Each	MAT-07976	525
	700mm dia.	Each	MAT-07977	698
	750mm dia.	Each	MAT-07978	823
	800mm dia.	Each	MAT-07979	987
	900mm dia.	Each	MAT-07980	1191
	1000mm dia.	Each	MAT-07981	1303

27. SoR FOR CI PIPES AND SPECIALS FOR THE YEAR 2020-21

Sl. No.	Description	Quality or sort	Code	Rate/ Kg including packing, forwarding, Transit risk and delivery anywhere in A.P. for the year 2020-21. (Rs.)
1	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	MAT-07982	70.94

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

Pig Iron: Rs.34,000/- per M.T. (Excluding all taxes).

Coke : Rs.22,568/- per M.T. (Excluding all taxes).

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.

Note-1: The above formula for calculation of revised cost to be used for preparation of Estimates only.

28. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2020-21
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURE							
		10 Kgs/cm ²		15 Kgs/cm ²		20 Kgs/cm ²		25 Kgs/cm ²	
1	Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation and all taxes.								
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	100	MAT-07983	70689	MAT-07986	81294	MAT-07989	89422	MAT-07992	98361
	150	MAT-07984	107425	MAT-07987	123539	MAT-07990	135892	MAT-07993	149481
	200	MAT-07985	114661	MAT-07988	131858	MAT-07991	145046	MAT-07994	159550
2	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves							

29. S o R FOR VALVES CONFORMING TO IS for normal usage 2020-21.

Sl. No.	Description				
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 Lead 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 ISI marked.				
		PN 1.0 (MPa)		PN 1.6 (MPa)	
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each
	450	MAT-07995	168080	MAT-08004	210100
	500	MAT-07996	210980	MAT-08005	263725
	600	MAT-07997	270380	MAT-08006	337975
	700	MAT-07998	520080	MAT-08007	375100
	800	MAT-07999	674080	MAT-08008	650100
	900	MAT-08000	875380	MAT-08009	705100
	1000	MAT-08001	1425380	MAT-08010	842600
	1100	MAT-08002	1645380	MAT-08011	960850
	1200	MAT-08003	1865380	MAT-08012	1094225
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 Nitrite or EPDM rubber; excluding transportation and all taxes, complete.				
	DIA. IN MM	Code	PN 2.5 (MPa) (Rate/Each)		
	50	MAT-08013	14080		
	100	MAT-08014	16280		
	150	MAT-08015	23980		
	200	MAT-08016	43780		
	250	MAT-08017	49280		
	300	MAT-08018	56980		
	350	MAT-08019	69080		
	400	MAT-08020	100980		
	450	MAT-08021	132880		
	500	MAT-08022	190080		
	550	MAT-08023	210980		
	600	MAT-08024	234080		
	650	MAT-08025	270380		

	700		MAT-08026		328680
	750		MAT-08027		344080
	800		MAT-08028		369380
	850		MAT-08029		388080
	900		MAT-08030		438680
	1000		MAT-08031		564080
	1100		MAT-08032		674080
	1200		MAT-08033		894080
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)	
	DIA. IN MM	Code	Rate/Each	Code	Rate/Each
	50	MAT-08034	10780	MAT-08046	13475
	100	MAT-08035	15180	MAT-08047	18975
	150	MAT-08036	21780	MAT-08048	27225
	200	MAT-08037	29480	MAT-08049	36850
	250	MAT-08038	40480	MAT-08050	50600
	300	MAT-08039	62480	MAT-08051	78100
	350	MAT-08040	74580	MAT-08052	93225
	400	MAT-08041	89980	MAT-08053	112475
	450	MAT-08042	116380	MAT-08054	145475
	500	MAT-08043	192280	MAT-08055	240350
	550	MAT-08044	212080	MAT-08056	265100
	600	MAT-08045	256080	MAT-08057	320100
4	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost of valves			

**30. S o R FOR VALVES FOR HEAVY USUAGE in WTPS, STPS, PUMP HOUSES,
PUMPING MAINS & ELSRS 2020-21.**

Sl. No	Description	TEST PRESSURE					
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)	
	A) Without By-Pass	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	50	MAT-08058	7669	MAT-08067	7669	MAT-08076	14403
	80	MAT-08059	9922	MAT-08068	9922	MAT-08077	17758
	100	MAT-08060	11880	MAT-08069	12957	MAT-08078	20134
	150	MAT-08061	18480	MAT-08070	20401	MAT-08079	33584
	200	MAT-08062	23980	MAT-08071	29975	MAT-08080	56644
	250	MAT-08063	30580	MAT-08072	38225	MAT-08081	84135
	300	MAT-08064	56980	MAT-08073	70965	MAT-08082	136471
	350	MAT-08065	78980	MAT-08074	98725	MAT-08083	399358
	400	MAT-08066	100980	MAT-08075	126225	MAT-08084	406201
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	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	25	MAT-08085	4180	MAT-08093	5225		
	40	MAT-08086	7480	MAT-08094	9350	MAT-08101	53890
	50	MAT-08087	10780	MAT-08095	13475	MAT-08102	45806
	80	MAT-08088	18480	MAT-08096	23100	MAT-08103	47492
	100	MAT-08089	23980	MAT-08097	29975	MAT-08104	63764
	150	MAT-08090	45980	MAT-08098	57475	MAT-08105	77145
	200	MAT-08091	66538	MAT-08099	66538	MAT-08106	85984
	300	MAT-08092	108680	MAT-08100	119790		

3	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						
	DIA. IN MM	PN 1.0 (MPa)		PN 1.6 (MPa)		PN 2.5 (MPa)	
	a)Without By-Pass	Code	Rate/Each	Code	Rate/Each	Code	Rate/Each
	80	MAT-08107	11880	MAT-08123	14850	MAT-08139	23760
	100	MAT-08108	16280	MAT-08124	20350	MAT-08140	32560
	150	MAT-08109	21780	MAT-08125	27225	MAT-08141	43560
	200	MAT-08110	27280	MAT-08126	34100	MAT-08142	54560
	250	MAT-08111	39380	MAT-08127	49225	MAT-08143	78760
	300	MAT-08112	56980	MAT-08128	71225	MAT-08144	113960
	b)With By-Pass						
	350	MAT-08113	67980	MAT-08129	84975	MAT-08145	135960
	400	MAT-08114	104280	MAT-08130	130350	MAT-08146	208560
	450	MAT-08115	149380	MAT-08131	186725	MAT-08147	298760
	500	MAT-08116	206580	MAT-08132	258225	MAT-08148	413160
	550	MAT-08117	303380	MAT-08133	377520	MAT-08149	606760
	600	MAT-08118	369380	MAT-08134	461725	MAT-08150	738760
	650	MAT-08119	438680	MAT-08135	548350	MAT-08151	877360
	700	MAT-08120	548680	MAT-08136	685850	MAT-08152	1097360
	750	MAT-08121	850850	MAT-08137	935935		
	800	MAT-08122	1100000	MAT-08138	1210000		
4	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.									
DIA. IN MM	Code	PN 1.0 (MPa)	Code	PN 1.6 (MPa)	Code	PN 2.5 (MPa)	Code	PN 4.0 (MPa)	
150	MAT-08153	19580	MAT-08173	24475	MAT-08193	39160	MAT-08213	146478	
200	MAT-08154	27280	MAT-08174	34100	MAT-08194	54560	MAT-08214	178108	
250	MAT-08155	38280	MAT-08175	47850	MAT-08195	76560	MAT-08215	249581	
300	MAT-08156	47080	MAT-08176	58850	MAT-08196	94160	MAT-08216	262068	
350	MAT-08157	65780	MAT-08177	82225	MAT-08197	131560	MAT-08217	285236	
400	MAT-08158	87780	MAT-08178	109725	MAT-08198	175560	MAT-08218	436082	
450	MAT-08159	98780	MAT-08179	123475	MAT-08199	197560		-	
500	MAT-08160	127380	MAT-08180	159225	MAT-08200	254760	MAT-08219	538878	
600	MAT-08161	168080	MAT-08181	210100	MAT-08201	336160	MAT-08220	590468	
700	MAT-08162	218680	MAT-08182	273350	MAT-08202	437360			
800	MAT-08163	279180	MAT-08183	348975	MAT-08203	558360			
900	MAT-08164	328680	MAT-08184	410850	MAT-08204	657360			
1000	MAT-08165	454080	MAT-08185	567600	MAT-08205	908160			
1100	MAT-08166	674080	MAT-08186	842600	MAT-08206	1348160			
1200	MAT-08167	784080	MAT-08187	980100	MAT-08207	1568160			
1400	MAT-08168	1098680	MAT-08188	1373350	MAT-08208	2197360			
1600	MAT-08169	1367080	MAT-08189	1708850	MAT-08209	2734160			
1800	MAT-08170	2116180	MAT-08190	2645225	MAT-08210	4232360			
2000	MAT-08171	2547380	MAT-08191	3184225	MAT-08211	5094760			
2200	MAT-08172	2838880	MAT-08192	3548600	MAT-08212	5677760			

NOTE:-1) All the prices are ex-go down /ex-factory. Packaging and Transportation extra at 5% on basic cost. 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.

31. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2020-21.

Sl. No.	Description	Unit	Code	Rate
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, un-loading & stacking at site but excluding all taxes.			
a)	M.D. -10 with 500mm dia. Clear opening	Each	MAT-08221	1543.00
b)	H.D.-20 with 500mm dia. Clear opening	Each	MAT-08222	1989.00
C)	H.D.-10with 560mmdia. clear opening(New item)	Each	MAT-08223	1560.00
d)	H.D.-20 with 560mm dia. Clear opening	Each	MAT-08224	2133.00
e)	H.D.-35 with 560mm dia. Clear opening.	Each	MAT-08225	2286.00
f)	24x24 MD 10	Each	MAT-08226	1682.00
g)	24x18 MD 10	Each	MAT-08227	1548.00
h)	24x24 HD 20	Each	MAT-08228	1890.00
i)	24x18 HD 20	Each	MAT-08229	1927.00
j)	Dividers 0.9 Mtr.	Each	MAT-08230	3957.00
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 all taxes.	Each	MAT-08231	166.00

32. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2020-21

Sl.No.	Description	Unit	Code	Rate
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 all taxes.			
	Nominal Dia. In MM			
	50	Each	MAT-08232	4826
	80	Each	MAT-08233	5282
	100	Each	MAT-08234	6900
	125	Each	MAT-08235	8800
	150	Each	MAT-08236	9777
	200	Each	MAT-08237	13864
	250	Each	MAT-08238	16504
	300	Each	MAT-08239	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 all taxes.			
	Nominal Dia. In MM			
	350	Each	MAT-08240	59,785
	400	Each	MAT-08241	68,507
	450	Each	MAT-08242	74,325
	500	Each	MAT-08243	88,959
	600	Each	MAT-08244	1,03,515
	700	Each	MAT-08245	1,15,161
	750	Each	MAT-08246	1,18,075
	800	Each	MAT-08247	1,41,365
	900	Each	MAT-08248	1,47,482
	1000	Each	MAT-08249	1,76,660
	1100	Each	MAT-08250	1,91,245
	1200	Each	MAT-08251	2,20,420
	1300	Each	MAT-08252	2,49,592
	1400	Each	MAT-08253	2,79,334
	1600	Each	MAT-08254	3,08,566
	1800	Each	MAT-08255	3,65,405
	2000	Each	MAT-08256	4,54,730
3	Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.	5% on basic cost		

33. OTHER ITEMS FOR THE YEAR 2020-21

Sl. No.	Description	Unit	Code	Rate
1	2	3	4	5
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08257	287
2	SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08258	168
3	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	MAT-08259	116
4	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.			
	a) 3 mm thick	Per Kg	MAT-08260	93
	b) 6 mm thick	Per Kg	MAT-08261	93
5	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	MAT-08262	111

**34. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD FOR
THE YEAR 2020-21**

Sl. No.	Description	Unit	Code	Rate
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	MAT-08263	26000
	900 mm dia.	Rmt	MAT-08264	27300
	1000 mm dia.	Rmt	MAT-08265	28600
	1100 mm dia.	Rmt	MAT-08266	29900
	1200 mm dia.	Rmt	MAT-08267	31200
	1300 mm dia.	Rmt	MAT-08268	32500
	1400mm dia.	Rmt	MAT-08269	35100
	1500 mm dia.	Rmt	MAT-08270	39000

35.S o R FOR HOUSE SERVICE CONNECTIONS FOR THE YEAR 2020-21

Sl. No.	Description	Unit	Code	Rate
1	<p><u>House service connections (Compression Fittings)</u> Supply and Fixing of compression fittings shall comply with ISO 17885 2015, PN-16 rating and manufactured from virgin resin of PE-80 having blue color. Raw material must be WRAS approved as per BS 6920 for effect on water quality intended for human consumption. Compression fittings should have moulded in SS 304 threaded insert outlet with thread dimension confirming to IS 554/ISO 7. The cost shall include testing of all materials, labor all taxes (central and state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge.</p>			
	Compression male/female threaded adaptor with SS insert D20 mm X 1/2 "	Each	MAT-08296	165
	Compression male/female threaded adaptor with SS insert D25 mm X 3/4 "	Each	MAT-08297	203
	Compression male/female threaded adaptor with SS insert D32 mm X 1 "	Each	MAT-08298	306
	Compression male/female threaded elbow with SS insert D20 mm X 1/2 "	Each	MAT-08299	176
	Compression male/female threaded elbow with SS insert D25 mm X 3/4 "	Each	MAT-08300	226
	Compression male/female threaded elbow with SS insert D32 mm X 1 "	Each	MAT-08301	336
	Double Compression elbow 20 mm 64	Each	MAT-08302	72
	Double Compression elbow 25 mm 79	Each	MAT-08303	89
	Double Compression elbow 32 mm	Each	MAT-08304	126
2	<p><u>House service connections (Composite strap saddle for DI/CI pipes)</u> Supply and fixing of composite strap saddle shall be of wrap around design pN-16 rating. Body shall be manufactured using virgin compounded PE 80/PE 100 polymer with stainless steel 304 grade stirrup plate mounted with PE straps (Engineering Plastic) with Nut bolt joint, sealing between the saddle and mains shall be obtained by using an elastomer seal (Underneath projection for self interlocking). The cost shall include testing of all materials, labor all taxes (central and state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge.</p>			
	(Main pipe outer diameter in mm & tapping size in inches)			
	100 x 1/2"	Each		685
	100 x 3/4"	Each		709
	100 x 1"	Each		860
	150 x 1/2"	Each	MAT-08305	979
	150 x 3/4"	Each	MAT-08306	1018
	150 x 1"	Each	MAT-08307	1162
	200 x 1/2"	Each	MAT-08308	1034

	200 x 3/4"	Each	MAT-08309	1139
	200 x 1"	Each	MAT-08310	1185
3	<u>House service connections (Regulating Brass ferrule)</u> The cost shall include testing of all materials, labor all taxes (central and state), inspection charges, transportation up to site, transit insurance, loading, unloading, stacking and fixing etc, complete as specified and directed by the departmental Engineer in charge.			
	1/2"	Each	MAT-08311	182
	3/4"	Each	MAT-08312	300
	1"	Each	MAT-08313	523
4	<u>House service connections (PP Saddle)</u>			
	(Main pipe outer diameter in mm & tapping size in inches)			
	63x1/2"	Each	MAT-08314	800
	63x3/4"	Each	MAT-08315	800
	63x1"	Each	MAT-08316	800
	75x1/2"	Each	MAT-08317	800
	75x3/4"	Each	MAT-08318	800
	75x1"	Each	MAT-08319	800
	90x1/2"	Each	MAT-08320	800
	90x3/4"	Each	MAT-08321	800
	90x1"	Each	MAT-08322	800
	110x1/2"	Each	MAT-08323	800
	110x3/4"	Each	MAT-08324	800
	110x1"	Each	MAT-08325	800
	125x1/2"	Each	MAT-08326	800
	125x3/4"	Each	MAT-08327	800
	125x1"	Each	MAT-08328	800
	140x1/2"	Each	MAT-08329	800
	140x3/4"	Each	MAT-08330	800
	140x1"	Each	MAT-08331	800
	160x1/2"	Each	MAT-08332	800
	160x3/4"	Each	MAT-08333	800
	160x1"	Each	MAT-08334	800
	180x1/2"	Each	MAT-08335	954
	180x3/4"	Each	MAT-08336	954
	180x1"	Each	MAT-08337	954
	200x1/2"	Each	MAT-08338	954
	200x3/4"	Each	MAT-08339	954
	200x1"	Each	MAT-08340	954
5	Supply and Fixing of Meter Box / Valve box is recommended to encompass & protect Water meters/valves installed on drinking water supply pipes. Meter Box manufacturers must have ISO 9001, ISO 14001 and ISO 18001 certification for			

	<p>their QMS, EMS & OHSAS systems. Meter Box should be of two components, comprising body and lid. Provision for embossed marking on the lid as per customer requirement, Nominal Size of box should be 8" X 12" with Rectangular shape ,Minimum Dimensions: Length 355mm x height 180mm x width 270mm,Locking: with Built in lock.</p>		
	<p>METER BOX 8X12 WITH BUILT IN LOCK,</p>	<p>Each</p>	<p>450</p>

Note: For Item No.35 (1 to 5). The above rates are including taxes of 18% GST. The same may be deducted for obtaining basic rates.

36. SoR FOR ARC WELDED M.S PIPE FOR THE YEAR 2020-21

Manufacture, supply and delivery of submerged ARC welded M.S Pipe having bevelled ends from plate or coil conforming to IS-3589 and/or IS-5504 with its latest revision / amendment with inside 406 micron thick food grade epoxy coating and outside 3LPE coating conforming to DIN 30670 / Polyolefin Tape coating conforming to AWWA C214 for the specified thickness & inner diameter of pipe, external field joint coating with polyolefin backing and internal field joint coating with chemically cured 2 part epoxy based solvent free liquid coating material for Drinking Water NSF approved etc., complete including all labour, materials and ROU/ROW as per specification and to the satisfaction of Engineer-in-charge excluding transportation and GST.

Inner Diameter (mm)	Outer Diameter (mm)	Thickness (mm)	Code	MS Pipe Rate with Internal 406 micron thick food grade epoxy coating and 3LPE coating conforming to DIN 30670	Code	MS Pipe Rate with Internal 406 micron thick food grade epoxy coating and Polyolefin Tape coating conforming to AWWA C214
500	510	5	MAT-08344	5723	MAT-08408	5634
500	511.20	5.60	MAT-08345	6165	MAT-08409	6084
500	512.60	6.30	MAT-08346	6681	MAT-08410	6600
500	522	11	MAT-08347	10186	MAT-08411	10104
600	611.60	5.80	MAT-08348	7558	MAT-08412	7462
600	612.60	6.30	MAT-08349	7998	MAT-08413	7902
600	625	12.50	MAT-08350	13522	MAT-08414	13424
700	712.60	6.30	MAT-08351	9285	MAT-08415	9204
700	714.20	7.10	MAT-08352	10101	MAT-08416	10024
700	728.40	14.20	MAT-08353	17422	MAT-08417	17390
800	814.20	7.10	MAT-08354	11526	MAT-08418	11440
800	816	8	MAT-08355	12573	MAT-08419	12494
800	836	18	MAT-08356	24369	MAT-08420	24365
900	916	8	MAT-08357	14125	MAT-08421	14040
900	917.60	8.80	MAT-08358	15172	MAT-08422	15093
900	920	10	MAT-08359	16745	MAT-08423	16677
900	935	17.50	MAT-08360	26672	MAT-08424	26669
1000	1017.60	8.8	MAT-08361	16837	MAT-08425	16752
1000	1020	10	MAT-08362	18581	MAT-08426	18508
1000	1040	20	MAT-08363	33269	MAT-08427	33296
1050	1067.60	8.80	MAT-08364	17670	MAT-08428	17583
1050	1070	10	MAT-08365	19499	MAT-08429	19423
1050	1072	11	MAT-08366	21026	MAT-08430	20961
1100	1117.6	8.8	MAT-08367	18587	MAT-08431	18412

1100	1120	10	MAT-08368	20515	MAT-08432	20339
1100	1122	11	MAT-08369	22124	MAT-08433	21947
1200	1220	10	MAT-08370	22362	MAT-08434	22170
1200	1222	11	MAT-08371	24114	MAT-08435	23922
1200	1225	12.50	MAT-08372	26748	MAT-08436	26556
1300	1325	12.50	MAT-08373	28952	MAT-08437	28744
1300	1328.40	14.20	MAT-08374	32189	MAT-08438	31980
1400	1425	12.50	MAT-08375	31155	MAT-08439	30931
1400	1428.40	14.20	MAT-08376	34634	MAT-08440	34410
1500	1528.40	14.20	MAT-08377	37082	MAT-08441	36841
1500	1532	16	MAT-08378	41031	MAT-08442	40792
1600	1628.40	14.20	MAT-08379	39528	MAT-08443	39274
1600	1632	16	MAT-08380	43733	MAT-08444	43480
1700	1728.40	14.20	MAT-08381	41973	MAT-08445	41705
1700	1732	16	MAT-08382	46435	MAT-08446	46169
1700	1735	17.50	MAT-08383	50160	MAT-08447	49898
1800	1828.40	14.20	MAT-08384	44419	MAT-08448	44137
1800	1832	16	MAT-08385	49137	MAT-08449	48859
1800	1835	17.50	MAT-08386	53077	MAT-08450	52801
1900	1932	16	MAT-08387	51839	MAT-08451	51548
1900	1935	17.50	MAT-08388	55993	MAT-08452	55704
1900	1940	20	MAT-08389	62930	MAT-08453	62646
2000	2032	16	MAT-08390	54542	MAT-08454	54236
2000	2035	17.50	MAT-08391	58909	MAT-08455	58608
2000	2040	20	MAT-08392	66203	MAT-08456	65907
2100	2135	16	MAT-08393	61826	MAT-08457	61512
2100	2140	17.50	MAT-08394	69476	MAT-08458	69169
2100	2144.40	20	MAT-08395	76224	MAT-08459	75921
2200	2235	17.50	MAT-08396	64742	MAT-08460	64415
2200	2240	20	MAT-08397	72750	MAT-08461	72429
2200	2244.40	22.20	MAT-08398	79811	MAT-08462	79498
2300	2340	20	MAT-08399	76023	MAT-08463	75691
2300	2344.40	22.20	MAT-08400	83399	MAT-08464	83074
2300	2350	25	MAT-08401	92806	MAT-08465	92489
2400	2440	20	MAT-08402	79296	MAT-08466	78951
2400	2444.40	22.20	MAT-08403	86986	MAT-08467	86648
2400	2450	25	MAT-08404	96793	MAT-08468	96465
2500	2540	20	MAT-08405	82569	MAT-08469	82213
2500	2544.40	22.20	MAT-08406	90573	MAT-08470	90224
2500	2550	25	MAT-08407	100780	MAT-08471	100441

37. SoR FOR HDPE ELECTRICAL PIPE CONDUITS FOR THE YEAR 2020-21

Supply of the HDPE Electrical pipe conduits with permanent Lubricant inner layer with ribs , dimensional ratio of 13.5, deflection not greater than 5% when exposed to the normal operating temperature 90 degrees centigrade under the overburden soil pressure and other physical properties confirming to ASTM F 2160 and / or NEMA TC 7 (The expected service life of HDPE Pipe conduit and accessories shall not be less than 50 years)including transportation and excluding GST

Diameter	Code	Rate per Rmt
160 mm	MAT-08472	1221
200 mm	MAT-08473	1981
225mm	MAT-08474	2902
7 way (Multi duct for ICT)	MAT-08475	955

38. SoR FOR BORE WELL DRILLING RATES FOR THE YEAR 2020-21

S.No	Type of Bore Well	Rate in Rs.
1	Drilling of Bore well with DTH Rig per RM	
	Drilling of Bore well by down the hole hammer drilling to a finished dia of 112/165 mm dia in all formations suitable for down the hole hammer drilling such as medium hard rock formation to hard rock formation, all consolidated formation etc. and drilling in over burden to dia not less than 200 mm etc and reaming the bore well to suit insertion of suitable casing pipe etc., including insertion of casing pipe with couplings, caps any other relevant materials upto required depth as directed by the department including transportation of drilling rigs and supporting vehicle and including bore development (Flushing of Bore Well at an average pressure of 150 PSI) conducting yield test, consumables charges, Crew charges required in fixation of pipe assembly completely done to the satisfaction of the department and including all labour charges but excluding all taxes, the cost of casing pipe, couplings, cap etc., The entire work should be carried out as per IS -2800 Part I & II 1979 and amended from time to time.	
	Drilling of Bore well 112 mm dia. up to 150.00 m depth	348.20
	Drilling of Bore well 112 mm dia. beyond 150.00 m depth	397.30
	Drilling of Bore well 112 mm dia for Agency area	10% over plain area rates.
	Drilling of Bore well 165 mm dia. up to 90.00 m depth	446.40
	Drilling of Bore well 165 mm dia. above 90.00 m up to 150.00 m depth	477.60
	Drilling of Bore well 165 mm dia. above 150.00 m up to 250.00 m depth	535.70
	Drilling of Bore well 165 mm dia. above 250.00 m to 350.00 m depth	651.70
	Drilling of Bore well 165 mm dia. beyond 350.00 m depth	705.30
	Drilling of Bore well 165 mm dia for Agency area	10% over plain area rates.
2	Drilling of Bore well with Rotary Rig per RM	
	Drilling of Bore hole (which may be carried out by pilot bore hole) to a finished dia of 200/225/300 /350/450 mm hole (for insertion of 110/140/160/180/200mm PVC Pipe / 175/200mm PVC Blue casing pipe) by Rotary drilling rig in all formations suitable for Rotary drilling such as alluvium, Loamy, clayey, sandy, burried channels, highly disturbed and bouldary zones high sheared and fractured zones followed by jointed to massive soft, medium rock, all formations typical and suitable for rotary drilling etc. including insertion of casing pipe , couplings, cap, plug fixation, and including filling the peripheral gap with rebullied pebbled gravel packing, bore development, conducting yield test, and all other required in the fixation of pipes assembly etc. but excluding the cost of casing pipe, couplings, dummys, clamps etc., as recommended by the departmental Geologist. The bore should be developed with compressor air until clear water free from sand and other materials continuously discharged. The size of gravel used for gravel packing should be as per ISI specification used for rotary tube well. The	

	pebbled gravel packing should be carried out in such a way that the theoretical quantity consumed completely.	
	The entire work to be carried out as per I.S. 2800 Part - I & II of 1979 and including cost of all materials and all labour charges and excluding all taxes etc.,	
	Drilling of Bore well of 200/225/300 mm dia for insertion of pipe dia of 100/125 mm	1000
	Drilling of Bore well 350/450mm dia for insertion of pipe dia of 160/175/200 mm	1294.60
	Drilling of Bore wells for Agency area	10% over plain area rates.
3	Drilling of Bore Wells with Hand Bore Set per RM	
	Drilling of Bore well with Hand Bore set to a finished dia of 112/165/175/180 mm justify both sides in all kinds of formations suitable for hand bore set drilling such as black cotton soils, sandy and alluvial soils and insertion of PVC/PVC blue casing pipe with couplings including slotting of pipe where ever required and fixing of bore well with cap and bail plug as per directions of the department for a finished item of work including conducting yield test, crew charges, cost of consumables, transportation charges and bore development charges and all other charges required in fixation of pipe assembly, Flushing of bore with required pressure excluding cost of all required materials such as cap, bail plug, clamp sets, bolts and nuts etc., excluding all taxes , cost of PVC casing pipe, slotting charges.	
	Drilling of Bore well of finished dia of 112 mm	401.70
	Drilling of Bore well of finished dia of 112 mm for Agency	10% over plain area rates.
	Drilling of Bore well of finished dia of 165/175/180 mm	575.90
	Drilling of Bore well of finished dia of 165/175/180 mm for Agency area	10% over plain area rates.
4	Construction of bore well platform	
	Construction of bore well platform of 1.85 m dia and 3.00 m length drain and foot rest of 1.00 x LOU m with CC (1:2:4) using 20 mm H8G metal including cost and conveyance of all materials labour charges, centering, curing, seigniorage charges & excluding taxes etc., complete as per UNICEF type design.	
	For Plain Areas per 1No	8800
	For Agency Areas per 1No	10% over plain area rates.
5	Flushing of bore well	
	Flushing of bore well of dia 165/150 mm with power rig at an average pressure of 150 PSI, including crew charges, completely done to the satisfaction of the department including detachable of all accessories and refix all materials as per the original condition including all labour charges, but excluding cost of materials & excluding taxes etc., complete,	
	for 112 mm dia Bore wells per 1 Job	8000
	for 165/150 mm dia Bore wells per 1 Job	9500
	For Agency Areas	10% over plain

		area rates.
6	Deepening of existing bore wells	
	Deepening of existing bore wells of dia 165/150mm by using DTH rig including flushing the bore well, conducting yield test etc. excluding taxes.	
	for depth up to 150 mm per RM	525
	for depth from 150 mm to 250mm per RM	600
	for depth from 250 mm to 350mm per RM	730
	above 350 mm depth per RM	790
7	Supply, Delivery of ISI marked fully hot dipped galvanized deep well Inida Mark-H Hand Pump assembly complete unit with 10 Nos of connecting rods (bright bar of 12mm dia and 100 mts length each confirming to IS 9301/1990 & IS 14101 to 14104:1994 with their amendments / revisions but excluding taxes.	
	Indian Mark -II Hand Pump Assembly Set	10900
8	Labour charges for erection of IM-II Hand Pump Assembly with all its accessories and with the required number of 32mm dia CI-13 GI pipes including all taxes and as per the directions of the department officers but excluding taxes.	
	For Plain area	1000
	For Agency area	10% over plain area rates.
9	Casing Pipes and Bore caps excluding taxes	
	Cost and supply of 175 mm dia PVC blue casing pipe per RN3	1100
	Slotting charges for 175 mm dia PVC blue casing pipe per RM	350
	180 mm dia PVC Casing pipe perforation charges per RM	325
	175 mm dia MS Casing pipe perforation charges per RM	395
	Supply & Fixing of 180 mm dia PVC Bore Cap per 1No	300
10	Geological Survey Charges excluding taxes.	
	for plain area-nob	1200
	for Agency area-Uob	10% over plain area rates.
11	32mm dia GI B-Class pipes per RM	
	for 32mm dia GI B-Class pipes per RM	400

GOVERNMENT OF ANDHRA PRADESH



BUILDINGSSoR: 2020-21

SCHEDULE OF RATES FOR BUILDINGS WORKS

FOR THE YEAR 2020-21

**ALL ENGINEERING
DEPARTMENTS**

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

Procs.No. 20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2019, Dt. 20.07.2020

Sub:- Printing of Buildings-SoR for all the Engineering Departments specific to the functioning of Building works – Buildings-SoR:2020-21 – 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 12.12.2019,05.03.2020,02.06.2020 and 25.06.2020

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: 2020-21 in the Minutes of Meeting held on Dt.25.06.2020.

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-2020-21 remain applicable.

The Heads of Departments mentioned below are authorized to print the Buildings-SoR: 2020-21 and unauthorized printing & selling of the Buildings-SoR is strictly prohibited.

The Buildings SoR 2020-21 will come into force along with common SoR from the date decided by the BoCE.

The receipt of the proceedings may please be acknowledged.

Enclosed: Buildings SoR: 2020-21 as above

Sd/.... K.Nayeemulla,

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

To

1) Engineer-In-Chief, Public Health Engineering, Member, Flat No.504 &601, Garuda Enclave, Tadepalli, Guntur-522501.

2) Engineer-In-Chief, Panchayathraj, Member, Administration, PMGSY, APRRP-AIIB, VQC, ZP compound, opp PWD Grounds, MG Road, Vijayawada - 520002.

- 3)Engineer-In-Chief,Tribal Welfare , Member, D.No.40-6-22A, Kandhari Hotel Road, Adjacent to Southern Spice, Revenue Colony, Vijayawada-520010.
- 4) Chief Engineer, A.P. Housing Board, Member,D.No. 5-21, Prasadampadu, Elururoad, Vijayawada -521108
- 5)Chief Engineer, A.P.Housing Corporation, S.P's river view apartments, 2nd floor, Tadepalli , Amaravati-522501..
- 6) Chief Engineer, APSRTC,RTC House, 1st Floor of PNBS,Vijayawada.
- 7) Chief Engineer, A.P. Medical Services and Infrastructure Development Corporation, Member, Autonagar, Mangalagiri, 522503. Andhrapradesh
- 8) Chief Engineer, Police Housing Corporation, AP, Member, Tadepalli, Vijayawada
- 9) Chief Engineer (R&B) Electrical, Member, M.G.Road, Vijayawada.
- 10)Chief Engineer, Civil TTD, Member, Administrative Building, KT Road, Tirupathi, 517501 -AP.
- 11)Chief Engineer, O/o Vijayawada Municipal Corporation, Canal road, Krishnalanka, Vijayawada ,520001A.P.

Copy to

1. The Engineer-in-Chief (Admn , NH&CRF , RDC), R&B Department, M.G road, Vijayawada.
2. The Chief Engineer (QC), R&B Department, M.G road , Vijayawada .
3. The Chief Engineer (COT), 76-16-4A/1,1st floor, Iron Yard, Opp. to Ramayalam, Gollapudi, Vijayawada-520012.
4. The Chief Engineer, APRSCL, D.No.5-21, Hostel Road, Prasadampadu, Vijayawada-521108.
5. The Chief Engineer, APEWIDC, Door No.9-76 ,Sai fortune Heights , Block A, Vaddeswaram Village, Guntur District - 522 502.

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BUILDINGS SoR:2020-21

(Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)

PREAMBLE

1.0 INTRODUCTION

The Government have issued orders vide . G.O.Rt.No.95, T, R&B (R.1Buildings) 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 (Civil,Water Supply & SanitaryandElectrical and Electro-Mechanical items). The meeting of the above "SoR Committee for Buildings (Civil, Water Supply & Sanitary, Electrical and Electro-Mechanical items)" was convened several times during the year 2020 and finalized on 25.06.2020 with an objective to finalize and release the Buildings-SoR: 2020-21.

2.0 APPLICABILITY OF COMMON SoR – 2020-21

The rates of labour, common materials & work items, Public Health items, conveyance rates of materials &hire charges approved and published in Common SoR-2020-21 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 all original works and major Renovation 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 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 is replaced with GST wef 01.07.2017. The rates arrived in this SoR are only basic rates which are exclusive of all taxes. However, as per the suggestion of BoCE, the provision towards Works Contract Tax as per applicable GST rates 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, Electrical and Electro-Mechanical items of building works shall be allowed wherever applicable as per the guidelines and preamble of Common SoR: 2020-21. 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, Electrical and Electro-Mechanical items of building works may be allowed on specific recommendation from such Area Development Authorities.
2. Wherever the concrete pump is used in the data, 8 working hours per day can be considered for rate analysis purpose.
3. 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.
4. Certain items in the SoR are deleted due to change in the specification, non-availability in the market etc
5. 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-2020-21.
6. 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).
7. No allowance towards 'Labour Importation & Labour Amenities' shall be added to the data as they are included in the provision of 'Over heads and contractor's profit'.
8. For sand, gravel, murum, stones, coarse 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.
9. For all the materials, the basic rates given in the Buildings SoR are 'landing prices' at the site which are exclusive of all taxes, except where mentioned specifically.
10. 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. Loading and unloading charges are not payable for conveyance by head load.
16. Loading and unloading charges are not payable for conveyance by mechanical means, for disposal of excavated material unless specified.
17. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone, are inclusive of stacking wherever applicable.
18. 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.
19. Unless otherwise specified, all material rates shall be exclusive of all taxes, duties, levies, royalty/seigniorage, transportation, handling costs up to project area, and also the 'Works Contract Tax'.
20. Any errors, omissions, corrections or suggestions shall be brought to the notice of the 'COMMITTEE OF THE CHIEF ENGINEERS (Buildings SoR)' for corrective action.
21. 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.
22. 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'.
23. 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 .
24. The technical specifications and the rates of the corresponding items given in the SoR 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: 2020-21 (Civil & Electrical) has met in the chambers of Chief Engineer (R&B) Buildings & RSW, several times during the year 2020 and approved the Buildings SoR:2020-21, without any tax elements based on the representations received from various Engineering Departments. As per the suggestion of BoCE, 12% GST rate on the Estimate Contract Value (ECV) towards works contract shall be provided in Part-B of the estimate during preparation of estimates.
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 Technical Specifications and Rates adopted in the estimates.
4. The committee has resolved to amend the Standard Data / Clarification with the following Admendments:
 - a) Proc. No. 20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2019, dt: 14.05.2019

BUILDING ITEMS

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		A.SECTION	BRICKS & BUILDING BLOCKS (ex-quarry price - excluding cost of conveyance, loading & unloading)		
		I. SUB-SECTION	ORDINARY CLAY BRICKS		
1	MAT-00721	BMT-A.01	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Non-Modular of traditional size 23 x 11 x 7 cm	1000 Nos	6000
2	MAT-00748	BMT-A.02	Common burnt clay bricks of class as per Table-1 of IS:1077-1992 Modular of traditional size 19 x 9 x 9 cm	1000 Nos	6750
		II. SUB-SECTION	FLY-ASH CEMENT/LIME SOLID BLOCKS (ex-quarry price - excluding cost of conveyance, loading & unloading)		
3	MAT-00749	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	MAT-00750	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	22
5	MAT-00751	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	MAT-00752	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	15
7	MAT-00753	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	8
8	MAT-00754	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	16
9	MAT-00755	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	MAT-00756	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	Each	24

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			140 mm		
11	MAT-00757	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	20
12	MAT-00758	BMT-A.12	Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 - Fly ash cement/ lime solid blocks with compressive strength of 50 kg/sq.cm - IS:12894-1990 - CLASS - 5 -290 x 150 x 140 mm	Each	21
13	MAT-00759	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	MAT-00760	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	6
15	MAT-00761	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	MAT-00762	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	MAT-00763	BMT-A.17	Supply of well burnt cinder aggregates as per IS: 2686-1977	1 Cum	614
		III. SUB-SECTION	AUTOCLAVED CONCRETE BLOCKS <i>(landing cost - including cost of conveyance, loading & unloading)</i>		
			Supply of Aerated (Cellular) Autoclaved Concrete Blocks conforming to IS:2185 (Part-3) - 1984 and IS:6441-1972 of Compressive strength 3 N/mm²		
18	MAT-00764	BMT-A.18	600 x 200 x 100 mm	Each	47
19	MAT-00765	BMT-A.19	600 x 200 x 150 mm	Each	69
20	MAT-00766	BMT-A.20	600 x 200 x 200 mm	Each	93
21	MAT-00767	BMT-A.21	600 x 200 x 230 mm	Each	106
22(a)	MAT-05337	BMT-A.22	Supply of Cement based, Polymer modified Pre-mixed dry jointing mortar for laying AAC Blocks – Masonry Glue 110 or equivalent	1Kg	14
22(b)		BMT-A.23	Supply of Cement based, Polymer	1Kg	12

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			modified Pre-mixed bonding coat for plastering on smooth concrete/masonry surfaces.		
22(c)		BMT-A.24	Supply of Cement based, Polymer modified Pre-mixed dry plastering mortar for plastering walls, columns, ceilings.	1Kg	9
22(d)		BMT-A.25	Supply of Cement based, Polymer modified Pre-mixed dry mortar for fixing tiles on walls & floors	1Kg	14
		B.SECTION	NATURAL FLOORING STONES (ex-quarry price – excluding cost of conveyance, loading & unloading)		
		I.SUB-SECTION	LOCALLY AVAILABLE FLOORING STONES		
23	MAT-00768	BMT-B.01	Kadapa slab 40 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	96
24	MAT-00769	BMT-B.02	Kadapa slab 50 mm thick and size not less than 0.457 M x 0.457 M	1 Sqm	110
25	MAT-00770	BMT-B.03	Shahabad /Tandur Rough Stone slabs of minimum of 25 mm thick	10 Sqm	956
26	MAT-00771	BMT-B.04	Shahabad / Tandur Rough Stone slabs of minimum 40 mm thick	10 Sqm	1232
27	MAT-00772	BMT-B.05	Polished Shahabad/ Tandur stone slabs of 15 to 18 mm thick	10 Sqm	1610
28	MAT-00773	BMT-B.06	Polished black Kadapa slabs minimum of 15 mm thick (0.457x0.457M)	10 Sqm	1343
29	MAT-00774	BMT-B.07	Polished Bethamcherla pure (marble type) white stone minimum 25 mm thick (0.254Mx0.254M)	10 Sqm	3834
30	MAT-00775	BMT-B.08	Polished Bethamcherla coloured stone minimum 25 mm thick (0.254M x0.254M)	10 Sqm	2683
31	MAT-00784	BMT-B.17	Polished black Kadapa slabs of all sizes between 25 - 30 mm thickness	10 Sqm	1540
		II.SUB-SECTION	NATURAL FLOORING STONES - MARBLE		
32	MAT-00779	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	648
33	MAT-00780	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	524
34	MAT-00781	BMT-B.14	Polished Marble slabs of any variety and	1 sqm	889

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			gang saw cut (Such as Dongari/ Adanga/ Marodh/ Rajgangpur etc) 16 mm to 20 mm (average) thick (0.610 M width of any length)		
35	MAT-00782	BMT-B.15	Polished Marble Tiles of 8 - 10 mm thickness of all sizes and varieties	1 sqm	424
		III.SUB-SECTION	NATURAL FLOORING STONES - GRANITE		
36	MAT-00776	BMT-B.09	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black/ premium colours	1 Sqm	2695
37	MAT-00777	BMT-B.10	High Polished Granite 16 to 18 mm thick up to 2.43 M other than black and regular colours	1 Sqm	2342
38	MAT-00778	BMT-B.11	High Polished Granite 16 to 18 mm thick up to 2.43 M black	1 Sqm	1991
39	MAT-00783	BMT-B.16	Granite stone tiles 8 mm thick (mirror polished of all shades)	1 sqm	1005
		C.SECTION	WALL & FLOOR TILES (Landing cost – including loading, cost of conveyance, unloading)		
		I.SUB-SECTION	NON-PORCELAIN CERAMIC FLOOR TILES		
40	MAT-00785	BMT-C.01	Supply of Non-skid red or white full body Ceramic floor tiles of Size 300 mm x 300 mm and thickness between 7-8 mm and 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	370
41	MAT-00786	BMT-C.02	Supply of Non-skid red or white full body Ceramic floor tiles of Size 450 mm x 450 mm and thickness between 7-8 mm and 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	374
42	MAT-00787	BMT-C.03	Supply of Non-skid red or white full body Ceramic floor tiles of Size 600 mm x 600 mm and thickness between 8-10 mm and 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	484
43	MAT-00788	BMT-C.04	Supply of Non-skid red or white full body Ceramic floor tiles of Scratch free-stain free and scratch free-nano finish of Size 600 mm x 600 mm and thickness	1 Sqm	508

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			between 8-10 mm and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs		
		II. SUB-SECTION	PORCELAIN VITRIFIED FLOOR TILES		
44	MAT-00789	BMT-C.05	ITEM DELETED		
45	MAT-00790	BMT-C.06	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	418
46	MAT-00791	BMT-C.07	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	421
47	MAT-00792	BMT-C.08	ITEM DELETED		
			Supply of Double charged / multi charged stain free full body porcelain vitrified tiles with double layer pigment of 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs		
48	MAT-00793	BMT-C.09	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 and 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	612
49	MAT-00794	BMT-C.10	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 and 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	1 Sqm	758
50	MAT-00795	BMT-C.11	ITEM DELETED		
51	MAT-00796	BMT-C.12	Supply of digital / polished glazed full	1	718

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			body porcelain vitrified tiles with any type of design texture such as marble finish, wooden, bamboo, stone finishes etc., scratch less, stain free and Size 800 x 800 mm and thickness between 9-11 mm of 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs	Sqm	
52	MAT-00797	BMT-C.13	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 Size 900 x 900 mm and thickness between 9-11 mm of 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	924
52(a)		BMT-C.13(a)	Supply of glazed vitrified tiles with matt finish of size 600 x600mm and thickness between 9-10 mm 1st quality confirming to IS: 13711,IS: 13712,IS: 13630 (Parts 1 to 15) of any colour and finish in all shades and designs .	1 Sqm	818
53 to 59		BMT-C.14 to BMT-C.20	ITEMS DELETED		
		III.SUB-SECTION	CERAMIC WALL TILES		
60	MAT-00805	BMT-C.21	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 and 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	323
61	MAT-00806	BMT-C.22	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 and 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	396
62	MAT-00807	BMT-C.23	Supply of glazed red or white full body ceramic wall tiles of Size 300 x 600 mm and thickness between 6-8 mm and 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	538
		IV.SUB-	PORCELAIN WALL TILES		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		SECTION			
63	MAT-00808	BMT-C.24	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	554
64	MAT-00809	BMT-C.25	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	556
65	MAT-00810	BMT-C.26	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	564
66	MAT-00811	BMT-C.27	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	612
67	MAT-00812	BMT-C.28	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	726
68 to 70		BMT-C.29 to BMT-C.31	ITEMS DELETED		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
71	MAT-00816	BMT-C.32	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	294
72	MAT-00817	BMT-C.33	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	149
73	MAT-00818	BMT-C.34	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	295
74	MAT-00819	BMT-C.35	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	157
75	MAT-00820	BMT-C.36	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	591
76	MAT-00821	BMT-C.37	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	298
		V.SUB-SECTION	GLASS MOSAIC TILES		
77 to 79		BMT-C.38 to BMT-C.40	ITEMS DELETED		
		VI.SUB-SECTION	WALL CLADDING TILES		
80	MAT-00825	BMT-C.41	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	527
81	MAT-00826	BMT-C.42	Supply of glazed red or white full body ceramic tiles for external cladding	1 Sqm	422

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
82	MAT-00827	BMT-C.43	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	437
83	MAT-00828	BMT-C.44	ITEM DELETED		
		D.SECTION	PAVING & INTERLOCKING TILES		
		I.SUB-SECTION	TERRAZO FLOOR TILES (PLAIN & CHEQUERED) <i>(landing cost - including cost of conveyance, loading & unloading)</i>		
84	MAT-00829	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	266
85	MAT-00830	BMT-D.02	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	257
86	MAT-00831	BMT-D.03	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	272
		II.SUB-SECTION	CEMENT CONCRETE FLOOR TILES (PLAIN & CHEQUERED)		
87	MAT-00832	BMT-D.04	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	241
88	MAT-00833	BMT-D.05	Supplying Chequered Cement Concrete heavy duty tiles conforming to IS:	1 Sqm	252

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			13801 using aggregates, cement, pigments of size 300 x 300 mm and thickness 20 mm of any shades.		
89	MAT-00834	BMT-D.06	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	257
90	MAT-00835	BMT-D.07	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	269
91	MAT-00836	BMT-D.08	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	280
92	MAT-00837	BMT-D.09	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	288
93	MAT-00838	BMT-D.10	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	419
94	MAT-00839	BMT-D.11	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	440
		III.SUB-SECTION	PRE-CAST CONCRETE BLOCKS FOR PAVING		
95	MAT-00840	BMT-D.12	Supply of precast concrete blocks for paving of M-30 grade and thickness not less than 50 mm for Non-traffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification	1 Sqm	273
96	MAT-00841	BMT-D.13	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	311

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
97	MAT-00842	BMT-D.14	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	443
98	MAT-00843	BMT-D.15	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	488
99	MAT-00844	BMT-D.16	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	555
100		BMT-D.17	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	178
		IV..SUB-SECTION	VINYL FLOORING		
101	MAT-05338	BMT-D.18	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	720
102	MAT-05339	BMT-D.19	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	452
103	MAT-05340	BMT-D.20	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	327
		E.SECTION	TIMBER & ROOFING MATERIALS (Landing cost – including cost of		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<i>conveyance, loading & unloading)</i>		
			<i>Note: Before proposing the Teak Wood Items, the estimating authorities shall obtain prior approval from the competent authority</i>		
		I.SUB-SECTION	MEDIUM TEAK WOOD		
104	MAT-00846	BMT-E.01	Medium Teak Wood scantlings: up to 2.0 M	1 cum	71195
105	MAT-00847	BMT-E.02	Medium Teak Wood scantlings: 2.0 to 3.0 M	1 cum	79106
106	MAT-00848	BMT-E.03	Medium Teak Wood scantlings: above 3.0 M	1 cum	87017
107	MAT-00849	BMT-E.04	Medium Teak Wood Plancks: any thickness	1 cum	142391
		II.SUB-SECTION	BEST TEAK WOOD		
108	MAT-00850	BMT-E.05	Best Teak Wood scantlings: up to 2.0 M	1 cum	122614
109	MAT-00851	BMT-E.06	Best Teak Wood scantlings: 2.0 to 3.0 M	1 cum	130525
110	MAT-00852	BMT-E.07	Best Teak Wood scantlings: above 3.0 M	1 cum	138436
111	MAT-00853	BMT-E.08	Best Teak Wood Plancks: any thickness	1 cum	154257
		III.SUB-SECTION	BURMA TEAK WOOD		
112	MAT-00854	BMT-E.09	Burma Teak Wood scantlings: up to 2.0 M	1 cum	168485
113	MAT-00855	BMT-E.10	Burma Teak Wood scantlings: 2.0 to 3.0 M	1 cum	173298
114	MAT-00856	BMT-E.11	Burma Teak Wood scantlings: above 3.0 M	1 cum	182272
115	MAT-00857	BMT-E.12	Burma Teak Wood Plancks: any thickness	1 cum	197369
		IV.SUB-SECTION	ASSAM TEAK WOOD		
116	MAT-00858	BMT-E.13	Assam Teak Wood scantlings: any length	1 cum	45166
117	MAT-00859	BMT-E.14	Assam Teak Wood Plancks: any thickness	1 cum	65493
		V.SUB-SECTION	SAL/ COUNTRY WOOD		
118	MAT-00860	BMT-E.15	Sal Wood scantlings: any length	1 cum	46217
119	MAT-00861	BMT-E.16	Sal Wood Plancks: any thickness	1 cum	58690

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		VI.SUB-SECTION	ROOFING MATERIAL		
120	MAT-00862	BMT-E.17	A.C sheet Corrugated 6 mm thick	1 sqm	204
121	MAT-00863	BMT-E.18	A.C sheet plain 4 mm thick	1 sqm	146
122	MAT-00864	BMT-E.19	A.C sheet plain 6 mm thick	1 sqm	152
123	MAT-00865	BMT-E.20	Plain or Corrugated Galvanized iron sheets as per IS 277 (0.1 mm to 0.8 mm thickness)	1 kg	62
124	MAT-00866	BMT-E.21	Supply of UV resistant multi-wall polycarbonate sheets for roofing of any colour - 6 mm thick	1 Sqm	1147
125	MAT-00867	BMT-E.22	Aluminium universal glazing set 40 mm wide for jointing and fixing polycarbonate sheets	1 RM	109
126	MAT-05341	BMT-E.23	Supply of UV resistant multi -wall polycarbonate sheets for roofing of any colour -10 mm thick.	1 Sqm	1300
		F.SECTION	STEEL MATERIALS (<i>Landing cost – including loading, cost of conveyance, unloading</i>)		
		I.SUB-SECTION	MILD STEEL MATERIALS		
127	MAT-00895	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	3198
128	MAT-00896	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	1 Sqm	2798

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
129	MAT-00875	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	131
130	MAT-00876	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	131
131	MAT-00877	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	131
132	MAT-00878	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	178
133	MAT-00879	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	178
134	MAT-00880	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	178
135	MAT-00881	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	203
136	MAT-00882	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	203
137	MAT-00883	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	203
138	MAT-00894	BMT-F.28	Rabbit wire mesh (chicken mesh) of not less than 30 gauge	1 Sqm	17
139	MAT-00869	BMT-F.02	Country Nails	1 Kg	58
140	MAT-00870	BMT-F.03	Wire Nails	1 Kg	58
141	MAT-00871	BMT-F.04	Mild Steel Tubes & pipes of all diameters as per IS-1161	1 Kg	60

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		II.SUB-SECTION	GALVANIZED STEEL MATERIALS		
142	MAT-00873	BMT-F.07	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type A - IOWA Type Designation as per standard specification	1 Kg	81
143	MAT-00874	BMT-F.08	Supplying Galvanized Steel Barbed wire conforming to IS 278 - 1978 : Type B - Glidden Type Designation as per standard specification	1 Kg	79
144	MAT-00884	BMT-F.18	Galvanized Iron fly proof wire mesh of not less than 20 gauge	1 Sqm	220
145	MAT-00886	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	404
146	MAT-00887	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	360
147	MAT-00888	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	316
148	MAT-00889	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	223
149	MAT-00890	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	536
150	MAT-00891	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	445
151	MAT-00892	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	367
152	MAT-00893	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	286
		III.SUB-SECTION	STAINLESS STEEL MATERIALS		
153	MAT-00872	BMT-F.06	Stainless Steel Tubes, sections, plates, sheets & pipes of all sizes & diameters	1 Kg	331

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			for - 304 Grade		
154	MAT-00885	BMT-F.19	Stainless steel fly proof wire mesh of not less than 20 gauge	1 Sqm	446
155 to 163		BMT-F.32 A to H	ITEM DELETED		
		Note: Items BMT-F.01 , BMT-F.31 are removed in the section F and are brought as new items in the Section N as BMT-N.80 and BMT-N.81.			
		G.SECTION	FIXTURES FOR DOORS & WINDOWS		
		I.SUB-SECTION	TOWER BOLTS		
164	MAT-00906	BMT-G.01	Brass Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	150
165	MAT-00907	BMT-G.02	Brass Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	231
166	MAT-00908	BMT-G.03	Brass Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	317
167	MAT-00909	BMT-G.04	Brass Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	365
168	MAT-00910	BMT-G.05	Brass Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	449
169	MAT-00911	BMT-G.06	Aluminium Tower Bolt-10 mm Bolt (IS:204) 75 mm Long	Each	56
170	MAT-00912	BMT-G.07	Aluminium Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	69
171	MAT-00913	BMT-G.08	Aluminium Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	84
172	MAT-00914	BMT-G.09	Aluminium Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	103
173	MAT-00915	BMT-G.10	Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	124
174	MAT-00916	BMT-G.11	Aluminium Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	144
175	MAT-00917	BMT-G.12	Aluminium Tower Bolt-10 mm Bolt (IS:204) 350 mm Long	Each	387
176	MAT-00918	BMT-G.13	Aluminium Tower Bolt-10 mm Bolt (IS:204) 450 mm Long	Each	490
177	MAT-00919	BMT-G.14	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 100 mm Long	Each	24
178	MAT-00920	BMT-G.15	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 150 mm Long	Each	35
179	MAT-00921	BMT-G.16	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 200 mm Long	Each	51

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
180	MAT-00922	BMT-G.17	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 250 mm Long	Each	68
181	MAT-00923	BMT-G.18	MS-Powder Coated Tower Bolt-10 mm Bolt (IS:204) 300 mm Long	Each	85
		II.SUB-SECTION	HINGES		
182	MAT-00924	BMT-G.19	Brass Butt hinges (IS:205)- 75 mm Long	Each	67
183	MAT-00925	BMT-G.20	Brass Butt hinges (IS:205)- 100 mm Long	Each	203
184	MAT-00926	BMT-G.21	Brass Butt hinges (IS:205)- 125 mm Long	Each	246
185	MAT-00927	BMT-G.22	Brass Butt hinges (IS:205)- 150 mm Long	Each	324
186	MAT-00928	BMT-G.23	Aluminium Butt hinges (IS:205)- 75 mm Long	Each	81
187	MAT-00929	BMT-G.24	Aluminium Butt hinges (IS:205)- 100 mm Long	Each	97
188	MAT-00930	BMT-G.25	Aluminium Butt hinges (IS:205)- 125 mm Long	Each	117
189	MAT-00931	BMT-G.26	Aluminium Butt hinges (IS:205)- 150 mm Long	Each	120
190	MAT-00932	BMT-G.27	MS-Powder Coated Butt hinges (IS:205)- 75 mm Long	Each	11
191	MAT-00933	BMT-G.28	MS-Powder Coated Butt hinges (IS:205)- 100 mm Long	Each	20
192	MAT-00934	BMT-G.29	MS-Powder Coated Butt hinges (IS:205)- 125 mm Long	Each	31
193	MAT-00935	BMT-G.30	MS-Powder Coated Butt hinges (IS:205)- 150 mm Long	Each	39
194		BMT-G.80	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.		
195	MAT-05342	BMT-G.80.A	200 x 19 x 1.9 mm	Each	270
196	MAT-05343	BMT-G.80.B	250 x 19 x 1.9 mm	Each	300
197	MAT-05344	BMT-G.80.C	300 x 19 x 1.9 mm	Each	317
198	MAT-05345	BMT-G.80.D	350 x 19 x 1.9 mm	Each	438
199	MAT-05346	BMT-G.80.E	400 x 19 x 1.9 mm	Each	461
		III.SUB-SECTION	DOOR HANDLES		
200	MAT-00936	BMT-G.31	Aluminium Door Handles (IS:208) 75	Each	54

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			mm Long		
201	MAT-00937	BMT-G.32	Aluminium Door Handles (IS:208) 100 mm Long	Each	62
202	MAT-00938	BMT-G.33	Aluminium Door Handles (IS:208) 125 mm Long	Each	92
203	MAT-00939	BMT-G.34	Aluminium Door Handles (IS:208) 150 mm Long	Each	103
204	MAT-00940	BMT-G.35	MS-Powder Coated Door Handles (IS:208) 125 mm Long	Each	32
205	MAT-00941	BMT-G.36	MS-Powder Coated Door Handles (IS:208) 150 mm Long	Each	45
206	MAT-00963	BMT-G.58	Brass fancy handles 150 mm	Each	299
207	MAT-00964	BMT-G.59	Brass fancy handles 200 mm	Each	404
208	MAT-00965	BMT-G.60	Brass fancy handles 250 mm	Each	728
209	MAT-00966	BMT-G.61	Brass fancy handles 300 mm	Each	930
210	MAT-00967	BMT-G.62	Brass fancy handles 450 mm	Each	1454
211	MAT-00977	BMT-G.72	Keyless lockset for toilet doors with CP or PC knob handles (complete set)	Each	310
212	MAT-00978	BMT-G.73	Keyless lock set for toilet doors with brass knob handles	Each	819
213	MAT-05347	BMT-G.81	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc.complete.	Each	187
		IV..SUB-SECTION	ALDROPS		
214	MAT-00942	BMT-G.37	Brass Aldrop (IS:2681) 300 mm long	Each	1087
215	MAT-00943	BMT-G.38	Brass Aldrop (IS:2681) 350 mm long	Each	2094
216	MAT-00944	BMT-G.39	Brass Aldrop (IS:2681) 450 mm long	Each	2982
217	MAT-00945	BMT-G.40	Aluminium Aldrop (IS:2681) 200 mm long	Each	240
218	MAT-00946	BMT-G.41	Aluminium Aldrop (IS:2681) 250 mm long	Each	284
219	MAT-00947	BMT-G.42	Aluminium Aldrop (IS:2681) 300 mm long	Each	308
220	MAT-00948	BMT-G.43	MS-Powder Coated Aldrop (IS:2681) 200 mm long	Each	98
221	MAT-00949	BMT-G.44	MS-Powder Coated Aldrop (IS:2681) 250 mm long	Each	129
222	MAT-00950	BMT-G.45	MS-Powder Coated Aldrop (IS:2681) 300 mm long	Each	154
		V..SUB-	LATCHES		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		SECTION			
223	MAT-00953	BMT-G.48	Aluminium Flat Latches: 200 mm long	Each	117
224	MAT-00954	BMT-G.49	Aluminium Flat Latches: 250 mm long	Each	131
225	MAT-00955	BMT-G.50	Aluminium Flat Latches: 300 mm long	Each	144
226	MAT-00956	BMT-G.51	MS-Powder Coated Flat Latches: 250 mm long	Each	55
227	MAT-00957	BMT-G.52	MS-Powder Coated Flat Latches: 300 mm long	Each	70
228	MAT-00973	BMT-G.68	Brass latch heavy 300 mm	Each	573
229	MAT-00974	BMT-G.69	Brass latch heavy 350 mm	Each	658
230	MAT-00975	BMT-G.70	Brass latch heavy 450 mm	Each	826
		VI.SUB-SECTION	DOOR CLOSURES		
231	MAT-00968	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	876
232	MAT-00979	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	1065
233	MAT-00980	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	1197
234	MAT-00981	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	1256
		VII.SUB-SECTION	FLOOR SPRINGS		
235	MAT-00969	BMT-G.64	Double action Stainless steel cover plate and cast body iron floor spring (IS 6315- Table-1)	Each	1751
236	MAT-00970	BMT-G.65	Double action Brass cover plate and cast brass body floor spring (IS 6315-	Each	4153

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			Table-1)		
237	MAT-00982	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	3537
238	MAT-00983	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	2555
239	MAT-00984	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	10805
		VIII	MORTICE LOCKS		
240	MAT-00971	BMT-G.66	Heavy duty mortise lock 6/7 levers (IS:2209) with PC or CP handles complete set	Each	792
241	MAT-00972	BMT-G.67	Heavy duty mortise lock 6/7 levers (IS:2209) with brass heavy handles	Each	2036
		IX.SUB-SECTION	OTHER ACCESSORIES		
242	MAT-00958	BMT-G.53	MS-Powder Coated - Door Stoppers	Each	45
243	MAT-00962	BMT-G.57	Heavy duty Aluminium Door stopper	Each	53
244	MAT-00951	BMT-G.46	Brass Door Stoppers	Each	168
245	MAT-00976	BMT-G.71	Friction stay hinges for windows	Each	91
246	MAT-00961	BMT-G.56	Deluxe window stay Aluminium	Each	122
247	MAT-00952	BMT-G.47	Brass Windows Stay	Each	181
248	MAT-00959	BMT-G.54	Supply & fixing drapery rods (25.4 mm) 1" x 21 G Powder coated with PVC rings	RM	108
249	MAT-00960	BMT-G.55	Supply & fixing drapery bracket - brass powder coated	pair	402
250	MAT-05348	BMT-G.82	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. Complete	Each	154

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
251	MAT-05349	BMT-G.83	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	Each	88
252	MAT-05350	BMT-G.84	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.	Each	140
253	MAT-05351	BMT-G.85	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	Each	167
		H.SECTION	WATER PROOFING CHEMICALS & ADMIXTURES <i>Literature for usage / application of construction / water proofing materials, epoxies etc, may be obtained from manufacturers.</i>		
254 to 318 except 272		BMT-H.01 to 65 except BMT-H.37	ITEMS DELETED		
272	MAT-01021	BMT-H.37	Anti corrosion CRPPC (Corrosion Resistant) inhibitive admixture. Note: The user departments who ever are preparing the estimate, have to satisfy themselves with the performance and result of the product before proposing the item.)	1Lt.	315
319	MAT-05352	BMT-H. 66	Pre construction Anti termite is a process in which chemical toxic to subterrean termites is apply/ inject into soil during early stage of building Construction 2. Treatment of soil Beneath the building and around the foundations conduct and chemical use as per BIS - IS 6313 (Part -2) 2013 code specification & CIB RC registered termiticide which creates a continuous chemical barrier beneath the building which kills or repels terminates & impervious to tremite entry	1 Sqm	150
			3. Imidacloprid 30.5% SC (IS 63131) dissolve 2.1 MI/1 liter of water and apply emulsion/solution @ 7.5 Litres/Square meter (Sqm) of internal, external vertical surface of the colums , plinth beams (Back filling) walls and floor junction, external perimeters, along reatining wall @ 5.0 Liters/Sqm of the horizontal surface of basement top surface of the		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			basement filling below flooring bed (Plinth) & @ 2.0 Litres/ Line meter at expansion joints. The substructure of a depth of 500mm around coulmns & 300mm deep around plinth beams, basements & floor filling area including excavation channel along the wall & rodding etc. cost & Conveyance of all materials to the site, cost of labour for sparying, rodding etc. complete for furnished item of work as per the approval of the Engineer-in-charge		
320		BMT-H. 67	ITEM DELETED		
		I.SUB-SECTION	REPAIRING AND TREATMENT WORKS		
		BMT-H.68	SURFACE PREPARATION		
			Cleaning of the surface : For Waterproofing treatment		
321	MAT-05353	BMT-H.68.A	(If the surface is sound & hard Condition) The surface must be clean and sound duly removing of existiting tretaments clean from dirt, dust and other contaminations by power grinding wire brushing , air blower & jet water cleaing.	Sqm	60
322	MAT-05354	BMT-H.68.B	(If the surface is detoriated or damage / existing tiles or block laying) Chipping with pneumatic power chiseling equipment and until to ahcieve the hard mother concrete surface. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters & water jet cleaning.	Sqm	150
323	MAT-05355	BMT-H.68.C	if the surface has existing damaged bituminous felt / APP membrane. Chipping and removing of existing bituminous tarfelt / membrane with chiseling equipments, grinding / wire brusing the surface duly removing the felt completely. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters & water jet cleaning.	Sqm	100
			SPECIALISED CHEMICAL WATERPROOFING TREATMENTS FOR TERRACE		
			WHEREVER FLOORING SURFACE IS HAVING MAJOR HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			TAKEN PLACE AND REQUIRED TO REDUCE THE ROOM TEMPERATURES - SELF ASSESSED TREATMENTS TO IDENTIFY EACH LAYER OF TREATMENTS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS Item Code BMT-H.68 SURFACE PREPARATION SUB HEADING : CLEANING OF THE SURFACE FOR WATERPROOFING TREATMENT.		
324 (a)	MAT-05356	BMT-H.69	<p>SPECIALISED FIVE LAYER SYSTEM OF WATERPROOFING TREATMENT TO THE TERRACE WITH Roofcare-prc 5 Systems or equivalent (ROOFCARE PRC 5 (Armstrong) / ZORICOAT PFC 5 (PMCC)/ POWER SAC 5 L (EBT)/ WATERSHIELD 5 LWC</p> <p>a). Ist Layer Black coloured chemical treatment : Providing and application of one coat of High bonding, flexible bituminous polyurethane blended bituminous coating with – Roofcare prc 5 systems Confirming to ASTM-G 154 - 2000 or equivalent Ist Layer diluting with water at 1 : 1 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). IInd Layer : Providing and laying of Fibre Mesh 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c). IIIrd Layer Grey coloured coating : Providing and application of one coat of Acrylic rubberized elastomeric flexible waterproof grey coating with – Roofcare prc 5 systems ASTM-C 836 or equivalent or equivalent diluting with 50% of water at a consumption of 400ml per Sqm.</p> <p>d) IVth Layer white coloured coating : Providing and application of one coat of High solid, cold applied, Fibre reinforced acrylic elastomeric waterproof membrane off white coating –Roofcare prc 5 systems Confirming to ASTM-G 154 -2000 or equivalent coating (add the water upto 200ml) (Consumption of 350ml per Sqm).</p> <p>e) Vth Layer super white reflective coating : Application of one coat of 100% pure acrylic solar reflective pure white coating withRoofcareprc 5</p>	Sqm	529

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			systems Confirming to ASTM -C 297 or equivalent solar reflective coating diluting with 20% of water (Consumption of 300ml per Sqm). Note : THE ABOVE TREATMENT WILL BE GUARANTEED FOR 5 YEARS		
324 (b)		BMT-H.69 (b)	<p>SPECIALISED FIVE LAYER SYSTEM OF WATERPROOFING TREATMENT TO THE TERRACE WITH MIXGUARD HR5 System .</p> <p>Providing and laying five layers waterproofing cum heat reflective treatment (MIXGUARD HR5 or equivalent) over the old / new roof slab/ terrace, all as directed by Department Engineer-in-charge with the following specification and should be complain with the following technical parameters for the system - Density: 1.3 Gm/cc, Solids content: 68% ± 2% by weight, Elongation at break ASTM D 638: 200% (for the system), Adhesion to substrate ASTM D 4541: >1.5 N/mm², Water penetration DIN 1048: no leak at 7 bars, Tear resistance ASTM D 1004-76: 17N/mm², Tensile strength ASTM D 412-87:6.0N/mm²</p> <p>a) First Layer - Supply and Apply penetrative cum bonding primer as base primer cum sealer coat using MIXPRIME AC100 or equivalent modified with water and cement at the ratio 2:1:3 (MIXPRIME AC 100 : water : cement) by volume with a slow speed mixer machine. This compound shall be applied with sufficient thickness to cover the holes/pores/cracks @ 1.000 Liter / SQM (0.350 Lt of MIXPRIME AC100 / SQM) and the raw primer should be complain with ASTM 4541 and the Solid content 49% ±2%</p> <p>b) Second Layer – Supply and apply of 2 x 2 mm welded with alkaline resistant coated / non-woven 40 Gsm verging fiber mesh MIXMAT GFM 50 or equivalent for a minimum over lap of 100 mm embedded in the primer coat</p> <p>c) Third Layer - Supply and apply of bonding cum water tight acrylic high viscous white primer MIXPRIME AC or equivalent @ 0.250 Kg / SQM (dilution or modification not recommended) should be</p>	Sq.m	529

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<p>complain with Density: 1.1gm/cc, Solids content: 50 % ± 2% by weight, Elongation at break ASTM D 638: >300%, Adhesion to substrate ASTM D 4541: >1 N/mm², Tensile strength ASTM D 638: >1.5 N/mm², Reduction in chloride ion ingress: 94% @28 days</p> <p>d) Fourth Layer – Supply and apply of high elastomeric acrylic waterproofing cum weather proof high viscous white liquid membrane MIXGUARD HR or equivalent @ 0.500 Kg / SQM (dilution or modification not recommended) should be complain with Density: 1.30 gm/cc , Solids content: 68% ± 2% by weight, Elongation at break ASTM D 638: 400%, Tensile strength ASTM D 412: 1.8N/mm², Adhesion to substrate ASTM D 4541: >1 N/mm², Water penetration DIN 1048: no leak at 7 bars (+ve side), Water vapor transmission ASTM E96: 19g/m²/day, Crack bridging ASTM C836: No cracks up to 2mm thick.</p> <p>E) Fifth Layer - Supply and apply of fiber reinforced flexible high bride pure acrylic modified waterproofing cum heat reflective high viscous white liquid membrane MIXGUARD HRXtra or equivalent @ 0.500 Kg / SQM (dilution or modification not recommended)Density: 1.3 gm/cc Solids content: 68% ± 2% by weight, Elongation at break ASTM D 638: 200% , Adhesion to substrate ASTM D 4541: >1.3 N/mm², Water penetration DIN 1048: no leak at 7 bars, Tear resistance ASTM D 1004-76: 15N/mm² , Tensile strength ATM D 412-87: 3.0N/mm², Solar reflectance – ASTM G173 – 92 % , Water vapor transmission ASTM E 96 – 19 Kg / M² / day.</p> <p>Note: -</p> <p>1) No dilution or modification recommended for item No.b,c,d and e .</p> <p>2) All materials should be procured as per the consumption with respect of the work order.</p> <p>3) The application should be carried out by an approved agency.</p> <p>4) The contractor should provide 5 years material warrantee from the Manufacturer and 5 year warrantee from the applicator or combined</p>		
			WHEREVER FLOORING SURFACE IS		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			HAVING HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES AND FOUND VERY SLIGHTLY MORTAR DEBONDED WITH ORIGINAL SLAB - TAKEN PLACE : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS RAINSEAL FRC SPECIALISED HIGH STRENGTH FIBRE REINFORCED ACRYLIC ELASTOMERIC AND HEAT RESISTANT LIQUID MEMBRANE COATING CHEMICALS Confirmed ASTM C 836/89A & ASTM C 297 FOR TERRACE.		
325	MAT-05357	BMT-H.70	SPECIALISED HIGH STRENGTH CELLULOSE FIBRE REINFORCED ACRYLIC ELASTOMERIC LIQUID MEMBRANE COATING FOR TERRACE : a). Providing and application of one coat of High Solid, Cold applied Acrylic Elastomeric Liquid Membrane Coating with – RAINSEAL (Armstrong)/ POWER n COAT EWC (EBT) / DECKGUARD E 2000 (Fosroc) /ZORICOAT EWC (PMCC) / SIKAGARD 550 W / WATERSHIELD EWC 600 diluting with water at 1 : 0.50 ratio as a primer coat at a consumption of 200ml per Sqm. b). Providing and laying of Non woven polyster reinforced fibre mesh of 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface. c) Providing and application of one coat of High strength cellulose fibre reinforced Acrylic Elastomeric Liquid Membrane coating with -RAINSEAL CFR (Armstrong / ZORICOAT CF (PMCC) / POWER n COAT CR (EBT) WATERSHIELD FLEX CR / FIBRE REINFORCED ACRYLIC ELASTOMERIC COATINGS (Fosroc) diluting with water at 20% as a base coat application at a consumption of 400ml per Sqm.	Sqm	510
			WHEREVER FLOORING SURFACE IS HAVING HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES AND FOUND SOME PLACES MORTAR DEBONDED WITH ORIGINAL SLAB - TAKEN PLACE :		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS BMT-H.68 @ and BMT-H.83 chemical complies with ASTM C 297.		
326(a)	MAT-05358	BMT-H.71	<p>SPECIALISED HIGH PERFORMANCE ACRYLIC POLYMER MODIFIED ELASTOMERIC CEMENTITIOUS WATERPROOF COATING TO THE TERRACE</p> <p>a). Providing and application of one coat of High performance Acrylate penetrative water barrier primer – ROOFBOND BCS (Armstrong) / ZORIBOND BCS (PMCC) / POWER n PENETRATE (EBT) / WATERSHIELD CP / DECKGUARD CP (Fosroc) /SIKAGARD 705 L (Sika)diluting with water at 1 : 0.50 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). Providing and laying of Non woven polyester reinforced fibre mesh of 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c) Providing and application of one coat of Two part system of high performance acrylic polymer modified elastomeric cementitious waterproof coating ROOFBOND RFX (Armstrong) /POWER n COAT RFX (EBT) / BRUSHBOND RFX (Fosroc)/ZORIBOND RFX (PMCC) / WATERSHIELD RFX /SIKAGARD 550 U 2K (Sika) mixing of powder and liquid as per packing at 1:2 ratio. (add the water upto 200ml) at a consumption rate of 300 Grams mix.</p> <p>d). Providing and application of one coat of Two parts system fibre Reinforced Acrylic Cementitious Coatings with –ROOFBOND FRC (Armstrong) ZORIBOND FRC (PMCC) / POWER n BOND FRC (EBT)/ WATERSHIELD BOND FR / Fosroc mixing of powder and liquid as per packing at 1:2 ratio (add the water upto 200ml) at a consumption rate of 300 Grams mix.</p>	Sqm	475

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
326(b)		BMT-H.71(b)	<p>SPECIALISED HIGH PERFORMANCE ACRYLIC POLYMER MODIFIED ELASTOMERIC CEMENTITIOUS WATERPROOFING SYSTEM COATING TO THE WET AREA / TOILET / BATH ROOM .</p> <p>a) First Layer - Supply and Apply penetrative cum bonding primer as base primer cum sealer coat using MIXPRIME AC100 or equivalent modified with water and cement at the ratio 2:1:3 (MIXPRIME AC 100 : water : cement) by volume with a slow speed mixer machine. This compound shall be applied with sufficient thickness to cover the holes/pores/cracks @ 1.000 Liter / SQM (0.350 Lt of MIXPRIME AC100 / SQM) and the raw primer should be complain with ASTM 4541 and the Solid content 49% $\pm 2\%$</p> <p>b) Second Layer – Supply and apply of 2 x 2 mm welded with alkaline resistant coated / non-woven 40 Gsm verging fiber mesh MIXMAT GFM 50 or equivalent for a minimum over lap of 100 mm embedded in the primer coat</p> <p>c) Third Layer - Supply and apply of first coat of two component (Powder + Liquid) system of high performance acrylic polymer modified elastomeric cementitious waterproofing system MIXGUARD AC or equivalent @ 1.000 Kg / SQM (mix the powder and liquid with the help of a slow speed mixer for a period of 2 to 3 minutes up to get a homogeneous mix- dilution or modification not recommended) should be complain with BS 1881 Part 5 1983 (ISAT 476 Part 6), DIN 1048 Part 5 1991, BSEN 12390-8 2000, ASTM D 412-92</p> <p>d) Fourth Layer –Supply and apply of second coat of two component (Powder + Liquid) system of high performance acrylic polymer modified elastomeric cementitious waterproofing system MIXGUARD AC or equivalent @ 1.000 Kg / SQM (mix the powder and liquid with the help of a slow speed mixer for a period of 2 to 3 minutes up to get a homogeneous mix- dilution or modification not recommended) should be complain with BS 1881 Part 5 1983 (ISAT 476 Part 6), DIN 1048 Part 5 1991, BSEN 12390-8 2000, ASTM D 412-92.</p>	Sq.m	475

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<p>Note: -</p> <p>1) No dilution or modification recommended for item Nos.b,c,d and e .</p> <p>2) All materials should be procured as per the consumption with respect of the work order.</p> <p>3) The application should be carried out by an approved agency.</p> <p>4) The contractor should provide 5 years material warrantee from the Manufacturer and 5 year warrantee from the applicator or combined</p>		
327	MAT-05359	BMT-H.72	<p>WHREVER FLOORING SURFACE IS HAVING MAJOR HAIR LINE CRACKS DEVELOPED, SEVERE LEAKAGES TAKEN PLACE AND REQUIRED TO REDUCE THE ROOM TEMPERATURES - SELF ASSESSED TREATMENTS TO IDENTIFY EACH LAYER OF TREATMENTS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</p>	Sqm	540
			<p>a). Providing and application of one coat of High bonding, flexible bituminous polyurethane blended black coating with ROOFCARE PU (Armstrong) /POWER n COAT PU (EBT) / NITOBOND POLYURETHANE BLENDED BITUMEN COAT (Fosroc)/ZORICOAT PU (PMCC)/SIKALASTIC 450 L/WATERSHIELD ELASTIC 450 PU (Polyurethane blended Bituminous waterproof coating system) Complies with ASTM 836 - DN 1048 diluting with water at 1 : 1 ratio as a primer coat at a consumption of 200ml per Sqm.</p> <p>b). Providing and laying of Non woven GEO Fabric 40 GSM, with 1 Mtr width and 50mm overlap on the primed surface.</p> <p>c). Providing and application of one coat of Acrylic rubberized elastomeric flexible waterproof grey coating with – RAINSEAL RWC 902 (Armstrong) / POWER n COAT RC / ZORICOAT RC(PMCC) / (Fosroc) / WATERSHIELD RC FLEX Complies with ASTM G 154 - 2000 diluting with 50% of water at a consumption of 400ml per Sqm.</p> <p>d) Providing and application of one coat of High solid, cold applied, Fibre reinforced acrylic elastomeric waterproof membrane off white coating –</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			ROOFCOAT FRC (Armstrong) / ZORCOAT FC (PMCC) / POWER n FRX 2 (EBT) / WATERSHIELD FRC / DECKGUARD FRC (Fosroc)Complies with ASTM C 297 (add the water upto 200ml) (Consumption of 350ml per Sqm). e) Application of one coat of 100% pure acrylic solar reflective pure white coating with - ROOFCARE COOL (Insulator) / POWER n COOL (EBT) / BRUSHBOND COOL COAT (Fosroc)/ZORISHIELD XL (PMCC) / SIKA COOL COAT (Sika) //WATERSHIELD COOL COAT diluting with 20% of water (Consumption of 300ml per Sqm).		
			FOR WATERPROOFING OF PORTABLE WATER TANKS / RESERVOIRS / SUMP/ TERRACE / SIDE WALLS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS		
328	MAT-05360	BMT-H.73	SPECIALISED ACRYLIC CEMENTITIOUS ELASTOMERIC WATERPROOF COATING TREATMENT Complies with ASTM C 297 : Providing and Application of two coats of Acrylic cementitious elastomeric waterproof coating with- Roofcoat or equivalent like high elastomeric acrylic polymer modified cementitious waterproof system.	Sqm	350
			FOR WATERPROOFING OF TERRACE / SIDE WALLS : REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS		
329	MAT-05361	BMT-H.74	SPECIALISED ACRYLIC CEMENTITIOUS ELASTOMERIC WATERPROOF COATING TREATMENT Complies with ASTM C 297 : Providing and Application of two coats of Acrylic cementitious elastomeric waterproof coating with - ROOFCOAT (Armstrong) POWER n COAT (EBT)/ BRUSHBOND (Fosroc)ZORICOAT (PMCC)/SIKA TOPSEAL 107 (Sika) /	Sqm	390

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<i>WATERSHIELD COAT PC like high elastomeric acrylic polymer modified cementitious waterproof system.</i>		
			WHEREVER HIGH FLEXIBLE HIGH BONDED NECESSARY FOR WATERPROOFING OF TERRACE / SLOPED ROOFS / ACC SHEETS etc., FOR A GUARANTEE OF 5 YEARS REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS		
330	MAT-05362	BMT-H.75	<p>SPECIALISED HIGH SOLID, COLD APPLIED, ACRYLIC WATERPROOF COATING TO THE EXTERNAL WALLS Acrylic elastomeric waterproof exterior coatings Complies with ASTM C 836 / 89 A :</p> <p>Providing and application of two coats of High solid, cold applied, Acrylic Elastomeric Liquid Membrane Coating with –RAINSEAL (Armstrong)/ POWER n COAT EWC (EBT) / DECKGUARD E 2000 (Fosroc) /ZORICOAT EWC (PMCC) / SIKAGARD 550 W / WATERSHIELD EWC 600diluting with 20% of water mixing with required colour stainers.</p>	Sqm	390
			<i>WHEREVER REQUIRED FOR WATERPROOFING OF TERRACE / SLOPED ROOFS / ACC SHEETS etc., FOR A GUARANTEE OF 3 YEARS REFER THE RATES FOR CLEANING AND CRACK FILLING UNDER THE HEAD OF THE WORKS</i>		
331	MAT-05363	BMT-H.76	<p>SPECIALISED HIGH BONDING, FLEXIBLE BITUMINOUS POLYURETHANE BLENDED BITUMINOUS COATING Complies with ASTM C 836 - DN 1048 :</p> <p>Providing and application of two coats of High bonding, flexible bituminous polyurethane blended bituminous coating with ROOFCARE PU (Armstrong) / POWER n COAT PU (EBT) / NITOBOND POLYURETHANE BLENDED BITUMEN COAT (Fosroc)/ ZORICOAT PU (PMCC)/ SIKALASTIC 450 L / WATERSHIELD ELASTIC 450 PU diluting with 20% of water.</p>	Sqm	360

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			EXPANSION JOINT TREATMENT :		
332	MAT-05364	BMT-H.77	<p>Preparation of the surface : For existing expansion joint treatment :</p> <p>Chipping of the existing treatments over the expansion joints concrete / brick masonry with pneumatic power chiseling equipment and until to achieve the hard mother concrete surface. Chipping and removing of existing bituminous mastic board upto 25mm deep. Duly removing of debris, cleaning of the surface from dirt, dust and other foreign matters</p>	RMT	250
333	MAT-05365	BMT-H.78	<p>SPECIALISED POLYSULPHIDE SEALANT TREATMENT TO THE EXPANSION JOINTS ON TERRACE : (Size : 25mm x 12mm)</p> <p>Application of one coat of-High performance specially designed SBR latex polymer based bonding agent- ROOFBOND SBR (Armstrong) / POWER n BOND SBR (EBT) / NITOBOND SBR (Fosroc)ZORIBOND SBR (PMCC)/ SIKA LATEX (Sika) WATERSHIELD BOND SBRSTM - C 920 -95 /DIN 18549 TT -S-00227E or equivalent mixing with cement as per manufacturers c]. Providing and application of Acrylic Polymer modified reinstatement concrete/mortar admixture with - ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc to finish the damaged edges of joint and making the groove. d]. Providing and fixing of masking tape on top of the joint both sides. e]. Providing and fixing of Back up support material of Polyethelene foam to leave the depth of 12mm on the joint. f]. Providing and application of one coat of polysulphide primer with – Polysulphide primer on inner edge on joints. g]. Providing and application of Two part Polysulphide sealant to a width of 25mm and 12mm depth with - ROOFSEAL PS (Armstrong) / POWER n SEAL PS (EBT) /NITOSEAL PS 200 (Fosroc)/ ZORISEAL PS (PMCC) / SIKA</p>	RMT	650

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			POLYSULPHIDE (Sika) / WATERSHIELD PS Complies with BS 4254 - 83 or equivalent with putty knife and neat finish. h]. Removing of masking tape and providing and application of two coats of Acrylic elastomeric cementitious coating with - ROOFSEAL PS (Armstrong) / POWER n SEAL PS (EBT) / NITOSEAL PS 200 (Fosroc) / ZORISEAL PS (PMCC) / SIKA POLYSULPHIDE (Sika) / WATERSHIELD PS		
			FOR ARRESTING WATER FLOW LEAKAGES, LEAKAGES OF CONSTRUCTION JOINTS OF RESERVOIRS / PUMP ROOMS / POWER HOUSE / PENSTOCK / CANAL DUCTS AND OTHER WATER RETAINING STRUCTURES EXECUTION IN THE PRESENCE OF WATER.		
334	MAT-05366	BMT-H.79	<p>LABOUR CHARGES FOR SPECIALISED EXPANSIVE ACQUA-REACTIVE WATER BARRIER GROUTING</p> <p>(1). Drilling of holes with Electrical Drilling machine up to the required depth i.e., (12mm to 14mm dia sized holes)</p> <p>(2). Fixing of pressure retaining aluminum / steel packers fixing with Instant setting leakproof plugging compound WONDERSEAL PLUG (Armstrong) / POWER n PLUG (EBT) / RENDROC PLUG (Fosroc) / ZORIPLUG (PMCC) / SIKA PLUG (Sika) WATERSHIELD PLUG</p> <p>(3). Grouting of holes with Air Compressed Injection equipment with single component aliphatic polyurethane grout compound- RAPIDSTRONG GROUT PU (Armstrong) POWER n GROUT PU (EBT)/NITOFIL UR 60 WS 63 (Fosroc) / ZORIGROUT PU (PMCC)/ WATERSHIELD GROUT PU</p> <p>(4). After removing the pipes sealing of the holes with polymer putty – ROOFCRETE AR SYSTEMS (Armstrong) / ZORIGROUT CMG</p>	Each	250

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			(PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc with Cement.		
335	MAT-05367	BMT-H.80	Supply of chemicals for specialised expansive aqua reactive water barrier grout - RAPIDSTRONG GROUT PU (Armstrong) POWER n GROUT PU (EBT)/NITOFIL UR 60 WS 63 (Fosroc) / ZORIGROUT PU (PMCC)/ WATERSHIELD GROUT PU	Kg	1500
			FOR STRENGTHENING AND SEAL THE POROSITY OF THE CONCRETE TO ARREST THE LEAKAGES, DAMPNES , LEAKAGES OF CONSTRUCTION JOINTS FOR TERRACE / CEILING / RCC RETAINING WALLS / BASEMENT FLOORINGS / WATER TANKS / RESERVOIRS / TOILETS etc.,		
336	MAT-05368	BMT-H.81	SPECIALISED INJECTION GROUTING WITH CEMENT AND FREE FLOW ADDITIVES : a]. Drilling of holes with power drilling machine to the required depth [12mm to 14mm dia holes] b]. Fixing of Rubber Nozzles with cement and quick setting, Rapid hardening compound putty - Rapidstrong qs or equivalent. c]. Grouting of holes with 140 PSI Grout pump with cement slurry mixing with Specialized Free flow, Non-shrink Grout additive - RAPIDSTRONG GROUT ADMIX (Armstrong) /POWER n GROUT ADMIX (EBT) / CEBEX 100 (Fosroc) / ZORIGROUT GP1 (PMCC) / SIKAGROUT ANCHKOR NSQ (Sika) /WATERSHIELD GROUT ADMIXi.e., 250 Grams per bag of 50 Kgs Cement add required water to make slurry form. d]. After completion of grouting, Remove the Rubber nozzles e]. Later sealing of the hole with polymer cement putty - ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc NITOBOND AR + Cement.	Each	150
			FOR STRENGTHENING AND SEAL THE POROSITY OF THE CONCRETE TO ARREST THE LEAKAGES, DAMPNES , LEAKAGES OF		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			ONSTRUCTION JOINTS : (FOR TERRACE /CEILING / RCC RETAINING WALLS / BASEDMEN FLOORINGS / WATER TANKS / RESERVOIRS / TOILETS etc.,)		
337	MAT-05369	BMT-H.82	SPECIALISED INJECTION GROUTING WITH CEMENT AND CRYSTALLIZATION ADMIXTURES : a]. Drilling of holes with power drilling machine to the required depth [12mm to 14mm dia holes] b]. Fixing of Rubber Nozzles with cement and quick setting, Rapid hardening compound putty Rapidstrong qs or equivalent c]. Grouting of holes with 140 PSI Grout pump with cement slurry mixing with Specialized crystallization compound-Roofex gp or equivalent @ 5% by weight of cement. d]. After completion of grouting, Remove the Rubber nozzles e]. Later sealing of the hole with polymer cement putty-ROOFCRETE AR (Armstrong) / ZORIGROUT CMG (PMCC) / POWER n GUARD ARM (EBT) / WATERSHIELD AR / Fosroc NITOBOND AR + Cement	Each	225
			CRACKS AT TERRACE / BEAM & WALLS JUNCTIONS - SEALING THE JOINTS WITH POLYURETHANE SEALANT :		
338	MAT-05370	BMT-H.83	SPECIALISED POLYURETHANE SEALANT TREATMENT : a). Making "U" Groove (width and depth of 6mm x 6mm) b). Filling of the groove with polyurethane sealant – ROOFSEAL PU (Armstrong) / POWER n SEAL PU (EBT) / THIOFLEX 600 (Fosroc) / ZORISEAL PU (PMCC) / SIKAFLEX PRO -3 WF (Sika) WATERSHIELD PU 3	RMT	330
			CRACKS AT INTERNAL / EXTERNAL WALLS - SEALING THE CRACKS WITH ACRYLIC CAULKING COMPOUND		
339	MAT-05371	BMT-H.84	SPECIALISED ACRYLIC CAULKING SEALANT TREATMENT : a). Making "U" Groove (width and	RMT	180

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			depth of 6mm x 6mm) b). Filling of the groove with Acrylic caulking compound - WONDERSEAL XL (Armstrong) / POWER n SEAL XL (EBT) / NITOSEAL (Fosroc) / WATERSHIELD XL /ZORISEAL XL LATEX (PMCC)		
		II.SUB-SECTION	INTERGRAL WATERPROOFING COMPOUND		
340	MAT-05372	BMT-H.85	Integral Cement Waterproofing Admixture for Concrete Slabs and mortar plastering works. (Dosage : 100ml Per bag of 50 Kgs Cement) Complies with I.S. 2645-2003	1 Ltr	190
341	MAT-05373	BMT-H.86	Liquid Concentrated Micronized Cement waterproofing compound For Slabs, mortar plastering and water retained structures. (Dosage : 500ml per bag of 50 Kgs Cement) Complies with I.S. 2645-2003	1 Ltr	120
		III.SUB-SECTION	PLASTICIZERS AND WATER REDUCING AGENT		
342	MAT-05374	BMT-H.87	Concrete plasticizers and Water reducing admixture (not air entraining agent) (Dosage : 15-20ml per bag of 50 Kgs Cement)- Complies with I.S. 9103-99 Ideal to use as concrete admixture for workability retension of slump and control water cement ratio of M 20 + grade concrete for slabs /roads works and other concrete works	1 Ltr	200
			SUPER PLASTICIZERS AND WATER REDUCING CONCRETE ADMIXTURES		
343	MAT-05375	BMT-H.88	Super plasticizer and water reducing concrete admixture base on Ligno Sulphide Complies with IS 9103 & ASTM C 494 (Dosage : 200ml to 300ml per bag of 50 Kgs Cement) For M25 + grade concrete works like Road Projects / Canal linings/ Dams / Reservoirs / Building's concrete works.	1 Ltr	70
344	MAT-05376	BMT-H.89	High performance super plasticizer and water reducing admixture based on lignosulphide and naphthalene blended	1 Kg	75

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			Complies with 9103/4-99 (Dosage : 300ml to 500ml Per Bag of 50 Kgs Cement) For M30+ grade concrete works like Road Projects / Canal linings/ Dams / Reservoirs / Building's concrete works.		
345	MAT-05377	BMT-H.90	High performance super plasticizer and water reducing admixture based on naphthalene blended Complies with 9103/4-99 (Dosage : 300ml to 500ml Per Bag of 50 Kgs Cement) For M40+ grade concrete Works like road projects / Canal linings / Dams / Reservoirs / Building's concrete works	1 Kg	80
			SELF COMPACTING CONCRETE ADMIXTURES		
346	MAT-05378	BMT-H.91	High strength super plasticizers and water reducing agent based on polycarboxylic technology. Complies with IS 9103/ASTM C 494 (300ml to 1 Ltr Per Bag of 50 Kgs Cement) For M-40+ + concrete structures in coastal areas, for early high strength.	1 Kg	110
			RETARDING ADMIXTURES		
347	MAT-05379	BMT-H.92	Super plasticizer, high range water reducing and retarding concrete admixture of naphthalene blended. (Complies with 9103-99) (Dosage : 300ml to 500ml Per bag of 50 Kgs Cement) For delaying of initial setting time and M 40+ Grade concrete works.	1 Kg	85
			CORROSION INHIBITOR ADMIXTURE		
348	MAT-05380	BMT-H.93	High strength super plasticizer and corrosion inhibitor for concrete (Complies with IS 9103-99 & EN 1504-9 Method 11.3) (Dosage : 200ml to 500ml Per Bag of 50 Kgs Cement) For Concreting under extreme corrosion effected areas / coastal areas / industrial constructions to protect the steel reinforcement. Anti Corrosion and leak proof Crack Proof,Water Proof, Concrete Hardener Admixture liquid.	1 Kg	95
			AIR ENTRAINING AGENT		
349	MAT-05381	BMT-H.94	Hi-power concentrated Air Entraining,	1 Ltr	160

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			Plasticizing & Water reducing compound Complies with IS 9103-99 & ASTM C 260 (Dosage 20ml per bag of 50 Kgs Cement) Ideal to use for the construction of Bridges, Barrages, Dams, Tunnels, Piles, Foundations, Towers etc.,		
350	MAT-05382	BMT-H.95	Two component High Power Polyester Resin Anchor Grout Compound Complies with ASTM-827 /SNF.CRDC-621 (Yield 0.5 Ltrs / 1 Kg Pack) For Anchoring / fix the steel bars into the rocks, concrete for foundations, extension of concrete.	1 Kg	325
		IV. SUB-SECTION	GROUTS		
351	MAT-05383	BMT-H.96	Non-shrink Free flow high strength precision grout Complies with BS 1881 Part 1161983. For machinery / thin sections of concrete joints Filling.	1 Kg	34
352	MAT-05384	BMT-H.97	Low viscosity Epoxy resin injection grout -Two parts system. Complies with BS 6920 / ASTM 881-78 (Density 1.07 Kg Per Ltr) For Structural strengthening, filling of honey comb / voids in the concrete.	1 Kg	800
353	MAT-05385	BMT-H.98	Non-shrink, free flow, high strength grout admixture Dosage : 250 Grams Per Bag of 50 Kgs Cement. (Complies with B.S.1881 Part 1161983)	1 Kg	60
354	MAT-05386	BMT-H.99	High performance, High build expansive aqua-reactive water barrier polyurethane grout.	1 Kg	1500
		V. SUB-SECTION	BONDING AGENTS		
355	MAT-05387	BMT-H.100	Acrylic based bonding adhesive (Mix: 1:1 ratio of cement) Coverage : 50 SFT/Ltr/Coat Depending on the substrate On terrace old concrete to new mortar / screed.	1 Ltr	150
356	MAT-05388	BMT-H.101	Styrene butadiene rubber based bonding agent for mortar/ concrete	1 Ltr	450

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			(Mix: 1:1 ratio of cement) For ceiling / concrete repairs and bonding. Coverage : 50 SFT/Ltr/Coat Depending on the substrate		
357	MAT-05389	BMT-H.102	Structural element concrete bonding agent old to new concrete epoxy bonding agent : (Two Parts system of Epoxy Bonding adhesive) Complies with ASTM-C 881 Coverage : 20 – 25 SFT / Kg /Coat For Structural concrete repairs / bonding.	1 Kg	870
		VI. SUB-SECTION	SEALANTS		
358	MAT-05390	BMT-H.103	Single component polyurethane sealant (Gungrade/ Pour Grade) Complis with : ASTM C 920 -95 Type S / Grade NS, Class 25, and BS ; 5212 Ideal to use for Filling of runways / buildings, expansion joints, construction joints, Terrace Cracks, Sealing joints at doors, windows, facades, frames, crack etc.,	600ml	470
359	MAT-05391	BMT-H.104	Two part polysulphide sealant (Gun / Pour Grade) Complies with ASTM C 920 - 95 / DIN 18549 TT - 5 - 00227 E/BS 4254 -83 Ideal to use for Expansion / construction joints of runways, buildings etc.,	1 Kg	410
360	MAT-05392	BMT-H.105	Acrylic Latex Caulking Compound Complies ASTM-C-834-91 Ideal for exterior and interior crack filling works, Excellent bonding strength to adjoining surface.	1 Kg	304
		VII. SUB-SECTION	PROTECTIVE WATERPROOF COATINGS / CEMENT BASED COATINGS :		
361	MAT-05393	BMT-H.106	Two component system High durable cementitious acrylic based waterproofing systems : Complies with ASTM D 4541 / BS EN 12390 / DN 1048 (2 to 3 Sqm in two coats) For Terrace, Water Tanks, Walls Waterproof Coatings of Two Part System.	1 Ltr	134
362	MAT-05394	BMT-H.107	Acrylic Polymer Elastomeric	1 Ltr	350

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			Cementitious Waterproof Coatings Surface treatments for Terrace, Water Tanks, Walls, Reservoirs Waterproofing Coatings. Complies with ASTM D4541 / BS EN 12390. (Coverage :50 to 60 SFT / Ltr / coat)		
			PURE ACRYLIC ELASTOMERIC COATINGS		
363	MAT-05395	BMT-H.108	Single component, High solid, cold applied, Acrylic elastomeric waterproof membrane coating Complies with ASTM C 836 / 89A & ASTM C 297 (Coverage : 50 to 60 SFT Per/Ltr/Coat) Wherever highly flexible, crack Bridging, waterproofing required for Terrace, Walls Highly Flexible Waterproof Liquid Membrane pure Acrylic Coatings. (for brush / spray application add 20% water per Ltr)	1 Ltr	425
364	MAT-05396	BMT-H.109	Rubberized elastomeric flexible waterproof coating Complies with ASTM 836 / 89 A & ASTM C 297 Coverage : 40 to 50 SFT / Ltr / coat (for brush / spray application add 20% water per Ltr)	1 Ltr	300
			BITUMINOUS COATING		
365	MAT-05397	BMT-H.110	Polyurethane blended Bituminous waterproof coating system - Complies with ASTM C 836 / D 638 / DIN - 1048 / ASTM D 1004 - 76 (Coverage :40 to 50 SFT / Kg / coat) Ideal to use as waterproof of RCC substrates, Roofs, Sloped roofs, Basements. Provides jointless and seamless membrane waterproofing. (for brush / spray application add 20% water per Ltr)	1 Kg	570
366	MAT-05398	BMT-H.111	High Performance Acrylic blended Bituminous waterproof coating systems. Complies with ASTM C 836 (Coverage : 40 to 50 SFT / Ltr / coat) (for brush / spray application add 20% water per Ltr)	1 Kg	350
			SOLAR REFLECTIVE COATING		
367	MAT-05399	BMT-H.112	Pure Acrylic Solar Reflective insulator coating Complies with ASTM - G - 154 : 2000 & ASTM E 903 / EN 1062 - 3 requirement of EN 1504 / 2 : EN 1062 -	1 Ltr	200

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			6 Coverage : 15 SFT / Ltr / 3 Coats (for brush / spray application add 20% water per Ltr		
			EPOXY COATINGS		
368	MAT-05400	BMT-H.113	Two component Water thinnable Food Neutral Epoxy coating (Complies with ASTM - C- 881 / EN 13813) Coverage : 70 to 80 SFT per Ltr / coat Ideal to use as internal coatings for potable water tanks, reservoirs, sumps and walls. Part - I 1 Kg : Part-II 1/2 Kg dilute with 1 Ltr of water	1 Kg	425
			POLYURETHANE COATING		
369	MAT-05401	BMT-H.114	Single component cold applied polyurethane waterproof coating - Complies with ASTM 836 / EN 1062-3 requirement of EN 1504 - 2 Coverage : 300 Grams Per coat / Sqm. brush / spray application add 20% water per Ltr	1 Kg	400
		VIII. SUB-SECTION	ANTI CORROSIVE AGENTS		
370	MAT-05402	BMT-H.115	Acrylic based Anti corrosive coating To protect the exposed reinforcement/steel structures against corrosion. Coverage : 40 SFT Per Ltr / Coat.	1 Ltr	350
371	MAT-05403	BMT-H.116	Rust converter–rust encapsulating coating for steel During repairs to protect, to convert the rust of reinforcement / steel. Coverage : 50 SFT Per Ltr / Coat	1 Ltr	480
372	MAT-05404	BMT-H.117	High range zinc rich epoxy resin primer for reinforcement steel protection against corrosion. Coverage : 4 Sq.Mtr. /Ltr / Coat	1 Kg	475
		IX. SUB-SECTION	CURING COMPOUND&MISCELLANEOUS CHEMICALS		
373	MAT-05405	BMT-H.118	Acrylic blended water based concrete curing compounds Complies with ASTM - C - 309 Class - A Types I & II Coverage : 3.5 to 4 Sqm / Kg / Coat	1 Kg	60

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			CONCRETE REPAIR ADMIXTURES		
374	MAT-05406	BMT-H.119	Acrylic polymer modified reinstatement concrete /mortar admixture Dosage : 1 to 2 Ltrs Per Bag of 50 Kgs Cement can be mixed with required aggregates To achieve trusted High Strength Concreting / Structural rehabilitation / concrete repairs.	1 Ltr	450
			CRYSTALLIZATION COMPOUND		
375	MAT-05407	BMT-H.120	Concrete waterproofing with crystallization system by blocking inner pours and cavities of concrete. Coverage : 1.25 Kg per Sqm / Coat For Negative Water Pressure Treatments like Cellar / Ceiling areas etc.,	1 Kg	360
			PLUGGING COMPOUND		
376	MAT-05408	BMT-H.121	Fast setting cement based plugging compound. To arrest water flow leakages. (Powder Form :mix with water direct application	1 Kg	85
			SHOTCRETE / GUNITING ADMIXTURE		
377	MAT-05409	BMT-H.122	Set Accelerator for sprayed concrete and plasticizer Complies with IS 9103-99 / ASTM C 494 Type C / BS 5075 Dosage : 1 Kg to 3 Kgs per Bag of 50 Kgs Cement Depend on setting time required For shotcrete / Guniting / Emergency concrete works	1 Kg	85
378	MAT-05410	BMT-H.123	Quick setting, rapid hardening and water proofing compound Complies with ASTM C 494 Type C / IS 9103 -99 & BS 5075. Dosage : 1 Kg to 3 Kgs Per Bag of 50 Kgs Cement Depend on setting time For emergency works/Anti wash and under water concreting.	1 Ltr	80
			MICRO CONCRETE		
379	MAT-05411	BMT-H.124	High strength non-shrink cementitious micro concrete	1 Kg	38
			TILE ADHESIVES / GROUTS		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
380	MAT-05412	BMT-H.125	Tile Adhesive. Confirms to IS 15477-2004 for both type I & II / BS : EN 12004 CTT adhesive. For excellence adhesion, improved workability waterproof and also heat resistant tile fixing adhesive. At 3mm thickness 65-70 SFT	1 Kg	55
381	MAT-05413	BMT-H.126	Three component system epoxy grout for Vitrified tiles, Ceramic tiles and stones B.S. 5980 : 1980 / BS EN 120004, R 2 T. Depends upon tile dimension and grout width	1 Kg	690
382	MAT-05414	BMT-H.127	Polymer Modified Tile Grout Complies with BS EN 13888, CG 2AW 4 - 4.5 Sqm / Kg of 150 mm x 150mm tile size mix 1 Part Water with 4 Parts Powder Pack	1 Kg	60
		I.SECTION	GLASS MATERIALS (Landing cost – including loading, cost of conveyance & unloading)		
		I.SUB-SECTION	PLAIN GLASS PANES		
384	MAT-01052	BMT-I.01	Plain Float Glass 4 mm thick	1 sqm	373
385	MAT-01053	BMT-I.02	Plain Float Glass 5 mm thick	1 sqm	474
386	MAT-01054	BMT-I.03	Plain Float Glass 6 mm thick	1 Sqm	593
387	MAT-01055	BMT-I.04	Plain Float Glass 8 mm thick	1 Sqm	789
388	MAT-01056	BMT-I.05	Plain Float Glass 10 mm thick	1 Sqm	830
389	MAT-01057	BMT-I.06	Plain Float Glass 12 mm thick	1 Sqm	996
		II..SUB-SECTION	PIN HEADED GLASS PANES		
390	MAT-01064	BMT-I.13	Pin headed Glass 4 mm thick	1 sqm	280
391	MAT-01065	BMT-I.14	Pin headed Glass 5 mm thick	1 sqm	364
		III..SUB-SECTION	TINTED GLASS PANES		
392	MAT-01058	BMT-I.07	Tinted - Bronze/ Green Glass 4 mm thick	1 sqm	436
393	MAT-01059	BMT-I.08	Tinted - Bronze/ Green Glass 5 mm thick	1 sqm	545
394	MAT-01060	BMT-I.09	Tinted - Bronze/ Green Glass 6 mm thick	1 Sqm	654

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
395	MAT-01061	BMT-I.10	Tinted - Bronze/ Green Glass 8 mm thick	1 Sqm	935
396	MAT-01062	BMT-I.11	Tinted - Bronze/ Green Glass 10 mm thick	1 Sqm	1090
397	MAT-01063	BMT-I.12	Tinted - Bronze/ Green Glass 12 mm thick	1 Sqm	1375
		IV..SUB-SECTION	FROSTED/ GROUND GLASS PANES		
398	MAT-01066	BMT-I.15	Frosted / Ground Glass 4 mm thick	1 sqm	503
399	MAT-01067	BMT-I.16	Frosted / Ground Glass 5 mm thick	1 sqm	632
		V..SUB-SECTION	TOUGHENED PANES		
400	MAT-01068	BMT-I.17	Toughened Plain Glass 5 mm (including Glass)	1 sqm	758
401	MAT-01069	BMT-I.18	Toughened Plain Glass 6 mm (including Glass)	1 sqm	875
402	MAT-01070	BMT-I.19	Toughened Plain Glass 8 mm (including Glass)	1 sqm	1167
403	MAT-01071	BMT-I.20	Toughened Plain Glass 10 mm (including Glass)	1 sqm	1399
404	MAT-01072	BMT-I.21	Toughened Plain Glass 12 mm (including Glass)	1 sqm	1633
		J.SECTION	PAINTS & POLISHES (Landing cost – including loading, cost of conveyance & unloading)		
		I.SUB-SECTION	PRIMERS, FILLERS & BASES		
405	MAT-01073	BMT-J.01	Supply of water based Cement Primer of Interior Grade- 1	1 Kg	141
406	MAT-01074	BMT-J.02	Supply of water based Cement Primer of Exterior Grade- 2	1 Kg	180
407	MAT-01104	BMT-J.31	Supply of wall putty of White Cement or Polymer or Cement based	20 Kg	550
408	MAT-01075	BMT-J.03	Supply of Red Oxide Primer Paint for iron works of Grade -1	1 Litre	121
409	MAT-01076	BMT-J.04	Supply of Zinc Chromate Yellow Oxide Primer paint for iron works	1 Litre	175
410	MAT-01077	BMT-J.05	Supply of Wood Primer	1 Litre	130
411	MAT-01078	BMT-J.06	Supply of Metal paste (Putty) for steel works	1 Kg	130
412	MAT-01079	BMT-J.07	Supply of Putty for wood work	1 Kg	130
413	MAT-01080	BMT-J.08	Supply of White Lead	1 Kg	93

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
414	MAT-01081	BMT-J.09	Supply of Synthetic clear Varnish	1 Litre	137
415	MAT-01082	BMT-J.10	Supply of Spirit	1 Litre	96
416	MAT-01083	BMT-J.11	Supply of Linseed Oil	1 Litre	55
417	MAT-01084	BMT-J.12	Supply of thinner for melamine polish/ french polish	1 Litre	131
418	MAT-01085	BMT-J.13	Supply of thinner for Poly-urethane polish	1 Litre	244
419	MAT-01086	BMT-J.14	Supply of French Polish	1 Litre	179
420	MAT-01087	BMT-J.15	Supply of ready made Wax Polish	1 Kg	514
421	MAT-01091	BMT-J.19	Supply of wood adhesive compound	1 Kg	212
422	MAT-01100	BMT-J.27	Supply of anti-corrosive grade - 1 bitumen paint of black colour	1 Litre	465
		II.SUB-SECTION	DISTEMPER PAINTS		
423	MAT-01092	BMT-J.20	Supply of Dry Powder Distemper	1 Kg	40
424	MAT-01093	BMT-J.21	Supply of acrylic based Oil Bound washable Distemper	1 Kg	81
425	MAT-01099	BMT-J.26	Supply of paint grade white lime for wash	25 Kg	490
426	MAT-01095	BMT-J.23	Supply of Water proof Cement paint	1 Kg	49
427	MAT-01098	BMT-J.25	Supply of water proof Cement paint pack	25 Kg	1009
		III.SUB-SECTION	EMULSION BASED PAINTS		
428	MAT-01097	BMT-J.24	Supply of acrylic emulsion paint interior grade having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1 Litre	168
429	MAT-01107	BMT-J.34	Supply of acrylic emulsion paint exterior grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/ liter.	1Lit	194
430	MAT-01108	BMT-J.35	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	214
		IV.SUB-SECTION	SOLVENT BASED PAINTS		
431	MAT-01094	BMT-J.22	Supply of synthetic polymer luxury plastic emulsion paint of superior grade having VOC (Volatile Organic Compound) content less than 50 grams/	1 Litre	404

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			liter.		
		V.SUB-SECTION	OIL BASED ENAMEL PAINTS		
432	MAT-01102	BMT-J.29	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	248
433	MAT-01103	BMT-J.30	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	172
		VI.SUB-SECTION	TEXTURE PAINTS		
434	MAT-01105	BMT-J.32	Exterior Texture.	25 Kg	818
435	MAT-01106	BMT-J.33	Gold line Exterior Texture	25 Kg	1060
		VII.SUB-SECTION	SPECIAL PAINTS		
436	MAT-01088	BMT-J.16	Supply of Melamine Polish	1 Litre	314
437	MAT-01089	BMT-J.17	Supply of Interior Grade Poly-Urethane Polish	1 Litre	637
438	MAT-01090	BMT-J.18	Supply of Exterior Grade Poly-Urethane Polish	1 Litre	708
439	MAT-01101	BMT-J.28	Supply of grade-1 aluminium paint	1 Litre	255
440	MAT-05415	BMT-J.36	Acrylic spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to protect the material the acrylic binding medium used gives good surface adhesion any grade Spray Plaster - Superfine (Interior Grade)	25Kg	500
441	MAT-05416	BMT-J.37	Acrylic coarse spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to protect the material the acrylic binding medium used gives good surface adhesion interior gradeAcrylic coarse	25Kg	400
442	MAT-05417	BMT-J.38	Supply of acrylic emulsion paint interior premium grade having VOC (Volatile Organic Compound) content less than 50 grams/liter	1 Liter	200
443	MAT-05418	BMT-J.39	Supply of Base coat as primer for natural textures and natural stone based paints - Exterior GradeBASE COAT	1Kg	61
444	MAT-05419	BMT-J.40	Acrylic spray plaster in paste form made with specially selected inert mineral fillers, antifungal agents to	25Kg	1300

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			protect the material the acrylic binding medium used gives good surface adhesion exterior grade Spray Plaster (Exterior)		
445	MAT-05420	BMT-J.41	Supply of acrylic emulsion paint exterior premium grade with silicon additives having VOC (Volatile Organic Compound) content less than 50 grams/liter.Alltimate	1 Liter	310
		K	PARTICLE BOARDS (Landing cost – including loading, cost of conveyance, unloading)		
		I.SUB-SECTION	MELAMINE FACED PLAIN PARTICLE BOARDS		
446	MAT-01109	BMT-K.01	Melamine faced Single Deco PPB- 8 mm thick	1Sqm	590
447	MAT-01110	BMT-K.02	Melamine faced Single Deco PPB- 12 mm thick	1Sqm	670
448	MAT-01111	BMT-K.03	Melamine faced Single Deco PPB- 18 mm thick	1Sqm	776
449	MAT-01112	BMT-K.04	Melamine faced Single Deco PPB- 25 mm thick	1Sqm	879
450	MAT-01113	BMT-K.05	Melamine faced Single Deco PPB- 35 mm thick	1 Sqm	1463
451	MAT-01114	BMT-K.06	Melamine faced Twin Deco PPB- 8 mm thick	1 Sqm	679
452	MAT-01115	BMT-K.07	Melamine faced Twin Deco PPB- 12 mm thick	1 Sqm	776
453	MAT-01116	BMT-K.08	Melamine faced Twin Deco PPB-18 mm thick	1 Sqm	898
454	MAT-01117	BMT-K.09	Melamine faced Twin Deco PPB-25 mm thick	1 Sqm	995
455	MAT-01118	BMT-K.10	Melamine faced Twin Deco PPB-35 mm thick	1 Sqm	1869
		II.SUB-SECTION	INSULATING PARTICLE BOARDS		
456	MAT-01119	BMT-K.11	Natural Colour-Insulating Board - 12 mm thick	1 Sqm	242
457	MAT-01120	BMT-K.12	Natural Colour-Insulating Board - 18 mm thick	1 Sqm	358
458	MAT-01121	BMT-K.13	Natural Colour-Insulating Board - 25 mm thick	1 Sqm	414
459	MAT-01122	BMT-K.14	White Insulating Board - 12 mm thick	1 Sqm	268
460	MAT-01123	BMT-K.15	White Insulating Board - 18 mm thick	1	383

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
				Sqm	
461	MAT-01124	BMT-K.16	White Insulating Board - 25 mm thick	1 Sqm	341
		III.SUB-SECTION	MEDIUM DENSITY FIBRE BOARD		
462	MAT-01125	BMT-K.17	Medium Fibre Board: Interior Grade - 6 mm thick	1 Sqm	359
463	MAT-01126	BMT-K.18	Medium Fibre Board: Interior Grade - 8 mm thick	1 Sqm	407
464	MAT-01127	BMT-K.19	Medium Fibre Board: Interior Grade - 12 mm thick	1 Sqm	545
465	MAT-01128	BMT-K.20	Medium Fibre Board: Interior Grade - 15 mm thick	1 Sqm	693
466	MAT-01129	BMT-K.21	Medium Fibre Board: Interior Grade - 18 mm thick	1 Sqm	773
467	MAT-01130	BMT-K.22	Medium Fibre Board: Interior Grade - 25 mm thick	1 Sqm	1208
468	MAT-01131	BMT-K.23	Medium Fibre Board: Interior Grade - 30 mm thick	1 Sqm	1460
469	MAT-01132	BMT-K.24	Medium Fibre Board: Interior Grade - 35 mm thick	1 Sqm	1592
470	MAT-01133	BMT-K.25	Medium Fibre Board: Exterior Grade - 6 mm thick	1 Sqm.	488
471	MAT-01134	BMT-K.26	Medium Fibre Board: Exterior Grade - 8 mm thick	1 Sqm.	569
472	MAT-01135	BMT-K.27	Medium Fibre Board: Exterior Grade - 12 mm thick	1 Sqm.	753
473	MAT-01136	BMT-K.28	Medium Fibre Board: Exterior Grade - 15 mm thick	1 Sqm.	946
474	MAT-01137	BMT-K.29	Medium Fibre Board: Exterior Grade - 18 mm thick	1 Sqm.	1059
475	MAT-01138	BMT-K.30	Medium Fibre Board: Exterior Grade - 25 mm thick	1 Sqm.	1411
476	MAT-01139	BMT-K.31	Medium Fibre Board: Exterior Grade - 30 mm thick	1 Sqm.	1758
477	MAT-01140	BMT-K.32	Medium Fibre Board: Exterior Grade - 35 mm thick	1 Sqm.	2077
478	MAT-01141	BMT-K.33	MDF Board: Plain-Interior - 9 mm thick	1 Sqm	346
479	MAT-01142	BMT-K.34	MDF Board: Plain-Interior - 12 mm thick	1 Sqm	393
480	MAT-01143	BMT-K.35	MDF Board: Plain-Interior - 18 mm thick	1 Sqm	487

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
481	MAT-01144	BMT-K.36	MDF Board: Plain-Interior - 25 mm thick	1 Sqm	584
482	MAT-01145	BMT-K.37	MDF Board: Plain-Interior - 30 mm thick	1 Sqm	890
483	MAT-01146	BMT-K.38	MDF Board: Plain-Interior - 35 mm thick	1 Sqm	1053
484	MAT-01147	BMT-K.39	MDF Board: Plain-Exterior - 9 mm thick	1 Sqm	431
485	MAT-01148	BMT-K.40	MDF Board: Plain-Exterior - 12 mm thick	1 Sqm	487
486	MAT-01149	BMT-K.41	MDF Board: Plain-Exterior - 18 mm thick	1 Sqm	639
487	MAT-01150	BMT-K.42	MDF Board: Plain-Exterior - 25 mm thick	1 Sqm	801
488	MAT-01151	BMT-K.43	MDF Board: Plain-Exterior - 30 mm thick	1 Sqm	1053
489	MAT-01152	BMT-K.44	MDF Board: Plain-Exterior - 35 mm thick	1 Sqm	1213
490	MAT-01153	BMT-K.45	MDF Board: Interior-One Side Laminated -9 mm thick	1 Sqm	542
491	MAT-01154	BMT-K.46	MDF Board: Interior-One Side Laminated -12 mm thick	1 Sqm	613
492	MAT-01155	BMT-K.47	MDF Board: Interior-One Side Laminated -18 mm thick	1 Sqm	713
493	MAT-01156	BMT-K.48	MDF Board: Interior-One Side Laminated -25 mm thick	1 Sqm	801
494	MAT-01157	BMT-K.49	MDF Board: Interior-One Side Laminated -30 mm thick	1 Sqm	1158
495	MAT-01158	BMT-K.50	MDF Board: Interior-One Side Laminated -35 mm thick	1 Sqm	1235
496	MAT-01159	BMT-K.51	MDF Board: Exterior-One Side Laminated -9 mm thick	1 Sqm	623
497	MAT-01160	BMT-K.52	MDF Board: Exterior-One Side Laminated -12 mm thick	1 Sqm	700
498	MAT-01161	BMT-K.53	MDF Board: Exterior-One Side Laminated -18 mm thick	1 Sqm	793
499	MAT-01162	BMT-K.54	MDF Board: Exterior-One Side Laminated -25 mm thick	1 Sqm	927
500	MAT-01163	BMT-K.55	MDF Board: Exterior-One Side Laminated -30 mm thick	1 Sqm	1235
501	MAT-01164	BMT-K.56	MDF Board: Exterior-One Side Laminated -35 mm thick	1 Sqm	1312
502	MAT-01165	BMT-K.57	MDF Board: Interior-Both Side Laminated -9 mm thick	1 Sqm	590

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
503	MAT-01166	BMT-K.58	MDF Board: Interior-Both Side Laminated -12 mm thick	1 Sqm	700
504	MAT-01167	BMT-K.59	MDF Board: Interior-Both Side Laminated -18 mm thick	1 Sqm	801
505	MAT-01168	BMT-K.60	MDF Board: Interior-Both Side Laminated -25 mm thick	1 Sqm	1006
506	MAT-01169	BMT-K.61	MDF Board: Interior-Both Side Laminated -30 mm thick	1 Sqm	1235
507	MAT-01170	BMT-K.62	MDF Board: Interior-Both Side Laminated -35 mm thick	1 Sqm	1312
508	MAT-01171	BMT-K.63	MDF Board: exterior-Both Side Laminated -9 mm thick	1 Sqm	666
509	MAT-01172	BMT-K.64	MDF Board: exterior-Both Side Laminated -12 mm thick	1 Sqm	792
510	MAT-01173	BMT-K.65	MDF Board: exterior-Both Side Laminated -18 mm thick	1 Sqm	937
511	MAT-01174	BMT-K.66	MDF Board: exterior-Both Side Laminated -25 mm thick	1 Sqm	1024
512	MAT-01175	BMT-K.67	MDF Board: exterior-Both Side Laminated -30 mm thick	1 Sqm	1296
513	MAT-01176	BMT-K.68	MDF Board: exterior-Both Side Laminated -35 mm thick	1 Sqm	1390
		IV.SUB-SECTION	CEMENT BONDED PARTICLE BOARD		
514	MAT-01177	BMT-K.69	Cement bonded particle board conforming to IS 14276- 6 mm thick	1 sqm	221
515	MAT-01178	BMT-K.70	Cement bonded particle board conforming to is 14276- 8 mm thick	1 sqm	304
516	MAT-01179	BMT-K.71	Cement bonded particle board conforming to is 14276- 10 mm thick	1 sqm	376
517	MAT-01180	BMT-K.72	Cement bonded particle board conforming to is 14276- 12 mm thick	1 sqm	452
518	MAT-01181	BMT-K.73	Cement bonded particle board conforming to is 14276- 16 mm thick	1 sqm	596
519	MAT-05423	BMT-K.109	Cement bonded particle board conforming to is 14276- 18 mm thick	1 Sqm	672
520	MAT-01182	BMT-K.74	Cement bonded particle board conforming to is 14276- 20 mm thick	1 sqm	740
521	MAT-01183	BMT-K.75	Cement bonded particle board conforming to is 14276- 25 mm thick	1 sqm	921
522	MAT-01184	BMT-K.76	Cement bonded particle board conforming to is 14276- 30 mm thick	1 sqm	1119
523	MAT-01185	BMT-K.77	Cement bonded particle board conforming to is 14276- 40 mm thick	1 sqm	1495

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
524	MAT-01186	BMT-K.78	Pre laminated cement bonded particle board-6 mm thick	1 sqm	498
525	MAT-01187	BMT-K.79	Pre laminated cement bonded particle board-8 mm thick	1 sqm	545
526	MAT-01188	BMT-K.80	Pre laminated cement bonded particle board- 10 mm thick	1 sqm	583
527	MAT-01189	BMT-K.81	Pre laminated cement bonded particle board- 12 mm thick	1 sqm	671
528	MAT-01190	BMT-K.82	Pre laminated cement bonded particle board- 16 mm thick	1 sqm	714
529	MAT-01191	BMT-K.83	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 6mm thick	1 sqm	260
530	MAT-01192	BMT-K.84	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 8mm thick	1 sqm	317
531	MAT-01193	BMT-K.85	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 10mm thick	1 sqm	399
532	MAT-01194	BMT-K.86	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 12mm thick	1 sqm	480
533	MAT-01195	BMT-K.87	Cement Bonded Particale DESIGNER BOARD Available Designs 1. Lumber 2. Quadra 3. Murk Standard size 8'X4' 10'X4'- 16mm thick	1 sqm	634
534	MAT-01196	BMT-K.88	Cement Bonded Board conforming to IS:14862-2000 - 4mm Thick	1 Sqm	146
535	MAT-01197	BMT-K.89	Cement Bonded Board conforming to IS:14862-2000 - 6mm Thick	1 Sqm	209
536	MAT-01198	BMT-K.90	Cement Bonded Board conforming to IS:14862-2000 - 8mm Thick	1 Sqm	269
537	MAT-01199	BMT-K.91	Cement Bonded Board conforming to IS:14862-2000 - 10mm Thick	1 Sqm	309
538	MAT-01200	BMT-K.92	Cement Bonded Board conforming to IS:14862-2000 - 12mm Thick	1 Sqm	386
539	MAT-01201	BMT-K.93	Cement Bonded Board conforming to IS:14862-2000 - 14mm Thick	1 Sqm	410
540	MAT-01202	BMT-K.94	Cement Bonded Board conforming to IS:14862-2000 - 16mm Thick	1 Sqm	490
541	MAT-01203	BMT-K.95	Cement Bonded Board conforming to IS:14862-2000 - 18mm Thick	1 Sqm	529

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
542	MAT-01204	BMT-K.96	Cement Bonded Board conforming to IS:14862-2000 - 20mm Thick	1 Sqm	590
543	MAT-01213	BMT-K.105	ITEM DELETED		
544	MAT-05421	BMT-K.106	50 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	907
545	MAT-05422	BMT-K.107	75 mm thick SOLID WALL PANEL Sandwich panels made of light weight FRACC non-asbestos fibre reinforced cement concrete	1 Sqm	1143
		Note: Items BMT-K.97 , BMT-K.98,BMT-K.99,BMT-K.100,BMT-K.101,BMT-K.102,BMT-K.103,BMT-K.104 are removed in the section K and are brought as new items in the Section L as BMT-L.21,BMT-L.22,BMT-L.23,BMT-L.24,BMT-L.25,BMT-L.26,BMT-L.27,BMT-L.28.			
		L.SECTION	PLYWOOD (Landing cost – including loading, cost of conveyance, unloading)		
546		I.SUB-SECTION	MOISTURE RESISTANT (MR) GRADE		
547	MAT-01216	BMT-L.01	3 Ply - 4 mm thick Plywood(IS:303) MR Grade	1 Sqm	363
548	MAT-01217	BMT-L.02	5 Ply - 6 mm thick Plywood(IS:303) MR Grade	1 Sqm	399
549	MAT-01218	BMT-L.03	5 Ply - 8 mm thick Plywood(IS:303) MR Grade	1 Sqm	480
550	MAT-01219	BMT-L.04	5 Ply - 9 mm thick Plywood(IS:303) MR Grade	1 Sqm	480
551	MAT-01220	BMT-L.05	9 Ply - 12 mm thick Plywood(IS:303) MR Grade	1 Sqm	600
552	MAT-01221	BMT-L.06	9 Ply - 15 mm thick Plywood(IS:303) MR Grade	1 Sqm	885
553	MAT-01222	BMT-L.07	9 Ply - 18 mm thick Plywood(IS:303) MR Grade	1 Sqm	867
		II.SUB-SECTION	BOILING WATER RESISTANT (BWR) GRADE		
554	MAT-01223	BMT-L.08	3 Ply - 4 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	423
555	MAT-01224	BMT-L.09	5 Ply - 6 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	472
556	MAT-01225	BMT-L.10	5 Ply - 8 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	588
557	MAT-01226	BMT-L.11	5 Ply - 9 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	554

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
558	MAT-01227	BMT-L.12	9 Ply - 12 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	725
559	MAT-01228	BMT-L.13	9 Ply - 15 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1031
560	MAT-01229	BMT-L.14	9 Ply - 19 mm thick Plywood(IS:303) BWR/BWP Grade	1 Sqm	1044
		III.SUB-SECTION	VENEERED DECORATIVE PLYWOOD		
561	MAT-01230	BMT-L.15	3 Ply-4 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	561
562	MAT-01231	BMT-L.16	5 Ply - 6 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	731
563	MAT-01232	BMT-L.17	5 Ply - 9 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	894
564	MAT-01233	BMT-L.18	9 Ply - 13 mm thick One side Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1193
565	MAT-01234	BMT-L.19	5 Ply - 9 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1221
566	MAT-01235	BMT-L.20	9 Ply - 12 mm thick Both sides Teak Veneer Decorated Plywood (IS:1328)	1 Sqm	1359
		IV.SUB-SECTION	LAMINATES		
567	MAT-01205	BMT-L.21	Laminate Sheets - Glossy Finish: 1 mm thick	1 Sqm	367
568	MAT-01206	BMT-L.22	Laminate Sheets - Glossy Finish: 1.50 mm thick	1 Sqm	524
569	MAT-01207	BMT-L.23	Laminate Sheets - Glossy Finish: 1.80 mm thick	1 Sqm	575
570	MAT-01208	BMT-L.24	Laminate Sheets - Mat Finish: 1 mm thick	1 Sqm	370
571	MAT-01209	BMT-L.25	Laminate Sheets - Mat Finish: 1.50 mm thick	1 Sqm	516
572	MAT-01210	BMT-L.26	Laminate Sheets - Mat Finish: 1.80 mm thick	1 Sqm	555
		V.SUB-SECTION	COMMERCIAL VENEERS		
573		BMT-L.27	Teak Veneer Lamination - 4 mm thick - Pencil Grains	1 Sqm	410
574		BMT-L.28	Teak Veneer Lamination - 4 mm thick - Natural Grains	1 Sqm	717
575		BMT-L.29	Providing Wood Polymer Composite (WPC) solid, frostywhite single extruded factory made 2.44 mt x 1.22 mt boards in		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
576	MAT-05424	BMT-L.29.A	6 MM thickness (Density 550 kg/Cum, Weight 9.5Kg)	sqmt	630
577	MAT-05425	BMT-L.29.B	11 MM thickness (Density 500 kg/Cum, Weight 16.5Kg)	sqmt	1080
578	MAT-05426	BMT-L.29.C	18 MM thickness (Density 650 kg/Cum, Weight 35Kg)	sqmt	2145
		M.SECTION	CEILINGS, WALL PARTITIONS & WALL LININGS		
		I.SUB-SECTION	FALSE CEILINGs- TILES / SHEETS		
579	MAT-01236	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	238
580	MAT-01237	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	232
581	MAT-01238	BMT-M.03	Gypsum Board Plain sheet 12.5 mm thick as per IS 2095 -1993	1 Sqm	210
582	MAT-01263	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 $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	524
583	MAT-01264	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 $\lambda = 0.052$ to 0.057 w/mk, Fire Performance Class 0/Class 1	1 Sqm	614
584	MAT-01265	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	661
585	MAT-01266	BMT-M.31	12 mm - Mineral Fiber sheet 600 x 600 (Square / Tegular) Edge tiles	1 Sqm	406
586	MAT-01271	BMT-M.36	Supply of Thermocole 12 mm thick sheets	1 Sqm	24
587	MAT-01272	BMT-M.37	Supply of Thermocole 19 mm thick sheets	1 Sqm	41
588	MAT-01275	BMT-M.40	Calcium Silicate Boards - 6mm thick	1 Sqm	198

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
589	MAT-01276	BMT-M.41	Calcium Silicate Boards - 8mm thick	1 Sqm	263
590	MAT-01277	BMT-M.42	Calcium Silicate Boards - 10mm thick	1 Sqm	330
591	MAT-01278	BMT-M.43	Calcium Silicate Boards - 12mm thick	1 Sqm	395
592	MAT-01286	BMT-M.51	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	405
593	MAT-01287	BMT-M.52	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	338
594	MAT-01288	BMT-M.53	Designer ceiling Cement Boards - thickness 3.2 mm	1 Sqm	212
595	MAT-01289	BMT-M.54	High pressure steam cured Cement Boards 4 mm thick	1 Sqm.	113
596	MAT-01290	BMT-M.55	High pressure steam cured Cement Boards 6 mm thick	1 Sqm.	170
597	MAT-01291	BMT-M.56	High pressure steam cured Cement Boards 8 mm thick	1 Sqm.	225
598	MAT-01292	BMT-M.57	High pressure steam cured Cement Boards 10 mm thick	1 Sqm.	283
599	MAT-01293	BMT-M.58	High pressure steam cured Cement Boards 12 mm thick	1 Sqm.	339
600	MAT-01294	BMT-M.59	High pressure steam cured Cement Boards 14 mm thick	1 Sqm.	395
601	MAT-01295	BMT-M.60	High pressure steam cured Cement Boards 16 mm thick	1 Sqm.	452
602	MAT-01296	BMT-M.61	High pressure steam cured Cement Boards 18 mm thick	1 Sqm.	508
603	MAT-01297	BMT-M.62	High pressure steam cured Cement Boards 20 mm thick	1 Sqm.	564
604	MAT-01298	BMT-M.63	High pressure steam cured designer Cement Boards 4 mm thick	1 Sqm.	166
605	MAT-01299	BMT-M.64	High pressure steam cured designer Cement Boards 6 mm thick	1 Sqm.	245
606	MAT-01305	BMT-M.70	Supply and fixing of CEMENT BONDED PARTICLE BOARDS (IS 14276) false ceiling using 8MM CEMENT BONDED PARTICLE BOARDS with galvanized	1 Sqm	924

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			and pre painted steel T section of size 24mm x 38mm x 0.3 mm for main T duty pre punched to accept cross T section of size 24mm x 30mm x 0.3 mm duly punched at both ends for insertion into main T. The grid size will be 610mm x 610mm. The frame work (grid) is suspended to the roof by using G.I flat of 0.60mm or 14-gauge G.I wire with necessary fixers to the roof and frame work. 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.		
607	MAT-01314	BMT-M.79	Providing and fixing false ceiling consisting of 600mmX600mm, Solid PVC insulation panels having wall thickness of 1mm thick plain PVC rigid foam sheet and EPS as defined in of desired thickness depending on insulation required shall be insert in a frame work made using anodized aluminium Tee section of sizes 1"X1" (25X25mm, 19 gauge or 1mm thick) in square pattern of grid sizes of 2'X2' (600X600mm). The aluminium framework is supported from the ceiling with the help of G.I. hook and G.I. wire/6mm.M.S. rods of required sizes to maintain proper level etc. the aluminium framework is supported on side wall with the use of aluminium 1"X1" (25X25mm) angles, complete as per direction of Engineer-in-Charge, manufacture's specification & drawing	1 sqm	1179
608	MAT-01315	BMT-M.80	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Fissura Fine Model	1 Sqm	321
609	MAT-01316	BMT-M.81	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Speckle Model	1 Sqm	359
610	MAT-01317	BMT-M.82	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 13 mm thick Square Edge - Textura Model	1 Sqm	397
611	MAT-01318	BMT-M.83	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Standard Regular Edge	1 Sqm	406
612	MAT-01319	BMT-M.84	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Fissura Fine Model	1 Sqm	416

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
613	MAT-01320	BMT-M.85	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Speckle Model	1 Sqm	434
614	MAT-01321	BMT-M.86	Mineral Fibre Ceiling Tile of 0.595 mm x 0.595 mm of 15 mm thick Textura Model	1 Sqm	471
615	MAT-01322	BMT-M.87	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 ± 0.3mm with tongue and groove system, provided with necessary arrangements for electrical connections, complete, for finished item of work.	1 Sqm.	1308
		II.SUB-SECTION	FALSE CEILINGs- SECTIONS & ACCESSORIES		
616	MAT-01239	BMT-M.04	G.I. Ceiling Angle - 25 mm x 10 mm x 0.55 mm	1 RM	63
617	MAT-01240	BMT-M.05	G.I. Ceiling Section 51.5 mm x 26 mm x 10.5 mm x 0.55 mm thick	1 RM	72
618	MAT-01241	BMT-M.06	G.I. Intermediate Section 45 mm x 15 mm x 15 mm x 0.9 mm	1 RM	71
619	MAT-01242	BMT-M.07	G.I. Perimeter Channel - 20 mm x 27 mm x 30 mm (web) of 0.55 mm thick	1 RM	63
620	MAT-01243	BMT-M.08	G.I.-Precoated Fine line Grid 25 mm x 25 mm x 0.7 mm	1 RM	35
621	MAT-01244	BMT-M.09	G.I.-Precoated Fine line Grid 15 mm x 25 mm x 0.7 mm	1 RM	31
622	MAT-01245	BMT-M.10	GI - Precoated - T-Sec- 24 mm x 38 mm x 0.7 mm thick	1 RM	46
623	MAT-01246	BMT-M.11	Hot dipped GI Angle - Precoated - Grid: 19 mm x 19 mm	1 RM	34
624	MAT-01247	BMT-M.12	Polyester painted GI - T Section - 24 x 32 mm	1 RM	42
625	MAT-01248	BMT-M.13	Polyester painted GI - T Section - 24 x 25 mm	1 RM	38
626	MAT-01249	BMT-M.14	Polyester painted GI - T Section - 24 mm x 27 mm	1 RM	39
627	MAT-01250	BMT-M.15	Aluminium Angle : 24 mm x 24 mm	1 RM	24
628	MAT-01251	BMT-M.16	Anodised Aluminium T Section : 24 x 24.5 x 2.4 mm	1 RM	29
629	MAT-01252	BMT-M.17	Connecting Clips	1	3

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
				Each	
630	MAT-01253	BMT-M.18	Rawl Plug	1 Each	2
631	MAT-01254	BMT-M.19	6 mm Nylon Rawl Plug	1 Each	4
632	MAT-01255	BMT-M.20	Soffit Cleats	1 Each	3
633	MAT-01256	BMT-M.21	Drywall Screws - 25 mm	1 Each	2
634	MAT-01257	BMT-M.22	Jointing Compound	1 Kg	25
635	MAT-01258	BMT-M.23	Jointing Paper Tape	1 RM	4
636	MAT-01259	BMT-M.24	Drywall Top Coat	1 Litre	120
637	MAT-01260	BMT-M.25	Universal Holding Clips	1 Each	3
638	MAT-01261	BMT-M.26	4 mm Dia GI Connecting Rod	1 RM	11
639	MAT-01262	BMT-M.27	2 mm Dia GI Connecting Rod	1 RM	8
		III.SUB-SECTION	WALL PANELL & WALL LININGS		
640	MAT-01274	BMT-M.39	Providing wooden panelling 12 mm thick 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	1405
641	MAT-01267	BMT-M.32	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	2318
642	MAT-01300	BMT-M.65	Supply and fixing of wall panelling (water, fire and Termite proof) with frame work made of GI stud profile of size 48 x 40x10 x 0.6 mm thick placed	1 Sqm.	816

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 cladged 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 Designer CEMENT BONDED BOARD		
643	MAT-01301	BMT-M.66	ITEM DELETED		
644	MAT-01306	BMT-M.71	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 o primer and two coats of smooth finish and cost & conveyance of all materials, labor charges etc. complete as per the direction of Engineer in charge.	1 Sqm	1161
645	MAT-01309	BMT-M.74	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS wall paneling using 12 MM 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	1763
646	MAT-01312	BMT-M.77	Providing and fixing INSULATED PVC	1 sqm	1696

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
647	MAT-01313	BMT-M.78	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 be ensured that a strips of 5mm thick PVC sheet of width 75mm feathered at the edges shall be stuck at the places where two panels are joined, using solvent cement. , complete as per direction of Engineer-in-Charge,	1 sqm	1612

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			manufacture's specification & drawing		
648	MAT-01323	BMT-M.88	Supply and fixing of wall panelling on the framework of wooded rippers of 24 X 24mm of required size. The entire framework shall be panelled with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm. The panels are joined with tongue and groove system. Necessary cut-outs for electrical connections to be provided at required places complete, for finished item of work.	1 Sqm.	1239
			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:		
649	MAT-01282	BMT-M.47	A) using 8mm thick Calcium silicate boards	1 Sqm	702
650	MAT-01283	BMT-M.48	B) Using 10mm thick Calcium silicate boards	1 Sqm	773
651	MAT-01284	BMT-M.49	C) Using 12mm thick Calcium silicate boards	1 Sqm	844
652	MAT-05430	BMT-M.95	Providing and fixing in position wall panelling to all heights with eco friendly light weight calcium silicate panels/tiles Globe Design of size 595mm x 595mm having square/butt edge having NRC(Noise Reduction Coefficient) of 0.5 to 0.75 as per IS 8225:1987, Light reflectance of 85%(minimum), Non Combustible as per BS:476 (part-4), fire performance as per BS:476 (part-6&7), humidity resistance of 100% and thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @ 120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. Glasswool of 50mm	sqm	2155

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound & fiber joint tape roll 50mm wide (90 metre)roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.(With 15 mm thick integral densified fully perforated light weight calcium silicate panels/tiles)		
		IV	PARTITIONS		
653	MAT-01273	BMT-M.38	Supply & fixing 75mm thick metal stud partition using 12.5 mm thick Gypboard conforming to IS 2095-1982 screw fixed to either side to 48 mm studs of 0.55 mm thick with the 50 mm floor and ceiling channel 0.55 mm and the joints duly finished with joint compound, paper tape and two coats Dry wall top coat as per specification.	1 Sqm	1044
654	MAT-01279	BMT-M.44	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	1184
655	MAT-01280	BMT-M.45	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	1325
656	MAT-01281	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	1 Sqm	1465

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			and the joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification finished Item of work - Using 12mm thick Calcium silicate boards		
657	MAT-01285	BMT-M.50	Supply and Fixing 66mm thick metal stud partition using 2 layers of 12mm thick Calcium silicate boards screw fixed to either side to 48mm studs of 0.55mm thick with 50mm floor and ceiling channel 0.55mm.The boards joints are to be staggered to avoid through passage. Ceramic wool of 50mm thick, 64kg/m ³ density is to be placed in cavity of the partition. The joints duly finished with joining compound, glass fibre tape and two coats dry wall top coat as per specification with out painting for finished item of work	1 Sqm	3745
658	MAT-01302	BMT-M.67	Supply and fixing double skin CEMENT BOARD 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 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.	1 Sqm.	1195
659	MAT-01303	BMT-M.68	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	1 sqm	1476

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
660	MAT-01304	BMT-M.69	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.	1762
661	MAT-01307	BMT-M.72	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 50mmx 35mm x 0.55 mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm intervals horizontally fixed to the wall by means of self expansion screws and	1 Sqm	1696

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 primer and two coats of smooth finish and cost and conveyance of all materials to site, labor charges etc., complete as per the direction of Engineer in charge.		
662	MAT-01308	BMT-M.73	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 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.	1 Sqm	2336
663	MAT-01310	BMT-M.75	Supply and fixing of CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS aluminum glazed partitions using 10 MM CEMENT BONDED PRE-LAMINATED PARTICLE BOARDS and 5 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	2908
664	MAT-01311	BMT-M.76	Providing and fixing 50mm thick SEMI HEIGHT SOLID PVC PARTITION consisting of 49mm sandwich PVC panel made out of 36mm high density	1 sqm	2576

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 PVC 'C' channel of size 50X100mm with feathered edges shall be fixed on the floor & 50X75mm with feathered edges plain/printed /prelam PVC 'C' channel. In between adjoining EPS sandwiched PVC partitions panel 5mm thickX75mm width plain/printed/prelam PVC sheet feathered at edges shall be stuck on front & back face using solvent cement etc. in places where two partitions meet to form an 'L' shape the panels are joined 5mm thick plain/printed/prelam heat 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 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		
665	MAT-01324	BMT-M.89	Supply and fixing of PVC Double Skin Partition. The entire framework shall be carried out by mild steel section having overall dimensions of 24 X 48mm with a wall thickness of 1.2mm. The entire framework shall be concealed with PVC section having overall dimensions of 6 X 250mm with a wall thickness of 1mm ± 0.3mm both sides. Glass provision/Door provision can be provided along the partition wherever required. Partitions can be made full or half as per requirement complete, for finished item of work.	Sqm.	2175
			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,		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
666	MAT-01325	BMT-M.90	Fixed Partition: Outer frame section size of 46x52mm, mullion section should be of 46x70mm, fixed beading should be of 18x25mm.	1 sqm	4477
667	MAT-01326	BMT-M.91	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	5105
			DRY WALL PARTITION WITH 50 MM THICK V-PANEL		
668	MAT-01327	BMT-M.92	CEMENT BONDED PARTICLE PLANK- 8 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	548
669	MAT-01328	BMT-M.93	CEMENT BONDED PARTICLE PLANK- 10 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	672
670	MAT-01329	BMT-M.94	CEMENT BONDED PARTICLE PLANK- 12 mm- Available size-150 mm X2440mm and 200mm X 2440mm	1 Sqm	827
		Note: Items BMT-M.33, BMT-M.34, and BMT-M.35 are removed in the section M and are brought as new items in the Section D as BMT-D.18, BMT-D.19 and BMT-D.20.			
		N.SECTION	DOORS (Landing cost – including loading, cost of conveyance, unloading)		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
		I.SUB-SECTION	DOOR FRAMES		
671	MAT-05431	BMT-N.80	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	619
672	MAT-05432	BMT-N.81	Mild Steel Hallow single rebate general purpose door frames manufactured using cold roll formed process steel sheet of 1.25 mm thick bright (Cold Rolled Close Annealed (CRCA) and profile-B of size 105 x 60 mm conforming to IS 4351 - 2003 including pretreatment, phosphating with Hinges, Base Ties, Holdfast Lugs, Mortar Guards, shock absorbers and provision for Tower Bolts, Aldrops, Lock & Strike plates etc. for both single and double shutter doors	1 Rm	353
673	MAT-01330	BMT-N.01	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	1 Rm	330

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			manufacturers specification and direction of Engineer-in-Charge for finished item of work		
674	MAT-01334	BMT-N.05	SINGLE SIDE PRELAM SOLID PANEL PVC DOOR FRAME (CHOUKHAT): Providing and fixing factory made Pac single side Prelam door frame of the size 50X47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid Pac single side prelam sheet, meter cut at two corners and joined with 2nos. of 150mm long brackets of 1515mm MS.Square tube. The two vertical door profiles are to be reinforced with 19X19mm MS. square tube of 19guage. The door frame shall be fixed to the wall using 65/100mm long MS. Screws through the frame by using Pac fasteners. a minimum of 4nos. of screws to be provided for each vertical member and minimum 2nos. for horizontal member etc. complete as per manufacture specification and direction of Engineer-in-charge.	1 Rm	330
675	MAT-01361	BMT-N.32	Supply and fixing of door frame made of hollow extruded PVC section having dimensions of 40 X 57mm with the wall thickness of 2mm +/- 0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metri-cut/ welded. PVC DOOR FRAME	1 RM	237
676	MAT-01362	BMT-N.33	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	186
677	MAT-01363	BMT-N.34	Supply & fixing of Door frames made of all formed sections of 1.25mm thick CRCA section, size should be 50x60mm with 32mm rebate. The corner of the frame should be welded. The frame should be painted with one coat of primer and finished painted with pure polyester paint. The frame should be provided with approved quality butt hinges of 3 Nos. complete for finished item.: Single shutter 3'-0" x 7'-0" (914.4x2133.6mm) outer frame section size of 50 x 60 mm	1RM	197

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
678	MAT-01364	BMT-N.35	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	200
679	MAT-01365	BMT-N.36	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	225
680	MAT-01366	BMT-N.37	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	231
681	MAT-01367	BMT-N.38	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,	1 RM	690

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
682	MAT-01368	BMT-N.39	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	410
683	MAT-01383	BMT-N.54	Providing & fixing internal prelaminated 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	1 RM	550

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			frame by using PVC fasteners with a minimum of 3 nos of screws provided for each vertical member and two nos. for horizontal, etc complete as per drawing and direction of Engineer in Charge		
684	MAT-01401	BMT-N.72	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.	196
685		BMT-N.83	Providing and fixing factory made solid Wood Polymer Composite (WPC) single extruded Door Frame section of size with encapsulation of 8MM rigid layer on all the six surfaces. The door frame will have a rebat of 32MM.		
686	MAT-05434	BMT-N.83.A	Door Frame section of 45x75 MM . The two Vertical members are to be joined together with the horizontal member using 8x50 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	506
687	MAT-05435	BMT-N.83.B	Door Frame section of 45x90 MM . The two Vertical members are to be joined together with the horizontal member using 8x60 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	645

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
688	MAT-05436	BMT-N.83.C	Door Frame section of 63.5x100 MM .The two Vertical members are to be joined together with the horizontal member using 8x75 MM long MS Star full thread screws to be used with reverse forward speed control hand drilling machine. The ready/assembled door frame is fixed to the wall using hold fast or bolt fasteners. A minimum of 4 No.s of screws to be provided for each vertical member & minimum 2no.s for horizontal member.	1 Rm	805
689	MAT-05433	BMT-N.82	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. (a) 6 Nos M.S. Z. Type hold fasts made of 30mm x 3 mm MS flat of 230mm long, 3 Nos each side expandable PVC covered screw type fasteners. (b) 2.5 mm x 300 mm long 'T' hinges / 2.5mm x 50 mm x 100mm two way but hinges (3 Nos for single leaf or 2 Nos for Double leaf /leaf) (c) 12 mm Dia MS tie rod at bottom with necessary size of nuts on either side.	1 RM	407
		II.SUB-SECTION	DOOR SHUTTERS WITHOUT FRAMES		
690	MAT-01341	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	1790
691	MAT-01342	BMT-N.13	Flush door shutters, solid bond wood block board type with teak ply on both	1 sqm	1860

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			faces.: 30 mmthick conforming to IS:2202		
692	MAT-01343	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	2031
693	MAT-01344	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	1041
694	MAT-01345	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	1232
695	MAT-01346	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	1396
696	MAT-01347	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	1564
697	MAT-01348	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	1960
698	MAT-01349	BMT-N.20	Flush door shutters, solid bond wood block board type with teak veneer on one face and commercial ply on another face (lipping): 25 mmthick conforming to IS:2202	1 sqm	1893
699	MAT-01350	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	2096
700	MAT-01351	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	2285
701	MAT-01352	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	2612
702	MAT-01354	BMT-N.25	Supply and fixing Cement Bonded Particle Board (IS 14276) single door	1 Sqm	1889

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
703	MAT-01355	BMT-N.26	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	2654
704	MAT-01408	BMT-N.79	Supply and fixing of CEMENT BONDED PARTICLE BOARD double door shutter using 16 MM CEMENT BONDED PARTICLE BOARD LAM with all round "U" section size of 20mm x 18mm x20mm 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	1 Sqm	2687

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			of all materials at site labor charges etc., complete finished item of work.		
705	MAT-01359	BMT-N.30	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" intervals. The hardware consists of 250mm long aldrops – 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 transportation charges.	1 Sqm	2205
706	MAT-01392	BMT-N.63	Supply and fixing of 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 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	1350
707	MAT-01356	BMT-N.27	Supply and fixing of Cement Bonded Particle Board (IS 14276) LAM double door shutter using 16 MM 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 of all materials at site labour charges etc., complete finished item of work.	1 Sqm	1939
708	MAT-01376	BMT-N.47	Moulded panel solid core flush doors using water-resistant hardwood fibre	1 Sqm	1637

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			HDF / MDF fibre boards skins of 2.5 mm thick doors - 30 mm thick		
709	MAT-01377	BMT-N.48	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	1810
710	MAT-01378	BMT-N.49	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 30 mm thick	1 Sqm	1350
711	MAT-01379	BMT-N.50	Solid core membrane flush doors using rigid PVC membrane of 0.3 mm thick of different elegant shades doors - 35 mm thick	1 Sqm	1502
712	MAT-01335	BMT-N.06	Providing and fixing 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER consisting of solid core single leaf flush door of 30mm thickness, lipped with 15mm (5mmX3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different panel and / or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing	1 sqm	2726
713	MAT-01360	BMT-N.31	Supply and fixing of door shutters made of rigid PVC extruded hollow section of 20mm X 200 mm with the wall thickness of 1.0mm +/- 0.1mm equally divided into 4 no's with tongue and groove locking arrangements. The shutter frame is made of 30mm X 79mm with the wall thickness of 1.5mm +/-0.15mm section mitre-cut and joined at 4 corners with 125mm X 225mm plastic brackets. The shutter shall be horizontally reinforced with 2 no's of 8mm PVC rods. Teak wood batons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed onto the door shutter.	Sqm.	1690

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
714	MAT-01381	BMT-N.52	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	1400
715	MAT-01393	BMT-N.64	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	1160
716	MAT-01397	BMT-N.68	Providing of 35mm thick Facotry made Prelaminated ABS (Acrolonitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size 0.45mm on the vertical sides.for each shutter and ISI make S.S round lock complete for finished item of work	1 Sqm	6200
		III.SUB-SECTION	DOORS WITH SHUTTERS & FRAMES		
717	MAT-01331	BMT-N.02	Providing and fixing 30mm thick Solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19	1 Sqm	2270

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 .		
718	MAT-01332	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 Prelam Pac 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 450 angle on either side forming stiles; and 5mm thick, 95mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered in 450 on the inner side to form top and bottom rail 115mm wide Prelam Pac sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10mm (5mmX2) thick, 20mmwide cross Pac sheet shall be provided as gap insert for top and bottom rail. Panelling of 5mm thick both side Prelam Pac sheet to be fitted in the MS. Frame welded/ sealed to the stiles	1 sqm	2515

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			& 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.		
719	MAT-01333	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 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	2198
720	MAT-01336	BMT-N.07	MOULDED PVC DOOR - WOOD FREE Providing and fixing 30mm thick 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	1 sqm	2265

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
721	MAT-01337	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 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 90° on the inner side to from top and bottom rail and 130mm wide PVC sheet out of which 100mm shall be flat and 154mm shall be bent in 90° 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	1 sqm	2000

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			both side of G.I. wire mesh interior at the top, bottom & lock rail. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawings		
722	MAT-01394	BMT-N.65	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	1600
723	MAT-01357	BMT-N.28	Providing and fixing of door frame made from cold roll formed sections made of galvanized (Base steel as per IS277 with zinc of 120 Gms/sqm) colour coated steel sections with total coated thickness of 1mm, primer coated with epoxy primer coat of 5-7 microns thick, finish paint with polyester paint of 12-16 microns. The Section for door frame is to be filled with polyurethane (P.U) form of 40kg/m3. Overall size of frame section should be of 50mm x 50mm. With necessary corner brackets, stiffeners, hinges, and screws. Cement Bonded particle board shutter "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 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	1 Sqm	3488

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			for finished item of work		
-		-	DOORS FRAMES (COLOUR COATED STEEL SECTIONS) & SHUTTER USING CEMENT BONDED PARTICLE BOARD AS PER IS 14276:	-	
724 TO 727		BMT-N.40 to BMT-N.43	ITEM DELETED		
728	MAT-01373	BMT-N.44	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	910
729	MAT-01374	BMT-N.45	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	1 Sqm	9348

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
730	MAT-01375	BMT-N.46	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	9971
731	MAT-01380	BMT-N.51	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	1 Sqm	2750

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
732	MAT-01382	BMT-N.53	Supplying & fixing SINGLE PANEL 30 mm thick PVC DOOR, door shutters with shutter frame and Infill panel made from PVC material, the shutter frame made out of PVC extruded sections having overall dimensions of 60mm x 30 mm with wall thickness of 1.3 mm ± 0.3 mm, with the Infill panel made out of multi chambered seamless hollow PVC extruded panel having overall dimensions of 610 mm x 20 mm having wall thickness 1 mm ± 0.2 mm with the shutter frame meter cut and joined at corners and all the hardware locations reinforced with special polymeric bars as per drawing including providing special PVC braket on hinge side, etc complete	1 Sqm	2350
733	MAT-01384	BMT-N.55	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	1 Sqm	9902

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			(Profile 102x76x3mm thick).Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, etc for industrial, commercial, residential, cleanroom applications		
734	MAT-01385	BMT-N.56	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	18566
735	MAT-01386	BMT-N.57	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	1 Sqm	11758

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
736	MAT-01387	BMT-N.58	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 door conforming to IS:3614 (Part2) 1992	1 Sqm	11140
737	MAT-01388	BMT-N.59	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	1 Sqm	17681

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
738	MAT-01389	BMT-N.60	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	1 Sqm	16186

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
739	MAT-01390	BMT-N.61	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	13329
740	MAT-01391	BMT-N.62	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	1 Sqm	21041

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
741	MAT-01395	BMT-N.66	ITEM DELETED		
742	MAT-01396	BMT-N.67	<p>A) Specification for Foamed PVC Door Frame & ABS Shutters: 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 no's to be provided for each vertical member, GI stiffners of ("U" chanel of size 29x9x1mm, 150mm long) -3 no's at hinge point, Frame reinforcement of ("U" GI chanel of size 46x22x.06mm), Bottom tie rod of ("U" GI chanel size of 15x15x1mm) etc. complete as per manufacturers specification for finished item of work. Maximum door frame size : 980 x 2070 .</p> <p>B) Providing of 35mm thick Facotry made Prelaminated ABS (Acrolynitrile Butadyne Styrene) Door shutter moulded in different designs, consisting of all round Frame made out of water proof solid foam PVC bar of size 20x32mm, reinforced by 32x 32mm - 2 nos. for vertical made out of LVL (Laminated Veneer Lumber), core material of 32 mm thick high density craft paper honey comb board, sandwiched on both sides with prelaminated ABS sheet thickness of 1.5mm . PVC edge banding of size</p>	Each	14189

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos. for each shutter and ISI make S.S round lock completes for finished item of work. Maximum shutter size of : 910 x 2030 mm		
743	MAT-01398	BMT-N.69	Supply and fixing of Bath room / Toilet door shutter with 16mm laminated (IS 14276) door shutter with all-round 'U' 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	1 Sqm	2265
744	MAT-01399	BMT-N.70	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 laminated 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	3230
745	MAT-01402	BMT-N.73	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	Sqm.	960

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
746	MAT-01403	BMT-N.74	The shutter frame made out of PVC extruded 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	1924
747 to 750		BMT-N.75 to BMT-N.78	ITEMs DELETED		
751	MAT-01338	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	350
752	MAT-01339	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	375
753	MAT-01340	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	431
754		BMT-N.84	Providing and fixing factory made uPVC		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<p>white colour casement/Casementcum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to Upvc profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G. fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealant .</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
755	MAT-05437	BMT-N.84.A	Casement door with 3D hinges made of (big series) frame 67x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm).	1 sqm	8217
756	MAT-05438	BMT-N.84.B	Casement door with top hung ventilator with 3D and S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame	1 sqm	8395

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			67 x 64 mm, sash 67 x 110 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.(Area of doorupto 2.50 sqm)		
757		BMT-N.85	<p>Providing and fixing factory made uPVC white colour sliding glazed doorcomprising of uPVC multi-chambered frame with in-built roller track andsash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanizedmild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVCextruded glazing beads, uPVC extruded interlock and uPVC extrudedInline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy(white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmissiongear with keeps, zinc alloy (white powder coated) crescent lock (ifrequired), stainless steel (SS 304 grade) body with adjustable doublenylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steelscrews etc. Profile of frame & sash shall be mitred cut and fusion weldedat all corners, including drilling of holes for fixing hardware's and drainageof water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backerrod of required size and of approved quality, all complete as per approveddrawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes,wire mesh and silicon sealent .</p> <p>Note: For uPVC frame and sash extruded profiles minus 5% tolerancein dimension i.e. in depth & width of profile shall be acceptable. Variationin profile dimension in higher side shall be accepted but no extra payment on this account shall be</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			made.		
758	MAT-05439	BMT-N.85.A	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	1 sqm	5404
759	MAT-05440	BMT-N.85.B	Three track three panels sliding door with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	1 sqm	6996
760	MAT-05441	BMT-N.86	Providing and fixing of factory made of High Density High Moisture Resistant Wood Fibre (HDHMR) single shutter Duradoor made up of FRAME: Door frame manufactured with High Density High Moisture Resistant Wood Fibre (HDHMR) of 36mm width x 100mm depth, laminated with 0.2mm thick PVC Foil using hot press and PUR adhesive, fitted with Gasket for energy efficiency and noise protection, affixed to the wall using high strength expandable PU Foam/ self-expandable wall fixing screws. Max dimensions in MM of 280 (depth) x 2440 (height) SHUTTER: Factory made 41mm thick shutter sandwiched with High Density High Moisture Resistant Wood Fibre (HDHMR) of 5.5mm thick skin on both sides and HDHMR of 30mm thickness as skeleton, core of high density Honey Comb and Laminated Veneer Lumber (LVL) for holding the lock body and hardware, laminated with 0.2mm thick PVC Foil and edge-banded with 1mm thick PVC edge-band using hot press and PUR adhesives. Max dimensions in MM of 1200 (width) x 41 (thickness) x 2400 (height), ARCHITRAVE: Factory made Architrave of size 80mm x 12mm fitted to pre-made grooves within the frame for added aesthetics. Four design variants available, made with Density High Moisture Resistant Wood	1 sqm	11249

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			Fibre(HDHMR) of different thicknesses depending on the design variant, laminated with 0.2mm thickPVC Foil using hot press and PUR adhesive, fitted to the wall using strong quick actingadhesives. HARDWARE & ACCESSORIES: Imported hardware including door handles – 1 no, cylindrical magnetic lock -1 no ,SS hinges – 3 nos. Including cost and conveyance of all material, Hardware, Labour charges and transportation complete for finished item of work		
761	MAT-05442	BMT-N.87	Supply and fixing of Bath/Toilet Door frame and shutter with 8mm laminated (IS.15786)using with 50mmx35mmx1.3mmthick aluminum door frame of weight 220grm per Rft with a rebate of 30 mm for provision for shutter , shutter made with 45mmx25mmx1.3mm thick aluminum section of weight 210grms per Rft with 8mm groove to accommodate 8mm thick laminated (IS.15786) and shutter having 3nos of ss 304gr Butt hinges of 100mm long, 100mm aluminum handles -2nos, and also 2 nos of 200mmx12mm aluminum aldrops ,the rates inclusive of all labor fixing at site and 50microns Ivory powder coated for aluminum door frame and shutter sections etc complete finished item of work .	1 sqm	4872
762	MAT-05443	BMT-N.88	Providing and fixing 28 -30 MM thick solid Wood Polymer Composite(WPC) single extruded door shutter with 3MM top and bottom rigid layer with an overall density of 750kg/Cum. It will be fixed to the frame using 3 inch /4 inch hinges. A minimum of 4 hinges will be required for fixing the door with the frame	1 sqm	3030
		IV.SUB-SECTION	CUP-BOARD DOORS		
763	MAT-01353	BMT-N.24	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,	1 sqm	2210

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
764	MAT-01358	BMT-N.29	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 ¾" x ¾" , 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	3540
765	MAT-01400	BMT-N.71	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	3710
		P.SECTION	WINDOWS (Landing cost – including loading, cost of conveyance, unloading)		
		I.SUB-SECTION	OPENABLE WINDOWS		
			Supply and fixing of pre-painted steel openable windows base steel as per IS 513 of -0.58 mm thick 'D' quality, galvanized as per IS 277 , finish painted with a polyester paint of 12-16 microns		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 with 5 mm thick plain float glass fitted with Ethyl propylene Diamine monomer Gasket (EPDM) and handle made of high grade aluminium powder coated with 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 .		
766	MAT-01409	BMT-P.01	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	5742
767	MAT-01410	BMT-P.02	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	5742
768	MAT-01411	BMT-P.03	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	6074
769	MAT-01412	BMT-P.04	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	5907
770	MAT-01413	BMT-P.05	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	5907
771	MAT-01414	BMT-P.06	Windows: Double shutter 4'-6" x 4 '-6" (1371.6x1371.6mm) 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	1 Sqm	5411
772	MAT-01415	BMT-P.07	Windows: Centre fixed both side operable 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	5411
773	MAT-01416	BMT-P.08	Windows: Centre fixed both side operable shutter 6'-0" x 4'-0"	1 Sqm	5411

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			(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		
774	MAT-01417	BMT-P.09	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	5411
			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, 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.		
775	MAT-01424	BMT-P.16	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	5245
776	MAT-01425	BMT-P.17	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	5576
777	MAT-01426	BMT-P.18	Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x	1 Sqm	5576

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			1219.2mm) outer frame section size of 48x50mm shutter frame section size of 48 x 25 mm and mullion section should be of 48x50mm.		
778	MAT-01427	BMT-P.19	Centre fixed both side openable shutter window 5'0"x4'0" (1524mm x1219.2mm). 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	4914
779	MAT-01428	BMT-P.20	Centre fixed both side openable shutter window 6'0"x4'0" (1828.8mm x1219.2mm). 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	4914
			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 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		
780	MAT-01429	BMT-P.21	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	6956

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
781	MAT-01430	BMT-P.22	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	7288
782	MAT-01431	BMT-P.23	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	7288
783	MAT-01432	BMT-P.24	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	6625
784	MAT-01433	BMT-P.25	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	5797
785	MAT-01438	BMT-P.30	ITEM DELETED		
786	MAT-01439	BMT-P.31	ITEM DELETED		
787	MAT-01440	BMT-P.32	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	1 Sqm	5168

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 - 1220 x 1372 or below size		
788	MAT-01441	BMT-P.33	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 - 1530 x 1372 or above size	1 Sqm	4630
789	MAT-01442	BMT-P.34	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	1 Sqm	6493

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 - 1220 x 1372 or below size		
790	MAT-01443	BMT-P.35	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 - 1530 x 1372 or above size	1 Sqm	5969
791	MAT-01444	BMT-P.36	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	1 Sqm	4333

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
			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.		
792	MAT-01454	BMT-P.46	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	4625
793	MAT-01455	BMT-P.47	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	4917
794	MAT-01456	BMT-P.48	Double openable shutter window size of 4'0" x 4'0" (1219.2mm x 1219.2mm)	1 sqm	4917

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
795	MAT-01457	BMT-P.49	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	4333
796	MAT-01458	BMT-P.50	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	4333
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
			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.		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
797	MAT-01459	BMT-P.51	Single openable shutter window size of 2' 0" x 4' 0" (609.6 x 1219.2mm) outer frame Double rebate section size of 100 x 45mm, Glazed and flymesh shutter profile section size of 52 x 25mm	1 sqm	6135
798	MAT-01460	BMT-P.52	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	6426
799	MAT-01461	BMT-P.53	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	6426
800	MAT-01462	BMT-P.54	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	5843
801	MAT-01463	BMT-P.55	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 100 x 60 mm , beading section size of 9 x 12mm to be provided for glass holding	1 sqm	5843
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
802	MAT-01481	BMT-P.73	ITEM DELETED		
			Supplying and fixing of WINDOWS with Pre laminated Cement Bonded Particle boards and Pre-Painted Steel Sections (PPS)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		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 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 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.		
803	MAT-01484	BMT-P.76-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	5237
804	MAT-01485	BMT-P.76-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	5287
805	MAT-01486	BMT-P.76-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	5499

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
806	MAT-01487	BMT-P.76-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	5086
		II.SUB-SECTION	SLIDING WINDOWS		
807	MAT-01434	BMT-P.26	Providing and fixing Pre painted Steel sliding Window/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 Gms./ Sq.mtr) with total coated thickness of 0.58mm. Primer Coat with epoxy primer of 5-7 microns thick, finished paint 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. The External Section for two track Sliding Window should be of 44 x 59mm with a provision for bottom track insert profile of 10x9 mm made of aluminium. Section for Window glass shutter should be of 35x49mm , Section for Window Euro groove should be of 25x24mm made of plastic to accommodate standard accessories, and section for window lap strip should be of 21x4mm made of plastic. Section for Door shutter should be of 35x67mm, Section for Door Euro Groove 25x31mm made of plastic to accommodate standard accessories and size of lap strip should be of 39x41mm. The Window/Door to be panelled with 5mm thick plain float glass. The gaskets are to be made of Ethyl Propylene Diamine Manomer [EPDM]. Corner Brackets for internal and external frame to be made of glass filled nylon. Touch lock to be provided for Window Shutter. Sections are to be cut to length, joined and assembled by means of corner brackets. The above frame to be fixed to Brick/Concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm screws into the caps through frames. The Grill for safety for windows to be made of 10mm thick square rod bars with 152mm pitch for	1 Sqm	6166

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			complete item of work . For Door there will be no Safety Grill including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work.		
808	MAT-01435	BMT-P.27	ITEM DELETED		
809	MAT-01436	BMT-P.28	ITEM DELETED		
810	MAT-01437	BMT-P.29	ITEM DELETED		
811	MAT-01445	BMT-P.37	Providing and fixing COMPOSITE SLIDING WINDOW fabricated from roll formed sections made of Galvanized Steel colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams /Sq.Mtr.) with total coated thickness of 0.58 mm, powder coated with pure Polyester Powder up to 50-60 microns thick and the section for external frame bottom of 68 x 25mm (Aluminium), External frame sides & Top of 68 x 25 mm (Aluminium), section for shutter of 59 x 23mm and Lap Strip of 30 x 7.5mm (uPVC) cut to length and mitre joined with L-bracket and 5 mm plain float 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) completed for finished item of work	1 Sqm	5411
			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 0.58 mm for Outer Frame and 0.58 mm thickness for Sliding Shutter Section, the Outer Frame for Two Tracks with Grill		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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 0.58 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.		
812	MAT-01446	BMT-P.38	a) Window with Two Sliding Shutters and without Grill Outer Frame Size 75 mm x 50 mm.	1 Sqm	5411
813	MAT-01447	BMT-P.39	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	5647
			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 0.58 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		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
			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.		
814	MAT-01448	BMT-P.40	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	5647
815	MAT-01449	BMT-P.41	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	6183
816	MAT-01450	BMT-P.42	iii) Center Fly mesh Shutter Sliding: Section for Fly mesh Shutter frame should be of size 20mm x 40mm of 0.58mm thick and fitted with SS mesh (304 Grade). The supporting guide section of size 29mm x 20mm of 0.58mm thick at the bottom and 15mm x 19mm of 0.58mm thick at the top fixed horizontally to the Fly mesh frame and slides along the bottom and top guide tracks made of sections size 20mm x 20mm of 0.58mm and 29mm x 20mm of 0.58mm.	1 Sqm	6183

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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.		
817	MAT-01451	BMT-P.43	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	5064
818	MAT-01452	BMT-P.44	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	5541
819	MAT-01453	BMT-P.45	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	5541
820 to 822		BMT-P.70 to P.72	ITEM DELETED		
823		BMT-P.78	Providing and fixing factory made uPVC white colour casement/casementcum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from rollforming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<p>dimension, EPDMgasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size forfixing frame to finished wall, plastic packers, plastic caps and necessarystainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusionwelded including drilling of holes for fixing hardware's and drainage ofwater etc. After fixing frame the gap between frame and adjacent finishedwall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approveddrawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealant .</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5%tolerancein dimension i.e. in depth & width of profile shall be acceptable.Variation in profile dimension in higher side shall be acceptedbut no extra payment on this account shall be made.</p>		
824	MAT-05444	BMT-P.78.A	<p>Casement window double panels with top fixed with S.S. frictionhinges (350 x 19 x 1.9 mm) made of (small series) frame47 x 50mm, sash 47 x 68 mm & mullion 47 x 68 mm allhaving wall thickness of 1.9 ± 0.2 mm and single glazing beadofappropriate dimension. (Area of window upto 2.50 sqm).</p>	Sqm	6283.00
825	MAT-05445	BMT-P.78.B	<p>Casement cum fixed panel window having both end single casement panel, middle fixed panels and at top completely fixed ventilator with S.S friction hinges (350 x 19 x 1.9) madeof (big series) frame 67 x 60 mm , sash 67 x 80 mm &mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead/double glazing bead of appropriatedimension. (Area of window above 3.00 sqm upto 5.00 sqm).</p>	Sqm	6517.00
	MAT-05446	BMT-P.79	<p>Providing and fixing factory made uPVC white colour fixed glazed windows / Ventilators comprising of uPVC multi-</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			<p>chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicone sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes and silicon sealant.</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
826			Fixed windows / Ventilators made of (small series) frame 47 x 50mm & mullion 47 x 68 mm both having wall thickness of 1.9 ±0.2 mm and single glazing bead of appropriate dimension.	1 Sqm	5830.00
827		BMT-P.80	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white</p>		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screw setc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes, wire mesh and silicon sealant . Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.		
828	MAT-05447	BMT-P.80.A	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	1 Sqm	6038.00
829	MAT-05448	BMT-P.80.B	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	1 Sqm	8058.00
830	MAT-05449	BMT-P.80.C	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension . (Area of window above 1.75 sqm)	1 Sqm	6220.00

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			upto 2.50 sqm).		
831	MAT-05450	BMT-P.81	<p>Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from rollforming process of required length (shape & size according to uPVCprofile), appropriate dimension of uPVC extruded glazing beads, uPVCextruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle onone side of extreme panel along with zinc plated mild steel multi pointlocking having transmission gear with keeps, zinc alloy (white powdercoated) touch lock with hook (if required for wire mesh panel), stainlesssteel (SS 304 grade) body with adjustable double nylon rollers (weightbearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixingframe to finished wall and necessary stainless steel screws etc. Profileof frame & sash shall be mitred cut and fusion welded at all corners,including drilling of holes for fixing hardware's and drainage of water etc.</p> <p>After fixing frame the gap between frame and adjacent finished wall shallbe filled with weather proof silicon sealent over backer rod of requiredsize and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge inclusive of cost of Single / double glass panes, wire mesh and silicon sealent .</p> <p>Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above2.50 sqm upto 4.00 sqm.)</p> <p>Note: For uPVC frame and sash extruded profiles minus 5% tolerancein dimension i.e. in depth & width of profile shall be</p>	1 Sqm	6174.00

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			acceptable.Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.		
		III.SUB-SECTION	VENTILLATORS		
			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.		
832	MAT-01464	BMT-P.56	Single openable ventilator shutter size of 2' 0" x 2' 0" (609.6 x 609.6mm) outer frame section size of 80 x 45mm, shutter frame section size of 52 x 25mm thick	1 sqm	5550
833	MAT-01465	BMT-P.57	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	5550
834	MAT-01466	BMT-P.58	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	5550
835	MAT-01467	BMT-P.59	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	3797

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
836	MAT-01468	BMT-P.60	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	3797
837	MAT-01469	BMT-P.61	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	3797
			Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish		
			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.		
838	MAT-01470	BMT-P.62	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	6865
839	MAT-01471	BMT-P.63	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	1 sqm	6865

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			shutter frame section size of 52 x 25mm, vertical mullion section size of 100 x 60 mm		
840	MAT-01472	BMT-P.64	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	6865
841	MAT-01473	BMT-P.65	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	4625
842	MAT-01474	BMT-P.66	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	4625
843	MAT-01475	BMT-P.67	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	4625
			<i>Note: The above rates are for normal finish, 10% extra may be allowed for Wood Grain finish</i>		
			Supplying and fixing of Top Hung 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, The Ventilator to be panelled 4 mm pinhead glass with Ethyl propylene Diamine monomer Gasket (EPDM) and the sections cut to length mitre joined with corner bracket 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		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			wall by means of self expanding screws including 10 mm square guard bars with 6" pitch complete for finished item of work.		
844	MAT-01418	BMT-P.10	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	6295
845	MAT-01419	BMT-P.11	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	6295
846	MAT-01420	BMT-P.12	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 46x 46 mm Mullion section size of 46 x 70 mm	1 Sqm	6295
			Supplying and fixing of 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, The section for louvered ventilators should be of of 33 x 56 mm Box section paneled with 4 mm pinhead glass with Ethyl propylene Diamine monomer Gasket (EPDM) and the sections cut to length mitre joined with corner bracket . corner brackets made of CRCA with Zinc Phosphate. The frames to be 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.		
847	MAT-01421	BMT-P.13	Ventilators: Fixed louvers 2'-0" x 2'-0" (609.6x609.6mm)(Box section) outer frame section size of 33 x 56 mm	1 Sqm	4306
848	MAT-01422	BMT-P.14	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	4306
849	MAT-01423	BMT-P.15	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	4306

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
850 to 853		BMT-P.68 to P.75	ITEMS DELETED		
854	MAT-01488	BMT-P.77	<p>Providing and fixing 3 Track 3 Shutter Pre painted Steel sliding Window/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 Gms./ Sq.mtr) with total coated thickness of 0.58mm. Primer Coat with epoxy primer of 5-7 microns thick, finished paint 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. The External Section for Three Track Three Sliding Shutter should be of 44 x 107mm with a provision for bottom track insert profile of 10x9 mm made of aluminium. Section for Window glass shutter should be of 35x49mm , Section for Window Euro groove should be of 25x24mm made of plastic to accommodate standard accessories, and section for window lap strip should be of 21x4mm made of plastic. Section for Mesh Shutter should be of 35x49mm. Section for Door shutter should be of 35x67mm, Section for Door Euro Groove 25x31mm made of plastic to accommodate standard accessories and size of lap strip should be of 39x41mm. The Window/Door to be panelled with 5mm thick plain float glass. The gaskets are to be made of Ethyl Propylene Diamine Manomer [EPDM]. Corner Brackets for internal and external frame to be made of glass filled nylon. Touch lock to be provided for Window Shutter. Sections are to be cut to length, joined and assembled by means of corner brackets. The above frame to be fixed to Brick/Concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm screws into the caps through frames. The Grill for safety for windows to be made of 10mm thick square rod bars with 152mm pitch for complete item of work . For Door there will be no Safety Grill including cost and conveyance of all materials, accessories, labour charges for</p>	1 Sqm	6818

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			transportation, erection at site complete for finished item of work.		
		Q.SECTION	STRUCTURAL GLAZING		
		I.SUB-SECTION	FIXED GLAZING		
854	MAT-01496	BMT-Q.08	ITEM DELETED		
855	MAT-01497	BMT-Q.09	ITEM DELETED		
		II.SUB-SECTION	STRUCTURAL GLAZING		
856	MAT-01489	BMT-Q.01	<p>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.</p>	1 Sqm	6625

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
857	MAT-01490	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	5355
		III	CURTAIN WALLING		
858	MAT-01491	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	1 Sqm	5466

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
859	MAT-01492	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	5466
860	MAT-01493	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	4295
861	MAT-01494	BMT-Q.06	Mullion section size of 46 x 70mm Beading section size of 18 x 25 mm Fixed Glazing 3'-0" x 4'-0" (914.4x1219.2mm) grid outer frame section size of 46 x 52 mm	1 Sqm	4295
862	MAT-01495	BMT-Q.07	ITEM DELETED		
		S.SECTION	DISMANTLING clearing away and carefully stacking materials useful for reuse.		
863	MAT-01498	BMT-S.01	Stone masonry in cement mortar	1 Cum	390
864	MAT-01499	BMT-S.02	Terracing work in roofs or floors	10 Sqm	165
865	MAT-01500	BMT-S.03	Flat stones in roof or floors including lifting	10 Sqm	143
866	MAT-01501	BMT-S.04	Pan tiled or Mangalore tiled roof without roof timbers.	10 Sqm	120
867	MAT-01502	BMT-S.05	Flat and pan tiles or Mangalore tiles over flat tiles without roof timbers	10 Sqm	143
868	MAT-01503	BMT-S.06	Wrought and framed timber in roofs or floors	1 Cum	206
869	MAT-01504	BMT-S.07	Old lime mortar plaster	10 Sqm	44
870	MAT-01505	BMT-S.08	Old cement mortar plaster	10 Sqm	55
871	MAT-01506	BMT-S.09	Dry rough stone revetment for aprons and stacking within 40 M lead	1 Cum	65
872	MAT-01507	BMT-S.10	Revetment for aprons and stacking grouted within 40 lead	1 Cum	48
873	MAT-01508	BMT-S.11	Kadapa slabs or Shahabad stone slabs	10	66

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			flooring on sand bed	Sqm	
874	MAT-01509	BMT-S.12	Through scraping of old plastered surface	10 Sqm	44
875	MAT-01510	BMT-S.13	Washing of plastered surface with soap, soda and water (or with soda lime and water)	10 Sqm	14
876	MAT-01511	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	44
877	MAT-01512	BMT-S.15	Clean removal of cement plaster from walls and raking out joint 200 mm deep	10 Sqm	54
		T.SECTION	READY MIX CONCRETE		DELETED
		U.SECTION	EXPANSION JOINT FILLERS		
878	MAT-01513	BMT-U.01	Supply of high performance expansion joint filler board conforming to M.O.S.T - 18 mm THICK	1 Sqm	656
879	MAT-01514	BMT-U.02	Supply of high performance expansion joint filler board conforming to M.O.S.T - 20 mm THICK	1 Sqm	735
880	MAT-01515	BMT-U.03	Supply of high performance expansion joint filler board conforming to M.O.S.T - 25 mm THICK	1 Sqm	919
881	MAT-01516	BMT-U.04	Supply of expansion joint filler board for buildings, columns, beams and slabs 20 mm THICK	1 Sqm	263
882	MAT-01517	BMT-U.05	Supply of expansion joint filler board for buildings, columns, beams and slabs 25 mm THICK	1 Sqm	329
883	MAT-01518	BMT-U.06	Supply of expansion joint filler board for buildings, columns, beams and slabs 50 mm THICK	1 Sqm	656
884	MAT-01519	BMT-U.07	Supply of back up to cold applied sealant in construction and longitudinal joint - 10 mm OD	1 RM	11
885	MAT-01520	BMT-U.08	Supply of back up to cold applied sealant in construction and longitudinal joint - 12 mm OD	1 RM	13
886	MAT-01521	BMT-U.09	Supply of back up to cold applied sealant in construction and longitudinal joint - 15 mm OD	1 RM	15
887	MAT-01522	BMT-U.10	Supply of back up to cold applied sealant in construction and longitudinal joint - 20 mm OD	1 RM	21
888	MAT-01523	BMT-U.11	Supply of back up to cold applied sealant in construction and longitudinal	1 RM	27

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			joint - 25 mm OD		
		V.SECTION	LABOUR CHARGES		
889	MAT-01524	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	242
890	MAT-01525	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	286
891	MAT-01526	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	334
892	MAT-01527	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	384
893	MAT-01528	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	597
894	MAT-01529	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	721
895	LAB-00418	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	605
896	LAB-00419	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	924

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
897	LAB-00503	BMM-V.09	Rounding the edges of Kadapa / Shahabad stone slabs of any thickness including polishing the same	1 Rm	105
898	LAB-00504	BMM-V.10	Half Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	318
899	LAB-00505	BMM-V.11	Full Rounding the edges of Marble/ Granite stone slabs of all thicknesses including polishing the same.	1 Rm	412
900	LAB-00506	BMM-V.12	Machine Cutting charges - for Marble/ Granite slabs up to 50 mm thick by mechanical device.	1 RM	17
901	LAB-00507	BMM-V.13	Flat nosing to Kadapa/ Shahabad stone slabs of any thick	1 Rm	50
902	LAB-00420	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	27
903	LAB-00421	BMM-V.15	Labour charges for fixing Iron Doors, Iron Windows and Window Grills in position	1 Kg	5
904	LAB-00422	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	24
905	LAB-00423	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	21
906	LAB-00424	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	131
907	LAB-00425	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	1756
908	LAB-00426	BMM-V.20	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Etching works	1 Sqm	955
909	LAB-00427	BMM-V.21	Labour charges for Glass designing	1	1182

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			works on any thickness of Glass including fixing at site - Reverse Etching work	Sqm	
910	LAB-00428	BMM-V.22	Labour charges for Glass designing works on any thickness of Glass including fixing at site - Acid wash works	1 Sqm	1477
911	LAB-00429	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	383
912	LAB-00430	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	286
913	LAB-00431	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	1570
914	LAB-00432	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	1484
915	LAB-00433	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	1302
916	LAB-00434	BMM-V.28	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 Ledged, braced and planked doors including frame	1 sqm	1028
917	LAB-00435	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	785
918	LAB-00436	BMM-V.30	Labour charges for wrought and put up including fixing in position frames of any	1 sqm	1005

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			size, shutters for doors, windows, ventilators including fixing all necessary fixtures etc. for Teak wood Windows glazed including outer frame and shutter frame		
919	LAB-00437	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	1515
920	LAB-00438	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	1034
921	LAB-00439	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	1237
922	LAB-00440	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	833
923	LAB-00441	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	1053
924	LAB-00442	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	592
925	LAB-00443	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	1 sqm	689

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			fixtures etc. for Teak wood G.I or .AC sheet door & windows including outer frame and shutter frame		
926	LAB-00444	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	1452
927	LAB-00445	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	1388
928	LAB-00446	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	1204
929	LAB-00447	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	942
930	LAB-00448	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	754
931	LAB-00449	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	940
932	LAB-00450	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	1401

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
933	LAB-00451	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	957
934	LAB-00452	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	1143
935	LAB-00453	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	810
936	LAB-00454	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	1012
937	LAB-00455	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	563
938	LAB-00456	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	658
939	LAB-00508	BMM-V.51	Grooves 2-3 mm	1 Rm	55
		W.SECTION	MISCELLANEOUS ITEMS		
940	MAT-01575	BMS-W.01	Supplying Aluminium anodised Sections for Doors, partitions, windows, Ventilators (including annodization cost)	1 Kg	306
941	MAT-01576	BMS-W.02	Sun Control film to the glazed windows partition including labour charges.	1 sqm	313

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
942	MAT-01577	BMS-W.03	Aluminium Venetian Blinds horizontal 25.4 mm wide with all accessories.	1 sqm	798
943	MAT-01578	BMS-W.04	Aluminium Venetian Blinds horizontal 20.0 mm wide with all accessories.	1 sqm	760
944	MAT-01579	BMS-W.05	Venetian blinds Vertical blinds 100 mm wide with all accessories.	1 sqm	1290
945	MAT-01580	BMS-W.06	Rubber Beading	1 RM	2
946	MAT-01581	BMS-W.09	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1 Litre	217
947	MAT-01582	BMS-W.10	Soft Brush	Each	141
948	MAT-01583	BMS-W.11	Wire Brush	Each	31
949	MAT-01584	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	2189
950	MAT-01585	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	2387
951	MAT-01586	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,	1 Sqm	2678

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
952	MAT-01587	BMS-W.15	CEMENT JALI - 25 mm thick	1 sqm	191
953	MAT-01588	BMS-W.16	CEMENT JALI - 40 mm thick	1 sqm	248
954	MAT-01589	BMS-W.17	CEMENT JALI - 50 mm thick	1 sqm	340
955	MAT-01590	BMS-W.18	Aluminium sheet 24 Gauge	1 Sqm	256
956	MAT-01591	BMS-W.19	7.5mm thick Aluminium Grill (as approved by the department) 3.58 Kg/Sqm.	1 Sqm	941
957	MAT-01592	BMS-W.20	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1" (25.4 mm) thick	1 Sqm	839
958	MAT-01593	BMS-W.21	Mastic pad 2'0 " x 4'0" (0.60M x 1.2M) of 1/2" (12.7 mm) thick	1 Sqm	481
			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.		
959	MAT-01594	BMS-W.22	Circular sign plate Dia 400mm.	Each.	488
960	MAT-01595	BMS-W.23	Circular sign plate Dia 600mm.	Each.	1284
961	MAT-01596	BMS-W.24	Circular sing plate Dia 870mm	Each.	2574
962	MAT-01597	BMS-W.25	Triangular sign plate 600mm.	Each.	659
963	MAT-01598	BMS-W.26	Triangular sign plate 900mm.	Each.	1489
964	MAT-01599	BMS-W.27	Square sign plate 600mm.	Each.	1194
965	MAT-01600	BMS-W.28	Square sign plate 1000mm.	Each.	4433
966	MAT-01601	BMS-W.29	ITEM DELETED		
			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,		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			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		
967	MAT-01602	BMS-W.30	Steel Structure: - Structure is made up of 50x50X 2.8 mm/33x66x2.8mm thick hollow M.S. sections for Trusses, columns, and purloins. - Columns	1 RM	363
968	MAT-01603	BMS-W.33	Sandwich panels: Sandwich panels of 50 mm thick with 25 mm thermocol of 12 kg / cum, fixed in between 2 Nos 10 mm cement bonded wood particle / fibre boards properly fixed together with 30 mmx30mmx30mm wood pieces along width & length wherever necessary	1 Sqm	1312
969	MAT-01604	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	141
970	MAT-01605	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	204
971	MAT-01606	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	233
972	MAT-01607	BMS-W.37	Window:- windows are made up of 51 x51 mm step 'U' section made from 1.25 mm 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	4211
973	MAT-01608	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	3838
974	MAT-01609	BMS-W.39	Ventilators:- Ventilators are made of	1	4294

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			51x51 mm step 'U' section made From 1.25 mm thick C.R. sheet with fixed louvers and glass.	Sqm	
975	MAT-01610	BMS-W.40	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	1 Sqm	114
976	MAT-01611	BMS-W.41	2) Exterior walls are painted with one coast of primer and 2 coats of exterior emulsion paint .	1 Sqm	102
977	MAT-01612	BMS-W.42	3) Interiors are painted with 1+2 coat of O.B.D.	1 Sqm	85
978	MAT-01613	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	998
979	MAT-01614	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	3364
980	MAT-01615	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 grove.	1 Sqm	760
981	MAT-01617	BMS-W.47	Preparing gabions with jungle wood	Each	3
982	MAT-01618	BMS-W.48	Planting plants	Each	2
983	MAT-01619	BMS-W.49	Pruning plants	Each	3
984	MAT-01620	BMS-W.50	Maintaining avenues including fencing, weeding, mulching, watering etc per plant.	Each	7
985	MAT-01621	BMS-W.51	- do - When scattered in hot weather with extra conveyance from March to June	Each	8
986	MAT-01622	BMS-W.52	Hoisting or lowering of slab	1 cum	111
987	MAT-01623	BMS-W.53	Dressing faces of granite stone (double line dressing)	1 Sqm	183
988	MAT-01624	BMS-W.54	Dressing faces of other than granite	1	114

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			stone(double line dressing)	Sqm	
989	MAT-01625	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	386
990	MAT-01626	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	377
991	MAT-01627	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	339
992	MAT-01628	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	318
993	MAT-01629	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	260
994	MAT-01630	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	232

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
995	MAT-01631	BMS-W.61	75 mm long screws -	1 Each	4
996	MAT-01632	BMS-W.62	G.I scam bolts & nuts	1 Each	5
997	MAT-01633	BMS-W.63	G.I bolts & nuts	1 Each	5
998	MAT-01634	BMS-W.64	G.I 'J' bolts 8 mm dia	1 Each	9
999	MAT-01635	BMS-W.65	G.I Washers	1 Each	2
1000	MAT-01636	BMS-W.66	Limpet washers (for scam & 'J' bolts)	1 Each	2
1001	MAT-01637	BMS-W.67	Bitumen washers	1 Each	2
1002	MAT-01638	BMS-W.68	White Cement	1 Kg	27
1003	MAT-01639	BMS-W.69	MS Z Hold fasts - 300 mm long of 40 x 40 x 5 mm ISA	1 Each	32
1004	MAT-01640	BMS-W.70	Rubber/ Nylon door stop bushes	1 Each	9
1005	MAT-01641	BMS-W.71	Nylon rollers for sliding glasses/ alluminium windows	1 Each	14
1006	MAT-01642	BMS-W.72	Powder coating or colour annodization-any section	1 RM	45
1007	MAT-01643	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	32
1008	MAT-01644	BMS-W.74	Box hinges for cup boards	1 Each	40
1009	MAT-01645	BMS-W.75	Magnetic Catchers	1 Each	14
1010	MAT-01646	BMS-W.76	Drilling holes in hard rock surfaces up to 18mm dia	1 RM	187
1011	MAT-01647	BMS-W.77	Drilling holes in hard rock above 18mm dia	1 RM	261
1012	MAT-01648	BMS-W.78	Making holes up to 18mm dia in RCC/ any stones up to 50 mm thick	1 Each	32
1013	MAT-01649	BMS-W.79	Making holes above 18mm dia in RCC/ any stones above 50 mm thick	1 Each	44
1014	MAT-01650	BMS-W.80	Pressure grouting the drilled holes with neat cement slurry or with approved epoxy bonding agent using pump	1 Each	45
1015	MAT-01651	BMS-W.81	ITEM DELETED		
1016	MAT-01652	BMS-W.82	ITEM DELETED		

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			CASURINA BALLIES / STEEL BARRICADING		
1017	LAB-00552	BMS-W.83	Fixing steel barricading with MS Angle Iron Pegs and GI Pipes with nuts & bolts duly excavating pits and its removal after the function is over including transporting of the entire barricading materials from the Divisional stores to the barricading site duly engaging labour to load, transport and unload the materials at barricading site & as per the schedule given by the departmental authorities and loading back into the trucks, unloading at Divisional stores, accounting for the received materials, labour for loading, unloading, fixing, handling etc, complete for finished item of work		
			2-TIER (3 days)	1 RM	35.01
		BMS-W.84	Providing barricading arrangement with casurina ballies as per the design duly excavating pits and its removal after the function is over including hire charges of the barricading materials a sper the schedule given by the departmental authorities complete for finished item of work		
1018	LAB-00553	BMS-W.84.A	2-TIER (2 days)	1 RM	43.63
1019	LAB-00554	BMS-W.84.B	2-TIER (3 days)	1 RM	43.82
1020	LAB-00555	BMS-W.84.C	2-TIER (4 days)	1 RM	44.00
1021	LAB-00556	BMS-W.84.D	3-TIER (2 days)	1 RM	45.63
1022	LAB-00557	BMS-W.84.E	3-TIER (3 days)	1 RM	45.92
1023	LAB-00558	BMS-W.84.F	3-TIER (4 days)	1 RM	46.20
			Testing charges		
		BMS-W.85	Coarse Aggregates		
1024	LAB-00559	BMS-W.85.A	Gradation Test	1 No.	600
1025	LAB-00560	BMS-W.85.B.	Aggregate Impact Value Test	1 No.	600
1026	LAB-00561	BMS-W.85.C	Flakiness and Elongation Indices Tests	1 No.	700
1027	LAB-00562	BMS-W.85.D	Water absorption Test	1 No.	550
1028	LAB-00563	BMS-W.85.E	Abrasion Test	1 No.	850
1029	LAB-00564	BMS-W.85.F	Specific Gravity Test	1 No.	600
		BMS-W.86	Fine Aggregates		
1030	LAB-00565	BMS-W.86.A	Sieve Analysis Test	1 No.	600
1031	LAB-00566	BMS-W.86.B	Bulking & Moisture content	1 No.	600

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
1032	LAB-00567	BMS-W.86.C	Specific Gravity Test	1 No.	600
		BMS-W.87	Cement		
1033	LAB-00568	BMS-W.87.A	Fineness of cement Test	Each	600
1034	LAB-00569	BMS-W.87.B	Initial & Final setting time of cement	Each	600
		BMS-W.88	Bricks		
1035	LAB-00570	BMS-W.88.A	Compressive strength of Bricks	Each	350
1036	LAB-00571	BMS-W.88.B	Water absorption Test for Brick	Each	550
		BMS-W.89	Concrete		
1037	LAB-00572	BMS-W.89.A.	Compressive strength of concrete i.e Cube strength test	Each	350
1038	LAB-00573	BMS-W.89.B	Design mix of one grade		16000
1038	LAB-00574	BMS-W.89.C	Design mix of Two grades		26000
1040	LAB-00575	BMS-W.89.D	Design mix of three grades		36000
1041	LAB-00576	BMS-W.89.E	Design mix of four grades		43000
1042	LAB-00577	BMS-W.89.F	Design mix of five grades		51000
			Steel		
1043	LAB-00578	BMS-W.90	Tensile Strength of Each Dia 1 set (3 rods)	Each	700
		BMS-W.91	Soils		
1044	LAB-00579	BMS-W.91.A	G.S.B Mix design	Each	5000
1045	LAB-00580	BMS-W.91.B	W.M.M Mix design	Each	6100
1046	LAB-00581	BMS-W.91.C	B.M Mix design	Each	7500
1047	LAB-00582	BMS-W.91.D	SDBC/BC	Each	8100
1048	LAB-00583	BMS-W.91.E	UD samples	Each	1800
1049	LAB-00584	BMS-W.91.F	Soils MDD and CBR	Each	3700
			Note: Item BMS-W.46 is removed in the section W and is brought as new item in the Section N as BMT-N.82.		
		X.	MACHINERY CHARGES, HIRE CHARGES FOR CENTRING		
1050	MAT-01653	BMC-X.01	Machine charges of rubbing/ polishing floor	1 day	1749
1051	HIR-00206	BMC-X.02	Power Saw Cutter - Hand Operated - Hire charges	1 Hr	102
1052	HIR-00207	BMC-X.03	Power Drill - Hand Operated - Hire Charges	1 Hr	95
1053	MAT-01656	BMC-X.04	Grinding Mortar (Spl Grinding)	1 day	874
1054	MAT-01657	BMC-X.05	Casuarina Balli Props - 3" to 4" dia - 12'-0" Height	Each	60
1055	MAT-01658	BMC-X.06	Casuarina Balli Props - 4" to 8" dia - 20'-	Each	99

S. No	CFMS code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
			0" Height		
1056	MAT-01659	BMC-X.07	Wall Plate Brackets / beam bottom supports	Each	174
1057	MAT-01660	BMC-X.08	Wedge Plate fixture	Each	9
1058	MAT-01661	BMC-X.09	Runner beams of approximately 4" x 4" size	RM	347
1059	MAT-01662	BMC-X.10	Steel Plates for form works	1 sqm	1312
1060	MAT-01663	BMC-X.11	Scaffolding Pipes & Centering accessories	1 Kg	99
1061	MAT-01664	BMC-X.12	Scaffold Boards - Bamboo scaffolds - Bamboos - 8'0" long	Each	107
1062	MAT-01665	BMC-X.13	Hire charges for stationary Concrete pump conforming to IS 21573 Part-1: 2006 to deliver the fresh green concrete	1 Hr	280
1063	MAT-01666	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 excluding GST.
- 3 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	Labour charges	Centring Charges for 2019-20	Unit of Measurement
1	2	3	4	5	6
HIRE CHARGES FOR CENTERING & SCAFFOLDING					
A	FOOTINGS	Rs. 288	Rs. 631	Rs. 919	per 1 cum
B	BED BLOCKS, BANDS	Rs. 64	Rs. 341	Rs. 405	per 1 cum
C	PEDESTALS	Rs. 328	Rs. 1004	Rs. 1332	per 1 cum
D	PLINTH BEAMS	Rs. 1390	Rs. 1521	Rs. 2911	per 1 cum
HIRE CHARGES FOR CENTERING & SCAFFOLDING - Unsupported Height upto 3.66 M					
Steel scaffolding pipes, jack Props, wallers, Foot plates, brackets, steel Centering Plates, etc.,					
E	LINTELS	Rs. 1180	Rs. 1615	Rs. 2795	per 1 cum
F	CHAJJAS - SUNSHADES	Rs. 233	Rs. 248	Rs. 481	per 1 sqm
G	COLUMNS	Rs. 355	Rs. 2268	Rs. 2623	per 1 cum
H	BEAMS	Rs. 2085	Rs. 1903	Rs. 3988	per 1 cum
I	SLABS - Up to 150 mm thick	Rs. 236	Rs. 226	Rs. 462	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs. 243	Rs. 233	Rs. 476	per 1 sqm
K	SLABS - above 300 mm thick	Rs. 254	Rs. 244	Rs. 498	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs. 858	Rs. 783	Rs. 1641	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs. 602	Rs. 549	Rs. 1151	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs. 2370	Rs. 2163	Rs. 4533	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs. 2404	Rs. 2193	Rs. 4597	per 1 cum
P	DOME SLABS	Rs. 3833	Rs. 3496	Rs. 7329	per 1 cum
Q	HELICAL STAIRCASES	Rs. 292	Rs. 267	Rs. 559	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	Rs. 790	Rs. 1251	Rs. 2041	per 1 cum
F	CHAJJAS - SUNSHADES	Rs. 156	Rs. 192	Rs. 348	per 1 sqm
G	COLUMNS	Rs. 238	Rs. 1757	Rs. 1995	per 1 cum
H	BEAMS	Rs. 1395	Rs. 1473	Rs. 2868	per 1 cum
I	SLABS - Up to 150 mm thick	Rs. 158	Rs. 175	Rs. 333	per 1 sqm
J	SLABS - above 150 mm - Up to 300 mm thick	Rs. 163	Rs. 181	Rs. 344	per 1 sqm
K	SLABS - above 300 mm thick	Rs. 170	Rs. 189	Rs. 359	per 1 sqm
L	WAFFLE - (GRID) SLABS (Rib Beams with Slabs)	Rs. 575	Rs. 607	Rs. 1182	per 1 sqm
M	PERGOLA SLABS (Only Rib Beams)	Rs. 403	Rs. 425	Rs. 828	per 1 sqm
N	ARCH BEAMS - up to 1.5 M Span	Rs. 1586	Rs. 1675	Rs. 3261	per 1 cum
O	ARCH BEAMS - above 1.5 M Span	Rs. 1609	Rs. 1698	Rs. 3307	per 1 cum
P	DOME SLABS	Rs. 2566	Rs. 2708	Rs. 5274	per 1 cum
Q	HELICAL STAIRCASES	Rs. 196	Rs. 207	Rs. 403	per 1 sqm
R	SHEAR WALLS, RCC WALLS, WATERTANK WALLS	DELETED			

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges	Labour charges	Centring Charges for 2018-19	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	Rs. 10.32	Rs. 79.46	Rs. 89.78	per 1 sqm
B	2nd - Floor	Rs. 10.32	Rs. 113.78	Rs. 124.10	per 1 sqm
C	3rd - Floor	Rs. 10.32	Rs. 148.09	Rs. 158.41	per 1 sqm
D	4th - Floor	Rs. 10.32	Rs. 182.41	Rs. 192.73	per 1 sqm
E	5th - Floor	Rs. 10.32	Rs. 216.72	Rs. 227.04	per 1 sqm
F	6th - Floor	Rs. 10.32	Rs. 251.03	Rs. 261.35	per 1 sqm
G	7th - Floor	Rs. 10.32	Rs. 285.33	Rs. 295.65	per 1 sqm
H	8th - Floor	Rs. 10.32	Rs. 319.65	Rs. 329.97	per 1 sqm
I	9th - Floor	Rs. 10.32	Rs. 353.97	Rs. 364.29	per 1 sqm
J	10th - Floor	Rs. 10.32	Rs. 388.27	Rs. 398.59	per 1 sqm
K	11th - Floor	Rs. 10.32	Rs. 422.59	Rs. 432.91	per 1 sqm
L	12th - Floor	Rs. 10.32	Rs. 456.91	Rs. 467.23	per 1 sqm

M	13th - Floor	Rs.	10.32	Rs.	491.22	Rs.	501.54	per 1 sqm
N	14th - Floor	Rs.	10.32	Rs.	525.52	Rs.	535.84	per 1 sqm
O	15th - Floor	Rs.	10.32	Rs.	559.84	Rs.	570.16	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

SI	NAME OF THE STRUCTURAL MEMBER	Material Hire charges		Labour charges		Centring Charges for 2018-19	Unit of Measurement	
1	2	3		4		5	6	
A	1st - Floor	Rs.	1.03	Rs.	7.95	Rs.	8.98	per 1 sqm
B	2nd - Floor	Rs.	1.03	Rs.	11.38	Rs.	12.41	per 1 sqm
C	3rd - Floor	Rs.	1.03	Rs.	14.81	Rs.	15.84	per 1 sqm
D	4th - Floor	Rs.	1.03	Rs.	18.24	Rs.	19.27	per 1 sqm
E	5th - Floor	Rs.	1.03	Rs.	21.67	Rs.	22.7	per 1 sqm
F	6th - Floor	Rs.	1.03	Rs.	25.10	Rs.	26.13	per 1 sqm
G	7th - Floor	Rs.	1.03	Rs.	28.53	Rs.	29.56	per 1 sqm
H	8th - Floor	Rs.	1.03	Rs.	31.97	Rs.	33	per 1 sqm
I	9th - Floor	Rs.	1.03	Rs.	35.40	Rs.	36.43	per 1 sqm
J	10th - Floor	Rs.	1.03	Rs.	38.83	Rs.	39.86	per 1 sqm
K	11th - Floor	Rs.	1.03	Rs.	42.26	Rs.	43.29	per 1 sqm
L	12th - Floor	Rs.	1.03	Rs.	45.69	Rs.	46.72	per 1 sqm
M	13th - Floor	Rs.	1.03	Rs.	49.12	Rs.	50.15	per 1 sqm
N	14th - Floor	Rs.	1.03	Rs.	52.55	Rs.	53.58	per 1 sqm
O	15th - Floor	Rs.	1.03	Rs.	55.98	Rs.	57.01	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	Rs.	2.46	Rs.	15.91	Rs.	18.37	per 1 sqm
B	2nd - Floor	Rs.	2.46	Rs.	22.57	Rs.	25.03	per 1 sqm
C	3rd - Floor	Rs.	2.46	Rs.	29.23	Rs.	31.69	per 1 sqm
D	4th - Floor	Rs.	2.46	Rs.	35.90	Rs.	38.36	per 1 sqm
E	5th - Floor	Rs.	2.46	Rs.	42.56	Rs.	45.02	per 1 sqm
F	6th - Floor	Rs.	2.46	Rs.	49.22	Rs.	51.68	per 1 sqm
G	7th - Floor	Rs.	2.46	Rs.	55.89	Rs.	58.35	per 1 sqm
H	8th - Floor	Rs.	2.46	Rs.	62.55	Rs.	65.01	per 1 sqm
I	9th - Floor	Rs.	2.46	Rs.	69.22	Rs.	71.68	per 1 sqm
J	10th - Floor	Rs.	2.46	Rs.	75.88	Rs.	78.34	per 1 sqm
K	11th - Floor	Rs.	2.46	Rs.	82.54	Rs.	85	per 1 sqm
L	12th - Floor	Rs.	2.46	Rs.	89.21	Rs.	91.67	per 1 sqm
M	13th - Floor	Rs.	2.46	Rs.	95.80	Rs.	98.26	per 1 sqm
N	14th - Floor	Rs.	2.46	Rs.	102.53	Rs.	104.99	per 1 sqm
O	15th - Floor	Rs.	2.46	Rs.	109.20	Rs.	111.66	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	DOME SLABS	HELICAL STAIR-CASES
Material Hire for any Floor	H	1180	233	355	2085	236	243	254	858	602	2370	2404	3833	292
Labour Charges for 1st Floor	L	1615	248	2268	1903	215	222	232	783	549	2163	2193	3496	267
Total Hire Charges (H+L)	T	2795	481	2623	3988	451	465	486	1641	1151	4533	4597	7329	559
1st - Floor	L	1615	248	2268	1903	215	222	232	783	549	2163	2193	3496	267
2nd - Floor	L	1777	273	2495	2093	237	244	255	861	604	2379	2412	3846	294
3rd - Floor	L	1938	298	2722	2284	258	266	278	940	659	2596	2632	4195	320
4th - Floor	L	2100	322	2948	2474	280	289	302	1018	714	2812	2851	4545	347
5th - Floor	L	2261	347	3175	2664	301	311	325	1096		3028	3070	4894	374
6th - Floor	L	2423	372	3402	2855	323	333	348	1175	824	3245	3290	5244	401
7th - Floor	L	2584	397	3629	3045	344	355	371	1253	878	3461	3509	5594	427
8th - Floor	L	2746	422	3856	3235	366	377	394	1331	933	3677	3728	5943	454
9th - Floor	L	2907	446	4082	3425	387	400	418	1409	988	3893	3947	6293	481
10th - Floor	L	3069	471	4309	3616	409	422	441	1488	1043	4110	4167	6642	507
11th - Floor	L	3230	496	4536	3806	430	444	464	1566	1098	4326	4386	6992	534
12th - Floor	L	3392	521	4763	3996	452	466	487	1644	1153	4542	4605	7342	561
13th - Floor	L	3553	546	4990	4187	473	488	510	1723	1208	4759	4825	7691	587
14th - Floor	L	3715	570	5216	4377	495	511	534	1801	1263	4975	5044	8041	614
15th - Floor	L	3876	595	5443	4567	516	533	557	1879	1318	5191	5263	8390	641

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	DOME SLABS	HELICAL STAIRCASES
Material Hire for any Floor	H	790	156	238	1395	158	163	170	575	403	1586	1609	2566	196
Labour Charges for 1st Floor	L	1251	192	1757	1473	167	172	180	607	425	1675	1698	2708	207
Total Hire Charges (H+L)	T	2041	348	1995	2868	325	335	350	1182	828	3261	3307	5274	403
1st - Floor	L	1251	192	1757	1473	167	172	180	607	425	1675	1698	2708	207
2nd - Floor	L	1376	211	1933	1620	184	189	198	668	468	1843	1868	2979	228
3rd - Floor	L	1501	230	2108	1768	200	206	216	728	510	2010	2038	3250	248
4th - Floor	L	1626	250	2284	1915	217	224	234	789	553	2178	2207	3520	269
5th - Floor	L	1751	269	2460	2062	234	241	252	850	595	2345	2377	3791	290
6th - Floor	L	1877	288	2636	2210	251	258	270	911	638	2513	2547	4062	311
7th - Floor	L	2002	307	2811	2357	267	275	288	971	680	2680	2717	4333	331
8th - Floor	L	2127	326	2987	2504	284	292	306	1032	723	2848	2887	4604	352
9th - Floor	L	2252	346	3163	2651	301	310	324	1093	765	3015	3056	4874	373
10th - Floor	L	2377	365	3338	2799	317	327	342	1153	808	3183	3226	5145	393
11th - Floor	L	2502	384	3514	2946	334	344	360	1214	850	3350	3396	5416	414
12th - Floor	L	2627	403	3690	3093	351	361	378	1275	893	3518	3566	5687	435
13th - Floor	L	2752	422	3865	3241	367	378	396	1335	935	3685	3736	5958	455
14th - Floor	L	2877	442	4041	3388	384	396	414	1396	978	3853	3905	6228	476
15th - Floor	L	3002	461	4217	3535	401	413	432	1457	1020	4020	4075	6499	497
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														

Note:-

- 1) All Materials conforming to ISI or relevant International Standards shall be used in all CIVIL, Water Supply & Sanitary Fittings, Electrical and Electro-Mechanical Works.
- 2) Concerned departments shall approve the materials either from the manufacturer or from its authorized /certified dealer only and also to approve the brands of the products / materials to be adopted in their estimates at their end. In case common approval is required by the committee, concerned authority shall propose with all the details after thorough verification, to the committee for considering the proposal.
- 3) SSR rates for Civil and Water supply & Sanitary items are purely for 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.
- 4) The rates published in the Buildings SoR 2020-21 are the ceiling rates only and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

WATER SUPPLY & SANITARY ITEMS

WATER SUPPLY & SANITARY ITEMS

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
1		2	3	4	5
A			S.W.G. PIPES & FITTINGS		
1	MAT-01667	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	378
2	MAT-01668	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	376
3	MAT-01669	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	559
4	MAT-01670	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	550
5	LAB-00411	BMW-A.05	labour charges only for laying, jointing and testing SWG pipes of any diawith airtight cement joints including excavation of trenches and socket pits in any soil up to 914.4 mm (3'0") depth (except rock requiring blasting) and refilling with watering and tamping.	1 RM	232
6	LAB-00412	BMW-A.06	labour charges only for laying, jointing and testing SWG pipes of any diawith 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	MAT-01671	BMW-A.07	a)Supplying, laying, jointing and testing 152.4 mmCC 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	205
8	LAB-00413	BMW-A.08	b) - do - labour charges only	1 RM	10
9	MAT-01672	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	284
10	LAB-00414	BMW-A.10	b) - do - labour charges only	1 RM	49
11	MAT-01673	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	79

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
12	LAB-00150	BMW-A.12	b) - do - labour charges only	1 RM	37
13	MAT-01674	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	146
14	LAB-00151	BMW-A.14	b) - do - labour charges only	1 RM	51
15	MAT-01675	BMW-A.15	Supply of SWG SP-1 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	153
16	MAT-01676	BMW-A.16	Supply of SWG SP-1 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	266
17	MAT-01677	BMW-A.17	Supply of SWG SP-1 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	411
18	MAT-01678	BMW-A.18	Supply of SWG SP-1 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	752
19	MAT-01679	BMW-A.19	Supply of SWG SP-1 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1084
20	MAT-01680	BMW-A.20	Supply of SWG SP-1 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1475
21	MAT-01681	BMW-A.21	Supply of SWG SP-1 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	1778
22	MAT-01682	BMW-A.22	Supply of SWG SP-1 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2147
23	MAT-01683	BMW-A.23	Supply of SWG SP-2 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	189
24	MAT-01684	BMW-A.24	Supply of SWG SP-2 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	281
25	MAT-01685	BMW-A.25	Supply of SWG SP-2 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	507
26	MAT-01686	BMW-A.26	Supply of SWG SP-2 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	797
27	MAT-01687	BMW-A.27	Supply of SWG SP-2 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1224
28	MAT-01688	BMW-A.28	Supply of SWG SP-2 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1587
29	MAT-01689	BMW-A.29	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	1828
30	MAT-01690	BMW-A.30	Supply of SWG SP-2 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2333
31	MAT-01691	BMW-A.31	Supply of SWG SP-3 Pipe conforming to ISI 651- 4" dia (101.6mm)	1 RM	241
32	MAT-01692	BMW-A.32	Supply of SWG SP-3 Pipe conforming to ISI 651- 6" dia (152.4mm)	1 RM	351
33	MAT-01693	BMW-A.33	Supply of SWG SP-3 Pipe conforming to ISI 651-8" dia (203.2mm)	1 RM	621
34	MAT-01694	BMW-A.34	Supply of SWG SP-3 Pipe conforming to ISI 651- 10" dia (254 mm)	1 RM	944

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
35	MAT-01695	BMW-A.35	Supply of SWG SP-3 Pipe conforming to ISI 651- 12" dia (300 mm)	1 RM	1319
36	MAT-01696	BMW-A.36	Supply of SWG SP-3 Pipe conforming to ISI 651- 14" dia (350 mm)	1 RM	1675
37	MAT-01697	BMW-A.37	Supply of SWG SP-2 Pipe conforming to ISI 651- 16" dia (400 mm)	1 RM	1928
38	MAT-01698	BMW-A.38	Supply of SWG SP-3 Pipe conforming to ISI 651- 18" dia (450 mm)	1 RM	2623
39	MAT-01699	BMW-A.39	Supply of SWG Bends conforming to IS standards -100 mm dia	Each	77
40	MAT-01700	BMW-A.40	Supply of SWG Bends conforming to IS standards -150 mm dia	Each	142
41	MAT-01701	BMW-A.41	Supply of SWG Bends conforming to IS standards -200 mm dia	Each	268
42	MAT-01702	BMW-A.42	Supply of SWG Bends conforming to IS standards -250 mm dia	Each	544
43	MAT-01703	BMW-A.43	Supply of SWG Bends conforming to IS standards -300 mm dia	Each	691
44	MAT-01704	BMW-A.44	Supply of SWG Bends conforming to IS standards -350 mm dia	Each	863
45	MAT-01705	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	148
46	MAT-01706	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	218
47	MAT-01707	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	238
48	MAT-01708	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	339
49	MAT-01709	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	396
50	MAT-01710	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	455
51	MAT-01711	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	534
52	MAT-01712	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	705
53	MAT-01713	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	873
54	MAT-01714	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	1045
55	MAT-01715	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	762
56	MAT-01716	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	976
57	MAT-01717	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	1189

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
58	MAT-01718	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	1404
59	MAT-01719	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	1618
60	MAT-01720	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	951
61	MAT-01721	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	1219
62	MAT-01722	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	1487
63	MAT-01723	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	1752
64	MAT-01724	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	2021
65	MAT-01725	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	2287
66	MAT-01726	BMW-A.66	Supply of SWG Plugs conforming to IS standards for 100 mm dia	Each	28
67	MAT-01727	BMW-A.67	Supply of SWG Plugs conforming to IS standards for 150 mm dia	Each	53
68	MAT-01728	BMW-A.68	Supply of SWG Plugs conforming to IS standards for 200 mm dia	Each	102
69	MAT-01729	BMW-A.69	Supply of SWG Plugs conforming to IS standards for 250 mm dia	Each	176
70	MAT-01730	BMW-A.70	Supply of SWG Plugs conforming to IS standards for 300 mm dia	Each	279
71	MAT-01731	BMW-A.71	Supply of SWG Plugs conforming to IS standards for 350 mm dia	Each	350
72	MAT-01732	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 288.6mm (12"x9") C.I Frame and hinged cover	Each	485
73	MAT-01733	BMW-A.73	Supply of SWG Gully Traps (Round & Square) conforming to IS standards 150 x 100 mm	Each	220
74	LAB-00152	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	MAT-01734	BMW-A.75	Supply of SWG Saddles conforming to IS standards 150 x 100 mm		156
76	MAT-01735	BMW-A.76	Supply of SWG Saddles conforming to IS standards 200 x 100 mm		268
77	MAT-01736	BMW-A.77	Supply of SWG Saddles conforming to IS standards 250 x 100 mm		434
		B	MAN HOLES & INSPECTION CHAMBERS -AS PER - IS 4111 : Part 1 : 1986		

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
78	MAT-05233	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	5697
79	MAT-05234	BMW-B.02	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 1524 mm (5'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification.	Each	8965
80	MAT-05235	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	5518
81	MAT-05236	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;	Each	8619

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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.		
82	MAT-01737	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	5372
83	MAT-01738	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	3238
84	MAT-01739	BMW-B.07	a) Making drainage connection in the existing inspection including all repairs	Each	107
85	LAB-00157	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	MAT-01740	BMW-C.01	3" dia (76.2 mm) Single Socket	1 RM	678
87	MAT-01741	BMW-C.02	4" dia (101.6mm) Single Socket	1 RM	880
88	MAT-01742	BMW-C.03	6" dia (152.4mm) Single Socket	1 RM	1388
89	MAT-01743	BMW-C.04	3" dia (76.2 mm) Double Socket	1 RM	738
90	MAT-01744	BMW-C.05	4" dia (101.6mm) Double Socket	1 RM	974
91	MAT-01745	BMW-C.06	6" dia (152.4mm) Double Socket	1 RM	1593
92	LAB-00158	BMW-C.07	Labour charges only for fixing of C.I. Single/ Double Socket soil pipes of any dia with cement caulked joints and fixing as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar and including fixing of M.S. clamps if necessary with required nails	1 RM	227
93	MAT-01746	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 for 3" dia (76.2 mm)	Each	262

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
94	MAT-01747	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 for 4" dia (101.6 mm)	Each	329
95	MAT-01748	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 for 6" dia (152.4 mm)	Each	539
96	MAT-01749	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	322
97	MAT-01750	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	396
98	MAT-01751	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	853
99	LAB-00159	BMW-C.14	Labour charges only for fixing CI Plain/ Plug (Door) bends with cement caulked joints and fixing as per site requirements with standard practice	Each	72
100	MAT-01752	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	407
101	MAT-01753	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	628
102	MAT-01754	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	1467
103	MAT-01755	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	344
104	MAT-01756	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	465
105	MAT-01757	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	1096
106	LAB-00160	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	MAT-01758	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	611
108	MAT-01759	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	739

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
109	MAT-01760	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	1707
110	MAT-01761	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	530
111	MAT-01762	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	691
112	MAT-01763	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	1600
113	LAB-00161	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	MAT-01764	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	259
115	MAT-01765	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	360
116	MAT-01766	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	776
117	MAT-01767	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	307
118	MAT-01768	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	406
119	MAT-01769	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	795
120	MAT-01770	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	354
121	MAT-01771	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	456
122	MAT-01772	BMW-C.37	Supplying and Fixing of 150 mm C.I. Offsets 1st quality conforming to IS:1729-1979 with cement caulked joints and fixingfor 152.4 mm (6") C.I. Pipe	Each	923
123	LAB-00162	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	MAT-01773	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	465

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
125	MAT-01774	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 practice for nominal dia 100 mm (4") and grating size 100 mm dia of weight not less than 6 Kgs	Each	568
126	MAT-01775	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 practice for nominal dia 75 mm (3") and grating size 100 mm dia of weight not less than 4.0 Kgs	Each	288
127	LAB-00163	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	50
128	MAT-01776	BMW-C.43	Boxing of Nahany traps in RCC floors	Each	162
129	MAT-01777	BMW-C.44	Boxing of W.C Trap in R.C.C floors	Each	324
130	MAT-01778	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	153
131	MAT-01779	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	192
132	MAT-01780	BMW-C.47	Supplying & fixing CI Collars (double socket) 1st quality ISI marked conforming to IS:1729-1979 with cement caulked joints and fixing as per site requirements with standard practice for 152.4 mm (6") C.I. Pipe	Each	552
		D	VITREOUS CHINAWARE - SANITARY APPLIANCES as per IS:2556 – 1974 (Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
133	MAT-01781	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	934
134	MAT-01782	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	934
135	LAB-00164	BMW-D.03	Labour charges only for fixing Indian pattern W.C with "P" or "S" trap	Each	302
136	MAT-01783	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	1399
137	MAT-01784	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	1467
138	LAB-00165	BMW-D.06	Labour charges only Fixing Orissa pan W.C with "P" or "S" trap	Each	377
139	MAT-01785	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	215

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
140	LAB-00166	BMW-D.08	Labour charges only for fixing porcelain foot rest for squatting I.W.C. (Rectangular pair)	Pair	69
141	MAT-01786	BMW-D.09	Providing Brick masonry seat for Orissa pan/ Indian W.C. using 2nd class bricks as per standard practice	Each	278
142	MAT-01787	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	83
143	MAT-01788	BMW-D.11	Supplying & Fixing low down porcelain flushing tank 10 Lit Capacitywith internal components	Each	2226
144	LAB-00167	BMW-D.12	Labour charges only for fixing low down porcelain flushing tank with internal components	Each	528
145	MAT-01789	BMW-D.13	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 ofwhite glazedwith 'P' trap	Each	1784
146	MAT-01790	BMW-D.14	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 ofwhite glazedwith 'S' trap	Each	1703
147	LAB-00168	BMW-D.15	Labour charges only for fixing European Water Closet with 'P' or 'S' trap as per standard practice	Each	264
148	MAT-01791	BMW-D.16	Supplying and Fixingbest Indian make plastic seat and lid for European water closets with rubber or plastic Buffers as per IS 2548-1996	Each	766
149	LAB-00169	BMW-D.17	Labour charges only for fixing plastic seat and lid for European water closet	Each	76
150	MAT-01792	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 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	Each	8260
151	MAT-01793	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 - I/ Grade - II	Each	12044
152	MAT-01794	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	15326
153	MAT-01795	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-	Each	2355

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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		
154	MAT-01796	BMW-D.22	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Single C.P. Pillar cock	Each	2091
155	MAT-01797	BMW-D.23	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 630 x 450 mm - Double C.P. Pillar cock	Each	2551
156	MAT-01798	BMW-D.24	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Single C.P. Pillar cock	Each	1566
157	MAT-01799	BMW-D.25	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/ Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 550 x 400 mm - Double C.P. Pillar cock	Each	1894
158	MAT-01800	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	1370
159	MAT-01801	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-	Each	1764

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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		
160	LAB-00170	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	319
161	MAT-01802	BMW-D.29	Supplying and Fixing Pedestal for Wash Hand Basin (H.S.W / Parry / Earthenware)	Each	1084
162	LAB-00171	BMW-D.30	Labour charges only for fixing pedestal for wash hand basin	Each	136
163	MAT-01803	BMW-D.31	Supplying & Fixing 31.75 mm C.P bottle trap (Heavy type) Parryware or equivalent	Each	390
164	LAB-00172	BMW-D.32	Labour charges only for fixing bottle trap to the wash hand basin	Each	45
165	MAT-01804	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	810
166	MAT-01805	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-Part6, Sec-6-1974 fixed with screws complete Indian make : 410 x 265 x 305 mm	Each	2385
167	MAT-01806	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-Part6, Sec-6-1974 fixed with screws complete Indian make : 590 x 375 x 390 mm	Each	2647
168	LAB-00173	BMW-D.36	Labour charges only Fixing flat back Bowl/ Half stall urinals with fixing C.P. Spreader and screws complete	Each	127
169	MAT-01807	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 nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 : 600 x 400 x 250	Each	4319
170	MAT-01808	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	4844
171	LAB-00174	BMW-D.39	Labour charges only for fixing Vitreous china porcelain sinks with waste fittings, rubber plug, chain, cantilever brackets etc.	Each	319
172	MAT-01809	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	704
173	LAB-00175	BMW-D.41	b) - do - labour charges only	Each	225

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
		E	TAPS & FAUCETS(Materials shall be procured from the list of approved Brands/ Manufacturers/ Suppliers)		
174	MAT-01810	BMW-E.01	a) S & F 12.7 mm NP stop cock Indian make heavy duty	Each	406
175	LAB-00176	BMW-E.02	b) - do - labour charges only	Each	29
176	MAT-01811	BMW-E.03	a) S & F concealed stop cock 12.7 mm (1/2") Indian Make heavy duty	Each	465
177	LAB-00177	BMW-E.04	b) - do - labour charges only	Each	43
178	MAT-01812	BMW-E.05	a) S & F angle stop cock 12.7 mm dia first quality Indian Make heavy duty	Each	408
179	LAB-00178	BMW-E.06	b) - do - labour charges only	Each	43
180	MAT-01813	BMW-E.07	a) S&F 12.7 mm N.P bib tap Indian make heavy duty	Each	349
181	LAB-00179	BMW-E.08	b) - do - labour charges only	Each	29
182	MAT-01814	BMW-E.09	a) S&F 12.7mm N.P bib tap Indian make heavy duty	Each	223
183	LAB-00180	BMW-E.10	b) - do - labour charges only	Each	29
184	MAT-01815	BMW-E.11	a) S & F 31.75 mm brass plumber Union best Indian first quality	Each	61
185	LAB-00181	BMW-E.12	b) - do - labour charges only	Each	14
186	MAT-01816	BMW-E.13	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	200
187	LAB-00182	BMW-E.14	b) - do - labour charges only	Each	29
188	MAT-01817	BMW-E.15	a) S & F 12.7 mm brass stop cock Indian make heavy duty	Each	177
189	LAB-00183	BMW-E.16	b) - do - labour charges only	Each	29
190	MAT-01818	BMW-E.17	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	200
191	LAB-00184	BMW-E.18	b) - do - labour charges only	Each	29
192	MAT-01819	BMW-E.19	a) S & F 12.7 mm brass bib cock Indian make heavy duty	Each	177
193	LAB-00185	BMW-E.20	b) - do - labour charges only	Each	29
194	MAT-01820	BMW-E.21	S & F CP Long body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	547
195	MAT-01821	BMW-E.22	S & F CP Short body bib cock fancy type deluxe heavy duty 12.7 mm dia Indian make	Each	525

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
196	MAT-01822	BMW-E.23	S & F 12.7mm heavy duty dia high neck pillar cock 1st quality Indian make	Each	994
197	MAT-01823	BMW-E.24	a)S & F 12.7 mm heavy duty NP Swan Neck Pillar cock	Each	994
198	LAB-00186	BMW-E.25	b) - do - labour charges only	Each	41
199	MAT-01824	BMW-E.26	a)S & F 12.7 mm heavy duty NP Sink cock	Each	992
200	LAB-00187	BMW-E.27	b) - do - labour charges only	Each	35
201	MAT-01825	BMW-E.28	S&F 12.7 mm dia NP pillar cock heavy duty 1st quality Indian make	Each	522
202	MAT-01826	BMW-E.29	S&F 12.7 mm dia NP push cock 1st quality	Each	234
203	MAT-01827	BMW-E.30	S&F 12.7 mm dia NP lift cock 1st quality	Each	205
204	MAT-01828	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	205
205	LAB-00188	BMW-E.32	b) - do - labour charges only	Each	29
206	MAT-01829	BMW-E.33	a) S & F 31.75 mm PVC bottle trap	Each	125
207	LAB-00189	BMW-E.34	b) - do - labour charges only	Each	29
208	MAT-01830	BMW-E.35	a)S& F 38.1 mm brass plumber union	Each	61
209	LAB-00190	BMW-E.36	b) - do - labour charges only	Each	14
210	MAT-01831	BMW-E.37	a)S & F 19.05 mm heavy duty NP stop cock Indian make with ISI mark	Each	522
211	LAB-00191	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	MAT-01832	BMW-F.01	S& F Glunion 12.7 mm 1st Quality	Each	38
213	MAT-01833	BMW-F.02	S& F Glunion 19.05 mm 1st Quality	Each	46
214	MAT-01834	BMW-F.03	S& F Glunion 25.4 mm 1st Quality	Each	70
215	MAT-01835	BMW-F.04	S& F Glunion 31.75 mm 1st Quality	Each	86
216	MAT-01836	BMW-F.05	S& F Glunion 38.1 mm 1st Quality	Each	103
217	MAT-01837	BMW-F.06	S& F Glunion 50.8 mm 1st Quality	Each	128
218	MAT-01838	BMW-F.07	S& F GI connector 25.4 mm dia	Each	76
219	MAT-01839	BMW-F.08	S& F 12.7 mm GI 'T' A class 1st quality	Each	47
220	MAT-01840	BMW-F.09	S& F31.75mm dia GI bend 1st quality	Each	70
221	MAT-01841	BMW-F.10	S & F 31.75 mm dia GI 'T' 1st Quality	Each	69
222	MAT-01842	BMW-F.11	a) S & F 25.4 mm copper ball cock ith PVC ball Indian make ISI mark	Each	404
223	LAB-00192	BMW-F.12	b) - do - labour charges only	Each	44
224	MAT-01843	BMW-F.13	a) S & F 19.05 mm copper ball cock ith PVCball Indian make ISI mark	Each	331
225	LAB-00193	BMW-F.14	b) - do - labour charges only	Each	41

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
226	MAT-01844	BMW-F.15	a)S & F 12.7 mm copper ball cock ith PVC ball Indian make ISI mark	Each	218
227	LAB-00194	BMW-F.16	b) - do - labour charges only	Each	44
228	MAT-01845	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	1051
229	LAB-00195	BMW-F.18	b) - do - labour charges only	Each	44
230	MAT-01846	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	733
231	LAB-00196	BMW-F.20	b) - do - labour charges only	Each	44
232	MAT-01847	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	545
233	LAB-00197	BMW-F.22	b) - do - labour charges only	Each	44
234	MAT-01848	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	1594
235	LAB-00198	BMW-F.24	b) - do - labour charges only	Each	39
236	MAT-01849	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	2155
237	LAB-00199	BMW-F.26	b) - do - labour charges only	Each	67
238	MAT-01850	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	3155
239	LAB-00200	BMW-F.28	b) - do - labour charges only	Each	90
240	MAT-01851	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	4868
241	LAB-00201	BMW-F.30	b) - do - labour charges only	Each	112
242	MAT-01852	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	7211
243	LAB-00202	BMW-F.32	b) - do - labour charges only	Each	133
244	MAT-01853	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	406
245	LAB-00203	BMW-F.34	b) - do - labour charges only	Each	56
246	MAT-01854	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	919
247	LAB-00204	BMW-F.36	b) - do - labour charges only	Each	67
248	MAT-01855	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	1866
249	LAB-00205	BMW-F.38	b) - do - labour charges only	Each	112
250	MAT-01856	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	2548
251	LAB-00206	BMW-F.40	b) - do - labour charges only	Each	112
252	MAT-01857	BMW-F.41	a) Supplying & fixing Gunmetal (GM) Horizontal Check (Non	Each	589

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			return) Valve as per IS-778 I-class heavy duty - 20 mm NB Size		
253	LAB-00207	BMW-F.42	b) - do - labour charges only	Each	54
254	MAT-01858	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	383
255	LAB-00208	BMW-F.44	b) - do - labour charges only	Each	54
256	MAT-01859	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	496
257	LAB-00209	BMW-F.46	b) - do - labour charges only	Each	54
258	MAT-01860	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	745
259	LAB-00210	BMW-F.48	b) - do - labour charges only	Each	54
260	MAT-01861	BMW-F.49	a) Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty - 32 mm NB Size	Each	1024
261	LAB-00211	BMW-F.50	b) - do - labour charges only	Each	54
262	MAT-01862	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	1236
263	LAB-00212	BMW-F.52	b) - do - labour charges only	Each	54
264	MAT-01863	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	1955
265	LAB-00213	BMW-F.54	b) - do - labour charges only	Each	54
266	MAT-01864	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	411
267	LAB-00214	BMW-F.56	b) - do - labour charges only	Each	54
268	MAT-01865	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	534
269	LAB-00215	BMW-F.58	b) - do - labour charges only	Each	54
270	MAT-01866	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	780
271	LAB-00216	BMW-F.60	b) - do - labour charges only	Each	54
272	MAT-01867	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	1409
273	LAB-00217	BMW-F.62	b) - do - labour charges only	Each	54
274	MAT-01868	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	2111

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
275	LAB-00218	BMW-F.64	b) - do - labour charges only	Each	54
276	MAT-01869	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	3674
277	LAB-00219	BMW-F.66	b) - do - labour charges only	Each	54
278	MAT-05237	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	162
279	LAB-00221	BMW-F.68	b) - do - labour charges only	1 RM	41
280	MAT-05238	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	185
281	LAB-00223	BMW-F.70	b) - do - labour charges only	1 RM	41
282	MAT-05239	BMW-F.71	a) S& F 25 mm Nominal Bore GI pipe Light Grade properties & weight as per IS 1239ISI mark with GI fittings including the cost of pipe & its fittings & labour charges complete	1 RM	241
283	LAB-00225	BMW-F.72	b) - do - labour charges only	1 RM	41
284	MAT-05240	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	335
285	LAB-00227	BMW-F.74	b) - do - labour charges only	1 RM	41
286	MAT-05241	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	376
287	LAB-00229	BMW-F.76	b) - do - labour charges only	1 RM	44
288	MAT-05242	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	412
289	LAB-00231	BMW-F.78	b) - do - labour charges only	1 RM	67
290	MAT-05243	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	179
291	LAB-00233	BMW-F.80	b) - do - labour charges only	1 RM	41
292	MAT-05244	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	198
293	LAB-00235	BMW-F.82	b) - do - labour charges only	1 RM	41
294	MAT-05245	BMW-F.83	a) S& F 25 mm Nominal Bore GI pipe Medium Grade properties & weight as per IS 1239ISI mark with GI fittings	1 RM	258

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			including the cost of pipe & its fittings & labour charges complete		
295	LAB-00237	BMW-F.84	b) - do - labour charges only	1 RM	41
296	MAT-05246	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	359
297	LAB-00239	BMW-F.86	b) - do - labour charges only	1 RM	41
298	MAT-05247	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	401
299	LAB-00241	BMW-F.88	b) - do - labour charges only	1 RM	44
300	MAT-05248	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	436
301	LAB-00243	BMW-F.90	b) - do - labour charges only	1 RM	67
302	MAT-01870	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	755
303	MAT-01871	BMW-F.92	a)S & F 12.7 mm holder bat clamps	Each	12
304	LAB-00244	BMW-F.93	b) - do - labour charges only	Each	8
305	MAT-01872	BMW-F.94	a)S & F 19.05 mm holder bat clamps	Each	19
306	LAB-00245	BMW-F.95	b) - do - labour charges only	Each	8
307	MAT-01873	BMW-F.96	a)S & F 25.4 mm holder bat clamps	Each	25
308	LAB-00246	BMW-F.97	b) - do - labour charges only	Each	8
309	MAT-01874	BMW-F.98	a)S & F 38.1 mm holder bat clamps	Each	28
310	LAB-00247	BMW-F.99	b) - do - labour charges only	Each	9
311	MAT-01875	BMW-F.100	a) S& F12.7x 152.0 mm NP shower rose heavy	Each	161
312	LAB-00248	BMW-F.101	b) - do - labour charges only	Each	20
313	MAT-01876	BMW-F.102	a) S& F12.7x 137.0 mm NP shower rose heavy	Each	155
314	LAB-00249	BMW-F.103	b) - do - labour charges only	Each	22
315	MAT-01877	BMW-F.104	a) S& F12.7x 101.6 mm NP shower rose heavy	Each	147
316	LAB-00250	BMW-F.105	b) - do - labour charges only	Each	22
317	MAT-01878	BMW-	a) S & F 12.7 x 88.9 CP fancy shower	Each	260

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
		F.106			
318	LAB-00251	BMW-F.107	b) - do - labour charges only	Each	22
319	MAT-01879	BMW-F.108	a) Supplying & fixing 12.7 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	43
320	LAB-00252	BMW-F.109	b) - do - labour charges only	Each	22
321	MAT-01880	BMW-F.110	a) Supplying & fixing 19.05 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	61
322	LAB-00253	BMW-F.111	b) - do - labour charges only	Each	21
323	MAT-01881	BMW-F.112	a) Supplying & fixing 25.4 mm GI drain pipe with plug for tanks (Mud valve) including making a hole	Each	72
324	LAB-00254	BMW-F.113	b) - do - labour charges only	Each	24
325	MAT-01882	BMW-F.114	a) Taking branch water connection from the existing 25.4 mm GIpipeline including cutting threading, etc, complete with fitting	Each	138
326	LAB-00255	BMW-F.115	b) - do - labour charges only	Each	41
327	MAT-01883	BMW-F.116	a) Taking branch water connection from the existing 19.05 mm GIpipeline including cutting threading, etc, complete with fitting,	Each	80
328	LAB-00256	BMW-F.117	b) - do - labour charges only	Each	36
329	MAT-01884	BMW-F.118	a) Taking branch water connection from the existing 12.7 mm GIpipeline including cutting threading, etc, complete with fitting,	Each	61
330	LAB-00257	BMW-F.119	b) - do - labour charges only	Each	31
331	MAT-01885	BMW-F.120	Supplying & fixing leather washers for 12.7 mm bib tap and stop cock	Each	1
332	MAT-01886	BMW-F.121	Supplying & fixing leather washers for 19.05 mm bib tap and stop cock	Each	3
333	MAT-01887	BMW-F.122	Supplying & Fixing 12.7 mm fibre washers	Each	3
334	MAT-01888	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	MAT-01889	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	5
336	LAB-00258	BMW-G.02	b) - do - labour charges only	1 Lit	1

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
337	MAT-01890	BMW-G.03	Supply of Plastic storage tank lid with hinges	Each	64
338	MAT-01891	BMW-G.04	Supply & Fixing 76.2 mm dia PVC elbow 1st quality	Each	41
339	MAT-01892	BMW-G.05	Supply & fixing 31.75mm dia PVC flexible waste pipe of 914.4 mm length of 1st quality	Each	22
340	MAT-01893	BMW-G.06	Supply & Fixing 38.1 mm dia PVC solid waste pipe outlet	Each	77
341	MAT-01894	BMW-G.07	Supply & fixing Fancy PVC shelf including all fittings	Each	183
342	MAT-01895	BMW-G.08	Supply & fixing of PVC low level systemwith internal components & short bend:10 Litres capacity Single Flush	Each	1254
343	MAT-01896	BMW-G.09	Supply & fixing of PVC low level systemwith internal components & short bend:10 litres capacity Dual Flush	Each	1472
344	MAT-01897	BMW-G.10	Supply & fixing of PVC low level systemwith internal components & short bend:8 Litres capacity single Flush	Each	709
345	MAT-01898	BMW-G.11	75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	216
346	MAT-01899	BMW-G.12	90 mm dia 3 M single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	343
347	MAT-01900	BMW-G.13	110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	410
348	MAT-01901	BMW-G.14	75 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	244
349	MAT-01902	BMW-G.15	90 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	389
350	MAT-01903	BMW-G.16	110 mm dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	476
351	MAT-01904	BMW-G.17	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	152
352	MAT-01905	BMW-G.18	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	234
353	MAT-01906	BMW-G.19	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	291
354	MAT-01907	BMW-G.20	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	162
355	MAT-01908	BMW-G.21	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	249
356	MAT-01909	BMW-G.22	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	301
357	MAT-01910	BMW-G.23	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	112
358	MAT-01911	BMW-G.24	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	171
359	MAT-01912	BMW-G.25	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	206
360	MAT-01913	BMW-G.26	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	94
361	MAT-01914	BMW-G.27	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	138
362	MAT-01915	BMW-G.28	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	178
363	MAT-01916	BMW-G.29	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	57

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
364	MAT-01917	BMW-G.30	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	95
365	MAT-01918	BMW-G.31	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	119
366	MAT-01919	BMW-G.32	160 MM dia 3 M Double Socket PVC/SWR pipe - 4 Kg/sq.cm	Each	976
367	MAT-01920	BMW-G.33	75 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	366
368	MAT-01921	BMW-G.34	90 mm dia 3 M single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	589
369	MAT-01922	BMW-G.35	110 mm dia 3 M Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	701
370	MAT-01923	BMW-G.36	75 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	400
371	MAT-01924	BMW-G.37	90 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	635
372	MAT-01925	BMW-G.38	110 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	774
373	MAT-01926	BMW-G.39	75 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	240
374	MAT-01927	BMW-G.40	90 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	373
375	MAT-01928	BMW-G.41	110 mm dia 1828.8 mm (6'-0") Single Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	444
376	MAT-01929	BMW-G.42	75 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	257
377	MAT-01930	BMW-G.43	90 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	389
378	MAT-01931	BMW-G.44	110 mm dia 1828.8 mm (6'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	480
379	MAT-01932	BMW-G.45	75 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	174
380	MAT-01933	BMW-G.46	90 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	269
381	MAT-01934	BMW-G.47	110 mm dia 1219. mm (4'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	328
382	MAT-01935	BMW-G.48	75 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	150
383	MAT-01936	BMW-G.49	90 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	220
384	MAT-01937	BMW-G.50	110 mm dia 914.4mm (3'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	266
385	MAT-01938	BMW-G.51	75 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	97
386	MAT-01939	BMW-G.52	90 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	151
387	MAT-01940	BMW-G.53	110 mm dia 609.6mm (2'-0") Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	192
388	MAT-01941	BMW-G.54	160 mm dia 3 M Double Socket PVC/SWR pipe - 6 Kg/sq.cm	Each	1596

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
389	MAT-01942	BMW-G.55	75 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	42
390	MAT-01943	BMW-G.56	90 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	59
391	MAT-01944	BMW-G.57	110 mm dia - Plain Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	70
392	MAT-01945	BMW-G.58	75 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	57
393	MAT-01946	BMW-G.59	90 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	80
394	MAT-01947	BMW-G.60	110 mm dia - Door Bend 87.5 Degree - UPVC/SWR Pipe fittings	Each	91
395	MAT-01948	BMW-G.61	75 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	33
396	MAT-01949	BMW-G.62	90 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	46
397	MAT-01950	BMW-G.63	110 mm dia - 45 Degree Bend - UPVC/SWR Pipe fittings	Each	59
398	MAT-01951	BMW-G.64	75 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	57
399	MAT-01952	BMW-G.65	90 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	83
400	MAT-01953	BMW-G.66	110 mm dia - Cleaning Pipe - UPVC/SWR Pipe fittings	Each	100
401	MAT-01954	BMW-G.67	75 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	50
402	MAT-01955	BMW-G.68	90 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	75
403	MAT-01956	BMW-G.69	110 mm dia - Single Tee - UPVC/SWR Pipe fittings	Each	91
404	MAT-01957	BMW-G.70	75 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	62
405	MAT-01958	BMW-G.71	90 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	91
406	MAT-01959	BMW-G.72	110 mm dia - Single Tee with Door - UPVC/SWR Pipe fittings	Each	110
407	MAT-01960	BMW-G.73	75 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	96
408	MAT-01961	BMW-G.74	90 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	155
409	MAT-01962	BMW-G.75	110 mm dia - Double Tee - UPVC/SWR Pipe fittings	Each	183
410	MAT-01963	BMW-G.76	75 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	128
411	MAT-01964	BMW-G.77	90 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	242
412	MAT-01965	BMW-G.78	110 mm dia - Double Tee with Door - UPVC/SWR Pipe fittings	Each	237
413	MAT-01966	BMW-G.79	75 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	63
414	MAT-01967	BMW-G.80	90 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	100
415	MAT-01968	BMW-G.81	110 mm dia - Single 'Y' - UPVC/SWR Pipe fittings	Each	115
416	MAT-01969	BMW-G.82	75 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	80
417	MAT-01970	BMW-G.83	90 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	126
418	MAT-01971	BMW-G.84	110 mm dia - Single 'Y' with Door - UPVC/SWR Pipe fittings	Each	145
419	MAT-01972	BMW-G.85	75 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	86

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
420	MAT-01973	BMW-G.86	90 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	134
421	MAT-01974	BMW-G.87	110 mm dia - Double 'Y' - UPVC/SWR Pipe fittings	Each	152
422	MAT-01975	BMW-G.88	75 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	112
423	MAT-01976	BMW-G.89	90 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	174
424	MAT-01977	BMW-G.90	110 mm dia - Double 'Y' with Door - UPVC/SWR Pipe fittings	Each	196
425	MAT-01978	BMW-G.91	75 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	30
426	MAT-01979	BMW-G.92	90 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	43
427	MAT-01980	BMW-G.93	110 mm dia - Coupler - UPVC/SWR Pipe fittings	Each	48
428	MAT-01981	BMW-G.94	90 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	50
429	MAT-01982	BMW-G.95	110 x 75 mm dia - Reducer - UPVC/SWR Pipe fittings	Each	48
430	MAT-01983	BMW-G.96	90 x 110mm dia - Reducer - UPVC/SWR Pipe fittings	Each	67
431	MAT-01984	BMW-G.97	63 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	8
432	MAT-01985	BMW-G.98	75 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	12
433	MAT-01986	BMW-G.99	90 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	14
434	MAT-01987	BMW-G.100	110 mm dia - Vent Cowl - UPVC/SWR Pipe fittings	Each	16
435	MAT-01988	BMW-G.101	40 mm dia - Pipe Clip - UPVC/SWR Pipe fittings - Pipe Clip - UPVC/SWR Pipe fittings	Each	9
436	MAT-01989	BMW-G.102	50 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	12
437	MAT-01990	BMW-G.103	63 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	12
438	MAT-01991	BMW-G.104	75 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	13
439	MAT-01992	BMW-G.105	90 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	14
440	MAT-01993	BMW-G.106	110 mm - Pipe Clip - UPVC/SWR Pipe fittings	Each	15
441	MAT-01994	BMW-G.107	160 mm dia - Pipe Clip - UPVC/SWR Pipe fittings	Each	30
442	MAT-01995	BMW-G.108	P' Trap (Small without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	159
443	MAT-01996	BMW-G.109	P' Trap (Small with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	176
444	MAT-01997	BMW-G.110	P' Trap (Big with Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	201
445	MAT-01998	BMW-G.111	P' Trap (Big without Air vent) 110 mm - UPVC/SWR Pipe fittings	Each	185
446	MAT-01999	BMW-G.112	Floor Trap (Bell Mouth) 110 mm - UPVC/SWR Pipe fittings	Each	192
447	MAT-02000	BMW-G.113	Bell Mouth Trap 7 " (177.8 mm) - UPVC/SWR Pipe fittings	Each	279

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
448	MAT-02001	BMW-G.114	4" (101.6 mm) Nahany Trap (Without Jali with inlet)UPVC/SWR Pipe fittings	Each	83
449	MAT-02002	BMW-G.115	3" (76.2 mm) Nahany Trap (without Jali without inlet)UPVC/SWR Pipe fittings	Each	74
450	MAT-02003	BMW-G.116	4" (101.6 mm) Nahany Trap (without inlet with out Jali)UPVC/SWR Pipe fittings	Each	83
451	MAT-02004	BMW-G.117	Mini Trap - UPVC/SWR Pipe fittings	Each	45
452	MAT-02005	BMW-G.118	3" (76.2 mm) Nahany Trap with Jali - UPVC/SWR Pipe fittings	Each	86
453	MAT-02006	BMW-G.119	4" (101.6 mm) multi floor trap with Jali- UPVC/SWR Pipe fittings	Each	122
454	MAT-02007	BMW-G.120	4" (101.6) multi floor trap with out Jalli- UPVC/SWR Pipe fittings	Each	95
455	MAT-02008	BMW-G.121	Round Jali - UPVC/SWR Pipe fittings	Each	20
456	MAT-02009	BMW-G.122	Square tile & Jalli - UPVC/SWR Pipe fittings	Each	33
457	MAT-02010	BMW-G.123	Pipe connector(with LIP ring) - UPVC/SWR Pipe fittings	Each	122
458	MAT-02011	BMW-G.124	Pipe connector(with out LIP ring) - UPVC/SWR Pipe fittings	Each	99
459	MAT-02012	BMW-G.125	4" (101.6 mm) Floor Trap - UPVC/SWR Pipe fittings	Each	117
460	MAT-02013	BMW-G.126	5" (127.mm) floor Trap - UPVC/SWR Pipe fittings	Each	124
461	MAT-02014	BMW-G.127	75 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	31
462	MAT-02015	BMW-G.128	90 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	54
463	MAT-02016	BMW-G.129	110 mm dia - Door cap - UPVC/SWR Pipe fittings	Each	45
464	MAT-02017	BMW-G.130	75 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	30
465	MAT-02018	BMW-G.131	90 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	52
466	MAT-02019	BMW-G.132	110 mm dia - Socket plug - UPVC/SWR Pipe fittings	Each	54
467	MAT-02020	BMW-G.133	75 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	7
468	MAT-02021	BMW-G.134	90 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	8
469	MAT-02022	BMW-G.135	110 mm dia - Rubber ring for Socket - UPVC/SWR Pipe fittings	Each	9
470	MAT-02023	BMW-G.136	75 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	8

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
471	MAT-02024	BMW-G.137	90 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	9
472	MAT-02025	BMW-G.138	110 mm dia - Door Socket - UPVC/SWR Pipe fittings	Each	12
473	MAT-02026	BMW-G.139	LIP ring 110 mm - UPVC/SWR Pipe fittings	Each	58
474	MAT-02027	BMW-G.140	Rubber Lubricant - 100 Grams	Each	22
475	MAT-02028	BMW-G.141	Rubber Lubricant- 250Grams	Each	43
476	MAT-02029	BMW-G.142	Rubber Lubricant - 500 Grams	Each	78
477	MAT-02030	BMW-G.143	Rubber Lubricant - 1000 Grams	Each	185
478	MAT-02031	BMW-G.144	P' Trap with lip UPVC/SWR Pipe fittings	Each	252
479	MAT-02032	BMW-G.145	50 ml - Solvent Cement	Each	13
480	MAT-02033	BMW-G.146	100 ml - Solvent Cement	Each	21
481	MAT-02034	BMW-G.147	250 ml - Solvent Cement	Each	50
482	MAT-02035	BMW-G.148	500 ml - Solvent Cement	Each	98
483	MAT-02036	BMW-G.149	1000 ml - Solvent Cement	Each	192
484	MAT-02037	BMW-G.150	110mm x 90 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	76
485	MAT-02038	BMW-G.151	160 mm x 110 mm - Internal Reducer - UPVC/SWR Pipe fittings	Each	190
486	LAB-00259	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	MAT-02039	BMW-H.01	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1270
488	MAT-02040	BMW-H.02	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	1691
489	MAT-02041	BMW-H.03	150 mm dia CI (spun) soils Waste & Ventilating pipe (3 M)	Each	3099
490	MAT-02042	BMW-H.04	75 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1410
491	MAT-02043	BMW-H.05	100 mm dia CI (spun) soils Waste & Ventilating pipe (3 M) Double socket	Each	1902
492	MAT-02044	BMW-H.06	75 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1142

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
493	MAT-02045	BMW-H.07	100 mm dia 9'-0" (2743.2 mm) CI (Spun) pipes	Each	1526
494	MAT-02046	BMW-H.08	75 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1022
495	MAT-02047	BMW-H.09	100 mm dia 8'-0" (2438.4 mm) CI (Spun) pipes	Each	1358
496	MAT-02048	BMW-H.10	75 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	831
497	MAT-02049	BMW-H.11	100 mm dia 6'-0" (1828.8 mm) CI (Spun) pipes	Each	1084
498	MAT-02050	BMW-H.12	75 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	874
499	MAT-02051	BMW-H.13	100 mm dia 6'-0" (1828.8 mm) Double Socket CI (Spun) pipes	Each	1084
500	MAT-02052	BMW-H.14	75 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	303
501	MAT-02053	BMW-H.15	100 mm dia Cut pipes (pieces) 1 foot (304.8 mm) CI (Spun) fittings	Each	348
502	MAT-02054	BMW-H.16	75 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	434
503	MAT-02055	BMW-H.17	100 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	499
504	MAT-02056	BMW-H.18	150 mm dia Cut pipes (pieces) 1'.6" (457.2 mm) CI (Spun) fittings	Each	952
505	MAT-02057	BMW-H.19	75 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	599
506	MAT-02058	BMW-H.20	100 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	661
507	MAT-02059	BMW-H.21	150 mm dia Cut pipes (pieces) 2 feet (609.6 mm) CI (Spun) fittings	Each	1193
508	MAT-02060	BMW-H.22	75 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	918
509	MAT-02061	BMW-H.23	100 mm dia Cut pipes (pieces) 3 feet (914.4 mm) CI (Spun) fittings	Each	1239
510	MAT-02062	BMW-H.24	75 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1010
511	MAT-02063	BMW-H.25	100 mm dia Cut pipes (pieces) 4 feet (1219.2 mm) CI (Spun) fittings	Each	1511
512	MAT-02064	BMW-H.26	75 mm dia Plain Bend - CI (Spun) fittings	Each	312
513	MAT-02065	BMW-H.27	100 mm dia Plain Bend - CI (Spun) fittings	Each	367
514	MAT-02066	BMW-H.28	150 mm dia Plain Bend - CI (Spun) fittings	Each	874
515	MAT-02067	BMW-H.29	75 mm dia Door Bend - CI (Spun) fittings	Each	323
516	MAT-02068	BMW-H.30	100 mm dia Door Bend - CI (Spun) fittings	Each	418
517	MAT-02069	BMW-H.31	150 mm dia Door Bend - CI (Spun) fittings	Each	957
518	MAT-02070	BMW-H.32	75 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	312
519	MAT-02071	BMW-H.33	100 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	367
520	MAT-02072	BMW-H.34	150 mm dia Plain Bend 45 Degrees - CI (Spun) fittings	Each	874
521	MAT-02073	BMW-H.35	75 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	323

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
522	MAT-02074	BMW-H.36	100 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	418
523	MAT-02075	BMW-H.37	150 mm dia Door Bend 45 Degrees - CI (Spun) fittings	Each	957
524	MAT-02076	BMW-H.38	Horn Bend Plain 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	635
525	MAT-02077	BMW-H.39	Horn Bend door 101.6 x 50.8 mm (4" x 2") 100 mm dia - CI (Spun) fittings	Each	741
526	MAT-02078	BMW-H.40	75 mm dia Heel Rest Bend - CI (Spun) fittings	Each	332
527	MAT-02079	BMW-H.41	100 mm dia Heel Rest Bend - CI (Spun) fittings	Each	424
528	MAT-02080	BMW-H.42	150 mm dia Heel Rest Bend - CI (Spun) fittings	Each	902
529	MAT-02081	BMW-H.43	75 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	418
530	MAT-02082	BMW-H.44	100 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	564
531	MAT-02083	BMW-H.45	150 mm dia Single Branch Plain "T" - CI (Spun) fittings	Each	1164
532	MAT-02084	BMW-H.46	75 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	493
533	MAT-02085	BMW-H.47	100 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	654
534	MAT-02086	BMW-H.48	150 mm dia Single Branch Door "T" - CI (Spun) fittings	Each	1229
535	MAT-02087	BMW-H.49	75 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	493
536	MAT-02088	BMW-H.50	100 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	654
537	MAT-02089	BMW-H.51	150 mm dia Single Branch plain "Y" - CI (Spun) fittings	Each	1443
538	MAT-02090	BMW-H.52	75 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	540
539	MAT-02091	BMW-H.53	100 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	722
540	MAT-02092	BMW-H.54	150 mm dia Single Branch Door "Y" - CI (Spun) fittings	Each	1554
541	MAT-02093	BMW-H.55	75 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	571
542	MAT-02094	BMW-H.56	100 mm dia Double Branch Plain "T" - CI (Spun) fittings	Each	769
543	MAT-02095	BMW-H.57	75 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	637
544	MAT-02096	BMW-H.58	100 mm dia Double Branch Door "T" - CI (Spun) fittings	Each	802
545	MAT-02097	BMW-H.59	75 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	637
546	MAT-02098	BMW-H.60	100 mm dia Double Branch Plain "Y" - CI (Spun) fittings	Each	802
547	MAT-02099	BMW-H.61	75 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	671
548	MAT-02100	BMW-H.62	100 mm dia Double Branch Door "Y" - CI (Spun) fittings	Each	870
549	MAT-02101	BMW-H.63	75 mm dia Shoe Bend - CI (Spun) fittings	Each	394
550	MAT-02102	BMW-H.64	100 mm dia Shoe Bend - CI (Spun) fittings	Each	461
551	MAT-02103	BMW-H.65	150 mm dia Shoe Bend - CI (Spun) fittings	Each	935
552	MAT-02104	BMW-H.66	75 mm dia Collar - CI (Spun) fittings	Each	269
553	MAT-02105	BMW-H.67	100 mm dia Collar - CI (Spun) fittings	Each	327
554	MAT-02106	BMW-H.68	150 mm dia Collar - CI (Spun) fittings	Each	671
555	MAT-02107	BMW-H.69	75 mm dia Cowl - CI (Spun) fittings	Each	238
556	MAT-02108	BMW-H.70	100 mm dia Cowl - CI (Spun) fittings	Each	269
557	MAT-02109	BMW-H.71	150 mm dia Cowl - CI (Spun) fittings	Each	604

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
558	MAT-02110	BMW-H.72	75 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	345
559	MAT-02111	BMW-H.73	100 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	418
560	MAT-02112	BMW-H.74	150 mm dia Offset 3" (76.2 mm) projection - CI (Spun) fittings	Each	844
561	MAT-02113	BMW-H.75	75 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	377
562	MAT-02114	BMW-H.76	100 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	493
563	MAT-02115	BMW-H.77	150 mm dia Offset 6" (152.4mm) projection - CI (Spun) fittings	Each	983
564	MAT-02116	BMW-H.78	75 mm dia Long Door Bend - CI (Spun) fittings	Each	792
565	MAT-02117	BMW-H.79	100 mm dia Long Door Bend - CI (Spun) fittings	Each	852
566	MAT-02118	BMW-H.80	75 mm dia Hand Hole pipe (Inspection pipe)	Each	455
567	MAT-02119	BMW-H.81	100 mm dia Hand Hole pipe (Inspection pipe)	Each	620
568	MAT-02120	BMW-H.82	150 mm dia Hand Hole pipe (Inspection pipe)	Each	825
569	MAT-02121	BMW-H.83	75 mm dia P Traps - CI (Spun) fittings	Each	493
570	MAT-02122	BMW-H.84	100 mm dia P Traps - CI (Spun) fittings	Each	676
571	MAT-02123	BMW-H.85	4" x 3" (101.6 mm x 76.2mm) P. Traps 100 mm dia - CI (Spun) fittings	Each	775
572	MAT-02124	BMW-H.86	4" x 3" (101.6 mm x 76.2mm) Vent Traps 100 mm dia - CI (Spun) fittings	Each	775
573	MAT-02125	BMW-H.87	4" x 3" (101.6 mm x 76.2mm) Reducer 75 mm dia - CI (Spun) fittings	Each	481
574	MAT-02126	BMW-H.88	6" x 4" (152.4 mm x 101.6 mm) Reducer 75 mm dia - CI (Spun) fittings	Each	659
575	MAT-02127	BMW-H.89	3" x 2" (76.2 mm x 50.8 mm) plain T 75 mm dia - CI (Spun) fittings	Each	411
576	MAT-02128	BMW-H.90	3" x 2" (76.2 mm x 50.8 mm) Door T 75 mm dia - CI (Spun) fittings	Each	642
577	MAT-02129	BMW-H.91	3" x 2" (76.2 mm x 50.8 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	642
578	MAT-02130	BMW-H.92	3" x 2" (76.2 mm x 50.8 mm) Door Y 75 mm dia - CI (Spun) fittings	Each	642
579	MAT-02131	BMW-H.93	4" x 3" (101.6 mm x 76.2mm) Plain T 75 mm dia - CI (Spun) fittings	Each	642
580	MAT-02132	BMW-H.94	4" x 3" (101.6 mm x 76.2mm) Door T 75 mm dia - CI (Spun) fittings	Each	680
581	MAT-02133	BMW-H.95	4" x 3" (101.6 mm x 76.2mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	680
582	MAT-02134	BMW-H.96	4" x 3" (101.6 mm x 76.2mm) Door Y 75 mm dia - CI (Spun) fittings	Each	726
583	MAT-02135	BMW-H.97	6" x 4" (152.4 mm x 101.6 mm) Plain T 75 mm dia - CI	Each	950

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			(Spun) fittings		
584	MAT-02136	BMW-H.98	6" x 4" (152.4 mm x101.6 mm)Door T 75 mm dia - CI (Spun) fittings	Each	1029
585	MAT-02137	BMW-H.99	6" x 4" (152.4 mm x101.6 mm) Plain Y 75 mm dia - CI (Spun) fittings	Each	1089
586	MAT-02138	BMW-H.100	6" x 4" (152.4 mm x101.6 mm)DoorY 75 mm dia - CI (Spun) fittings	Each	1331
587	MAT-02139	BMW-H.101	75 mm diaPlain " T" 27 " (685.8 mm) Special Types of Long Fittings	Each	1379
588	MAT-02140	BMW-H.102	100 mm dia - Plain " T" 27 " (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1937
589	MAT-02141	BMW-H.103	75 mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	1540
590	MAT-02142	BMW-H.104	100mm dia Door "T" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2128
591	MAT-02143	BMW-H.105	75 mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	1540
592	MAT-02144	BMW-H.106	100mm diaPlain " Y" 27" (685.8 mm) Special Types of Long CI (Spun) fittings	Each	2128
593	MAT-02145	BMW-H.107	75 mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	1717
594	MAT-02146	BMW-H.108	100mm dia Door " Y" 27" (685.8 mm)Special Types of Long CI (Spun) fittings	Each	2337
		I	MISCELLANEOUS ITEMS		
595	MAT-02147	BMW-I.01	a) Supplying & Fixing solder joints up to 50.8 mm dia	Each	56
596	LAB-00260	BMW-I.02	b) - do - labour charges only	Each	19
597	MAT-02148	BMW-I.03	a) Supplying & Fixing solution joints up to 50.8 dia 1st quality.	Each	11
598	LAB-00261	BMW-I.04	b) - do - labour charges only	Each	2
599	MAT-02149	BMW-I.05	Chiselling the stone masonry wall for fixing of wooden blocks including finishing as directed by the department	Each	30
600	MAT-02150	BMW-I.06	Chiselling the stone masonry wall and repairs as directed by the department.	1 Rm	143
601	MAT-02151	BMW-I.07	Chiselling the brick masonry wall and repairs as directed by the department.	1 Rm	30
602	MAT-02152	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	1896
603	LAB-00262	BMW-I.09	b) - do - labour charges only	Each	401
604	MAT-02153	BMW-I.10	a) S & F NP shower spray fancy with NP Flexible pipe	Each	508
605	LAB-00263	BMW-I.11	b) - do - labour charges only	Each	133
606	MAT-02154	BMW-I.12	a) S & F NP cover for Nahany trap	Each	29
607	LAB-00264	BMW-I.13	b) - do - labour charges only	Each	19
608	MAT-02155	BMW-I.14	a) Painting the flushing tank with white enamel paint	Each	105

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
609	LAB-00265	BMW-I.15	b) - do - labour charges only	Each	64
610	MAT-02156	BMW-I.16	S & F internal fittings for flush tank Parryplast wonder flush or equivalent	Each	694
611	MAT-02157	BMW-I.17	Repairing and over hauling flushing tank	Each	80
612	MAT-02158	BMW-I.18	a) Supplying & Fixing NP chain rubber and plug for basin	Each	37
613	LAB-00266	BMW-I.19	b) - do - labour charges only	Each	7
614	MAT-02159	BMW-I.20	a) S & F 25.4 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	146
615	LAB-00267	BMW-I.21	b) - do - labour charges only	Each	44
616	MAT-02160	BMW-I.22	a) S & F 19.04 mm dia& 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Each	130
617	LAB-00268	BMW-I.23	b) - do - labour charges only	Each	67
618	MAT-02161	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	186
619	LAB-00269	BMW-I.25	b) - do - labour charges only	Each	56
620	MAT-02162	BMW-I.26	a) S & F 609.6 mm long 127 mm wide plate glass shelf only	Each	60
621	LAB-00270	BMW-I.27	b) - do - labour charges only	Each	11
622	MAT-02163	BMW-I.28	a) S & F NP soap dish heavy type with NP SCREWS	Each	208
623	LAB-00271	BMW-I.29	b) - do - labour charges only	Each	12
624	MAT-02164	BMW-I.30	a) S & F NP holder brackets with screws	Each	43
625	LAB-00272	BMW-I.31	b) - do - labour charges only	Each	14
626	MAT-02165	BMW-I.32	a) S & F liquid soap container NP metallic with NP brackets and screws.	Each	209
627	LAB-00273	BMW-I.33	b) - do - labour charges only	Each	22
628	MAT-02166	BMW-I.34	a) S & F 31.75 mm C.P TRAPS	Each	273
629	LAB-00274	BMW-I.35	b) - do - labour charges only	Each	44
630	MAT-02167	BMW-I.36	a) Supplying & fixing 88.9 mm A.C cowls	Each	62
631	LAB-00275	BMW-I.37	b) - do - labour charges only	Each	14
632	MAT-02168	BMW-I.38	a)Supplying & fixing A.CCowl 63.5 mm dia	Each	42
633	LAB-00276	BMW-I.39	b) - do - labour charges only	Each	11
634	MAT-02169	BMW-I.40	Removing and refixing W.C s	Each	193
635	MAT-02170	BMW-I.41	Removing and refixing wash hand basins of any size with fittings complete	Each	186
636	MAT-02171	BMW-I.42	a)S & F 76.2 x 101.6 mm teak wood block complete	Each	23
637	LAB-00277	BMW-I.43	b) - do - labour charges only	Each	9
638	LAB-00278	BMW-I.44	Cutting holes in C.C; basement & repairs Labour charges only	Each	107
639	LAB-00279	BMW-I.45	Cutting holes in stone masonry& basement and repairs Labour charges only	Each	72
640	LAB-00280	BMW-I.46	Cutting holes in Brick masonry& repairs Labour charges	Each	47

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			only		
641	LAB-00281	BMW-I.47	Cutting holes in RCC slab floor & repairs Labour charges only	Each	72
642	MAT-02172	BMW-I.48	a)Supplying & Fixing 12.7 mm PVC connection with brass union nut C.P coated	Each	86
643	LAB-00282	BMW-I.49	b) - do - labour charges only	Each	17
644	MAT-02173	BMW-I.50	a) S & F 12.7 mm .M.P couplings	Each	31
645	LAB-00283	BMW-I.51	b) - do - labour charges only	Each	11
646	MAT-02174	BMW-I.52	a) S & F 19.05 mm M.P couplings	Each	37
647	LAB-00284	BMW-I.53	b) - do - labour charges only	Each	11
648	MAT-02175	BMW-I.54	a) S& F MP coupling 25.4 mm dia	Each	82
	LAB-00285		b) - do - labour charges only	Each	11
649	MAT-02176	BMW-I.55	a) S & FPVC Rubber adopter for LLC and bend	Each	17
650	LAB-00286	BMW-I.56	b) - do - labour charges only	Each	8
651	MAT-02177	BMW-I.57	a) S& F 31.75 mm Brass union nuts	Each	31
652	LAB-00287	BMW-I.58	b) - do - labour charges only	Each	7
653	MAT-02178	BMW-I.59	a) S& F 38.1 mm Brass union nuts	Each	33
654	LAB-00288	BMW-I.60	b) - do - labour charges only	Each	9
655	MAT-02179	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	417
656	LAB-00289	BMW-I.62	b) - do - labour charges only	Each	100
657	MAT-02180	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	68
658	LAB-00290	BMW-I.64	b) - do - labour charges only	Each	22
659	MAT-02181	BMW-I.65	a) Supplying & fixing 304.8 x 228.6 mm CI frame & cover over gully taps	Each	110
660	LAB-00291	BMW-I.66	b) - do - labour charges only	Each	35
661	MAT-02182	BMW-I.67	a) Supplying & fixing CI Nahany trap grating	Each	19
662	LAB-00292	BMW-I.68	b) - do - labour charges only	Each	11
663	MAT-02183	BMW-I.69	a) Supplying & fixing CI gully trap grating	Each	44
664	LAB-00293	BMW-I.70	b) - do - labour charges only	Each	11
665	MAT-02184	BMW-I.71	a) Supplying & fixing valves for brass ball cocks 25.4 mm dia	Each	17
666	LAB-00294	BMW-I.72	b) - do - labour charges only	Each	9
667	MAT-02185	BMW-I.73	a) Supplying & fixing 12.7 m valve for bib tap or stop cocks	Each	16
668	LAB-00295	BMW-I.74	b) - do - labour charges only	Each	7
669	MAT-02186	BMW-I.75	a) Supplying & fixing 19.05 m valve for bib tap or stop cocks	Each	35
670	LAB-00296	BMW-I.76	b) - do - labour charges only	Each	11

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671	MAT-02187	BMW-I.77	Removing 12.7 mm Glpipe and refixing the same	Mr.	58
672	MAT-02188	BMW-I.78	Removing 19.05 mm Glpipe and refixing the same	Mr.	63
673	MAT-02189	BMW-I.79	Removing 25.4 mm Glpipe and refixing the same	Mr.	95
674	MAT-02190	BMW-I.80	Removing 38.1 mm Glpipe and refixing the same	Rm	120
675	MAT-02191	BMW-I.81	Removing 50.8 mm Glpipe and refixing the same	Rm	141
676	MAT-02192	BMW-I.82	Cleaning the W.C with acid and Vim powder	Each	39
677	MAT-02193	BMW-I.83	Cleaning the Urinal with acid and Vim power	Each	39
678	MAT-02194	BMW-I.84	Cleaning the wash basin with acid and Vim powder	Each	39
679	MAT-02195	BMW-I.85	Cleaning theE.W.C with acid and Vim power	Each	39
680	MAT-02196	BMW-I.86	Supplying & fixing 914.4 x 457.2 mm CI man hole frame and cover (light weight) 30 Kgs	Each	1732
681	MAT-02197	BMW-I.87	Supplying & fixing 602 x 602 mm CI man hole frame and cover (light weight) 30 Kgs	Each	2564
682	LAB-00297	BMW-I.88	b) - do - labour charges only	Each	140
683	MAT-02198	BMW-I.89	a) Supplying & fixing CI steps for septic tank.	Each	57
684	LAB-00298	BMW-I.90	b) - do - labour charges only	Each	11
685	MAT-02199	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	1121
686	LAB-00299	BMW-I.92	b) - do - labour charges only	Each	140
687	MAT-02200	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	2326
688	LAB-00300	BMW-I.94	b) - do - labour charges only	Each	356
689	LAB-00301	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	212
690	MAT-02201	BMW-I.96	a) Cost. 50.8 mm RCC partition wall	1Sqm	238
691	LAB-00302	BMW-I.97	b) - do - labour charges only	1 Sqm	44
692	MAT-02202	BMW-I.98	a)S& F double layer of bamboo matting tarred on both sides.	10 Sqm	547
693	LAB-00303	BMW-I.99	b) - do - labour charges only	10 Sqm	123
694	MAT-02203	BMW-I.100	Removing of 101.6 m or 76.2 mm CI pipe	1 RM	30
695	MAT-02204	BMW-I.101	a) Supplying & fixing 76.2 mm W.I clamps	Each	23
696	LAB-00304	BMW-I.102	b) - do - labour charges only	Each	9
697	MAT-02205	BMW-I.103	a) Supplying & fixing NP coat hook	Each	41
698	LAB-00305	BMW-I.104	b) - do - labour charges only	Each	11
699	MAT-02206	BMW-I.105	a) Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457 .2 mm	Each	452
700	LAB-00306	BMW-I.106	b) - do - labour charges only	Each	116
701	MAT-02207	BMW-I.107	a) Supplying & fixing GI pipe plug of size 12.7 mm dia	Each	9

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
702	LAB-00307	BMW-I.108	b) - do - labour charges only	Each	1
703	MAT-02208	BMW-I.109	a) Supplying & fixing 19.06 mm dia GI plug	Each	12
704	LAB-00308	BMW-I.110	b) - do - labour charges only	Each	1
705	MAT-02209	BMW-I.111	a) Supplying and fixing 38.1 mm dia of GI plug	Each	62
706	LAB-00309	BMW-I.112	b) - do - labour charges only	Each	9
707	MAT-02210	BMW-I.113	a) Supplying & fixing 50.8 mm dia of GI PLUG	Each	95
708	LAB-00310	BMW-I.114	b) - do - labour charges only	Each	11
709	MAT-02211	BMW-I.115	a) Supplying & fixing 76.2 mm dia of GI PLUG	Each	172
710	LAB-00311	BMW-I.116	b) - do - labour charges only	Each	19
711	MAT-02212	BMW-I.117	a) Supplying & fixing C.P flange.	Each	23
712	LAB-00312	BMW-I.118	b) - do - labour charges only	Each	8
713	MAT-02213	BMW-I.119	a) Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories	Each	6471
714	LAB-00313	BMW-I.120	b) - do - labour charges only	Each	506
715	MAT-02214	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	5100
716	LAB-00314	BMW-I.122	b) - do - labour charges only	Each	491
717	MAT-02215	BMW-I.123	a) Supplying & fixing stainless steel sink size 20" x18" x 8 "(508x457.2x203.2mm) 1 mm thick with accessories	Each	4637
718	MAT-02216	BMW-I.124	b) - do - labour charges only	Each	449
719	MAT-02217	BMW-I.125	Supplying & fixing 4 " x 24 " (101.6x609.6mm) white glazed porcelain channel fixed in brick masonry white cement pointing.	Each	470
720	MAT-02218	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	853
721	MAT-02219	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	4672
722	MAT-02220	BMW-I.128	Supply & fixing porcelain P' trap	Each	201
723	MAT-02221	BMW-I.129	Supplying & fixing oval shape basin white (520x410mm)parry or equivalent	Each	2138
724	MAT-02222	BMW-I.130	Supply & fixing RCC cover 22" dia with nominal reinforcement 3 " thick and hooks for lifting	Each	633
725	MAT-02223	BMW-I.131	Supply & fixing cp spl. Grating with frame and cover of 1st quality	Each	54
726	MAT-02224	BMW-I.132	Supply & fixing towel rod (CP) of 24" long and 3/4 " dia	Each	341
727	MAT-02225	BMW-I.133	Supply & fixing of LLC handle set 1stquality	Each	68
728	MAT-02226	BMW-I.134	Mechanical Cleaning of water sumps with pumps & UV disinfecting	1000 Lit	47
729	MAT-02227	BMW-I.135	Supply & fixing 4" dia CP thimble pipe: 150 mm long	Each	356
730	MAT-02228	BMW-I.136	Supply & fixing 4" dia CP thimble pipe:220 mm long	Each	532

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731	MAT-02229	BMW-I.137	Supply & fixing 4" dia CP thimble pipe: 300 mm long	Each	710
732	MAT-02230	BMW-I.138	Supply & fixing CP long bend	Each	301
733	MAT-02231	BMW-I.139	Supply & fixing CP short bend	Each	151
734	MAT-02232	BMW-I.140	Supplying & fixing 15 mm bib tap with flange Chromeum plated Jaquar make queen series	Each	1483
735	MAT-02233	BMW-I.141	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook of Jaquar make queen series with 7 years warranty Chrome plated	Each	3758
736	MAT-02234	BMW-I.142	Supply & fixing bib cock cum health faucet with 1 m long flexible tube and wall hook of Jaquar make queen series with 7 years warranty: Ivory gold	Each	6319
737	MAT-02235	BMW-I.143	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1557
738	MAT-02236	BMW-I.144	Supply & fixing pillar cock Jaquar make Queen series with 7 years warranty: Ivory gold	Each	2658
739	MAT-02237	BMW-I.145	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1537
740	MAT-02238	BMW-I.146	Supply & fixing Angular stop cocks with wall flange Jaquar make Queen series with 7 years warranty: Ivory gold	Each	2976
741	MAT-02239	BMW-I.147	Supply & fixing Waste coupling 32 mm size full thread with 80 mm height Jaquar make with 7 years warranty: Chrome plated	Each	345
742	MAT-02240	BMW-I.148	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Chrome plated	Each	1469
743	MAT-02241	BMW-I.149	Supply & fixing of Bottle trap Jaquar make with 7 years warranty: Ivory gold	Each	2484
744	MAT-02242	BMW-I.150	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty: Chrome plated	Each	361
745	MAT-02243	BMW-I.151	Supply & Fixing copper pipe 450 mm long with nuts & washers Jaquar make with 7 years warranty: Ivory gold	Each	699
746	MAT-02244	BMW-I.152	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquar make queen series with 7 years warranty: Chrome plated	Each	4748
747	MAT-02245	BMW-I.153	Supply and fixing wall mirror with provision for over head shower and 115 mm long bend pipe with wall flange Jaquar make queen series with 7 years warranty: Ivory gold	Each	7469
748	MAT-02246	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	2203
749	MAT-02247	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	3228
750	MAT-02248	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	12584
751	MAT-02249	BMW-I.157	Supply & fixing Bath tub overflow set complete with over	Each	1532

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			flow cap, 450 mm Ball chain with rubber plug & union bend with brass nut Jaquar make, Ivory gold colour. with 7 years warranty		
752	MAT-02250	BMW-I.158	Supply & fixing sink cock with regular swinging spout with wall flange chromeplated Jaquar make Queen series with 7 years warranty	Each	2201
753	MAT-02251	BMW-I.159	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty:Chrome plated	Each	1445
754	MAT-02252	BMW-I.160	Supply & fixingsoap dish Jaquar make queen series: with 7 years warranty: Ivory Gold	Each	2120
755	MAT-02253	BMW-I.161	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Chrome plated	Each	1164
756	MAT-02254	BMW-I.162	Supply & fixing of toilet paper holder Jaquar make Queen series. with 7 years warranty: Ivory Gold	Each	2049
757	MAT-02255	BMW-I.163	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Chrome plated	Each	1094
758	MAT-02256	BMW-I.164	Supply & Fixing of Towel ring Jaquar make Queen series with 7 years warranty: Ivory Gold	Each	1787
759	MAT-02257	BMW-I.165	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Chrome plated	Each	814
760	MAT-02258	BMW-I.166	Supply & Fixingof towel coat hook Jaquar make Queen series with 7 years warranty:Ivory Gold	Each	1684
761	MAT-02259	BMW-I.167	Supply & Fixing of Towel rod 24 " Jaquar make Queen series Ivory gold colour with 7 years warranty	Each	2793
762	MAT-02260	BMW-I.168	Supply & Fixing of Tumbler holder Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	1957
763	MAT-02261	BMW-I.169	Supply & fixing of Glass shelf 22" Jaquar make Queen series, Ivory gold colour with 7 years warranty	Each	3817
764	MAT-02262	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	2769
765	MAT-02263	BMW-I.171	Supply & Fixing of Bibcock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	814
766	MAT-02264	BMW-I.172	Supply & Fixing of Pillar cock Jaquar Continental series, Chrome Finish with 7 years warranty	Each	1011
767	MAT-02265	BMW-I.173	Supply & Fixing of Angular stopcock with wall flange Jaquar Continental series, Chrome finish with 7 years warranty	Each	752
768	MAT-02266	BMW-I.174	Supply fixing of Waste coupling Jaquar make, Chrome finish with 7 years warranty	Each	327
769	MAT-02267	BMW-I.175	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1469
770	MAT-02268	BMW-I.176	Supply & Fixing of copper pipe 450mm long with nuts & washers Jaquar make, Chrome Finish with 7 years warranty	Each	327
771	MAT-02269	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	3556

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
772	MAT-02270	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	1519
773	MAT-02271	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	4965
774	MAT-02272	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	1159
775	MAT-02273	BMW-I.181	Supply & Fixing Sink cock with regular swinging spout with flange chrome plated Jaquar make Continental series with 7 years warranty	Each	1431
776	MAT-02274	BMW-I.182	Supply & Fixing soap dish Jaquar make Continental series, Chrome Finish with 7 years warranty	Each	1127
777	MAT-02275	BMW-I.183	Supply & Fixing of Toilet paper holder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	752
778	MAT-02276	BMW-I.184	Supply & Fixing of Towel Ring Jaquar make Continental series, Chrome finish with 7 years warranty	Each	865
779	MAT-02277	BMW-I.185	Supply & Fixing Double coat hook Jaquar make Continental series, Chrome finish with 7 years warranty	Each	646
780	MAT-02278	BMW-I.186	Supply & Fixing of towel rail 24" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1397
781	MAT-02279	BMW-I.187	Supply & Fixing of Tumblerholder Jaquar make Continental series, Chrome finish with 7 years warranty	Each	942
782	MAT-02280	BMW-I.188	Supply & Fixing of Glass shelf 22" Jaquar make Continental series, Chrome finish with 7 years warranty	Each	1852
783	MAT-02281	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	3313
784	MAT-02282	BMW-I.190	Supply & Fixing of Bibcock Jaquar Florentine (Quarter turn)series, Chrome Finish with 7 years warranty	Each	1117
785	MAT-02283	BMW-I.191	Supply & Fixing of Pillar cock Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty	Each	1117
786	MAT-02284	BMW-I.192	Supply & Fixing of Angular stopcock with wall flange Jaquar Florentine(Quarter turn)series, Chrome finish with 7 years warranty	Each	1099
787	MAT-02285	BMW-I.193	Supply & Fixing of Bottle Trap Jaquar make, Chrome finish with 7 years warranty	Each	1469
788	MAT-02286	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	4291
789	MAT-02287	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	6467

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
790	MAT-02288	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	1714
791	MAT-02289	BMW-I.197	Supply & Fixing of Rose shower with revolving ball joint & 115mm long shower arm with 7 years warranty	Each	1821
792	MAT-02290	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	3189
793	MAT-02291	BMW-I.199	Supply & Fixing of Jaquar make Sensotronic sensor faucet for wash basin, Chrome plated with 7 years warranty	Each	12525
794	MAT-02292	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	12525
795	MAT-02293	BMW-I.201	Supply & fixing of Jaquar make Auto closing system pillar cock for wash basin, Chrome plated with 7 years warranty	Each	2075
796	MAT-02294	BMW-I.202	Supply& Fixing of Jaquar make Auto Closing system Bibcock, Chrome plated with 7 years warranty	Each	2177
797	MAT-02295	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	133
798	MAT-02296	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	165
799	MAT-02297	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	207
800	MAT-02298	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, capable to withstand pressure up to 80 C including all special composite fittings, plastic & brass blend inserts for elbows, tees, reducers, couplers, connectors etc complete for external works including laying pipes, fixing in position, testing and commissioning etc: 32 mm OD pipe	1 RM	278
801	MAT-02299	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,	1 RM	365

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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		
802	MAT-02300	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	464
803	MAT-02301	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 etc16 mm OD pipe	1 RM	192
804	MAT-02302	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 etc20 mm OD pipe	1 RM	230
805	MAT-02303	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 etc25mm OD pipe	1 RM	284
806	MAT-02304	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 clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc32 mm OD pipe	1 RM	375
807	MAT-02305	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	1 RM	487

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			elbows, tees, reducers, couplers, connectors etc complete with MS Iron clamps at 1.0 M spacing including cutting, chasing walls, making good, laying pipes, fixing in position, testing and commissioning etc40 mm OD pipe		
808	MAT-02306	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 etc50 mm OD pipe	1 RM	615
809	MAT-02307	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 etc16 mm OD pipe	1 RM	157
810	MAT-02308	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 etc20 mm OD pipe	1 RM	186
811	MAT-02309	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 etc25mm OD pipe	1 RM	226
812	MAT-02310	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 excavating trenches up to 1.0 M deep laying pipes, fixing in position, testing, refilling excavated earth and commissioning etc32 mm OD pipe	1 RM	292
813	MAT-02311	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	1 RM	374

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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		
			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" ton 2" Ashirvad Flowgurard 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	MAT-02312	BMW-I.220	15.90mm ODPipe - SDR 13.5	1 RM	53
815	MAT-02313	BMW-I.221	22.20mm ODPipe - SDR 13.5	1 RM	85
816	MAT-02314	BMW-I.222	28.60mm ODPipe - SDR 13.5	1 RM	123
817	MAT-02315	BMW-I.223	34.90mm ODPipe - SDR 13.5	1 RM	193
818	MAT-02316	BMW-I.224	41.30mm ODPipe - SDR 13.5	1 RM	266
819	MAT-02317	BMW-I.225	54mm ODPipe - SDR 13.5	1 RM	437
820	MAT-02318	BMW-I.226	15.90mm ODPipe - SDR 11	1 RM	61
821	MAT-02319	BMW-I.227	22.20mm ODPipe - SDR 11	1 RM	93
822	MAT-02320	BMW-I.228	28.60mm ODPipe - SDR 11	1 RM	144
823	MAT-02321	BMW-I.229	34.90mm ODPipe - SDR 11	1 RM	229
824	MAT-02322	BMW-I.230	41.30mm ODPipe - SDR 11	1 RM	314
825	MAT-02323	BMW-I.231	54mm ODPipe - SDR 11	1 RM	483
826	MAT-02324	BMW-I.232	Supply of 20mm x 1.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	41
827	MAT-02325	BMW-I.233	Supply of 25mm x 2.3mm PN 10/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	62
828	MAT-02326	BMW-I.234	Supply of 32mm x 2.9mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	97
829	MAT-02327	BMW-I.235	Supply of 40mm x 3.7mm PN 10/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	152
830	MAT-02328	BMW-I.236	Supply of 50mm x 4.6mm PN 10/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	272
831	MAT-02329	BMW-I.237	Supply of 63mm x 5.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	427
832	MAT-02330	BMW-I.238	Supply of 75mm x 6.8mm PN 10/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	594
833	MAT-02331	BMW-I.239	Supply of 90mm x 8.2mm PN 10/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	815
834	MAT-02332	BMW-I.240	Supply of 110mm x 10mm PN 10/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	1208
835	MAT-02333	BMW-I.241	Supply of 20mm x 2.8mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	56
836	MAT-02334	BMW-I.242	Supply of 25mm x 3.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	86

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
837	MAT-02335	BMW-I.243	Supply of 32mm x 4.4mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	138
838	MAT-02336	BMW-I.244	Supply of 40mm x 5.5mm PN 16/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	212
839	MAT-02337	BMW-I.245	Supply of 50mm x 6.9mm PN 16/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	380
840	MAT-02338	BMW-I.246	Supply of 63mm x 8.6mm PN 16/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	599
841	MAT-02339	BMW-I.247	Supply of 75mm x 10.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	846
842	MAT-02340	BMW-I.248	Supply of 90mm x 12.3mm PN 16/PPR Pipe conforming to DIN Standards 8077/8083 conforming to IS15801	1 RM	1206
843	MAT-02341	BMW-I.249	Supply of 110mm x 15.1mm PN 16/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	1807
844	MAT-02342	BMW-I.250	Supply of 20mm x 3.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	65
845	MAT-02343	BMW-I.251	Supply of 25mm x 4.2mm PN 20/PPR Pipe conforming to DIN Standards 8077/8078 conforming to IS15801	1 RM	100
846	MAT-02344	BMW-I.252	Supply of 32mm x 5.4mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	161
847	MAT-02345	BMW-I.253	Supply of 40mm x 6.7mm PN 20/PPR Pipe conforming to DIN Standards 8077/8079 conforming to IS15801	1 RM	247
848	MAT-02346	BMW-I.254	Supply of 50mm x 8.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8080 conforming to IS15801	1 RM	439
849	MAT-02347	BMW-I.255	Supply of 63mm x 10.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8081 conforming to IS15801	1 RM	693
850	MAT-02348	BMW-I.256	Supply of 75mm x 12.5mm PN 20/PPR Pipe conforming to DIN Standards 8077/8082 conforming to IS15801	1 RM	984
851	MAT-02349	BMW-I.257	Supply of 90mm x 15mm PN 20/PPR Pipe conforming to DIN Standards 8077/8083	1 RM	1337
852	MAT-02350	BMW-I.258	Supply of 110mm x 18.3mm PN 20/PPR Pipe conforming to DIN Standards 8077/8084 conforming to IS15801	1 RM	2105
853	MAT-02351	BMW-I.259	Supply of 20mm PPR Socket conforming to DIN Standards 8077/8084	1 RM	9
854	MAT-02352	BMW-I.260	Supply of 25mm PPR Socket conforming to DIN Standards 8077/8085	1 RM	13
855	MAT-02353	BMW-I.261	Supply of 32mm PPR Socket conforming to DIN Standards 8077/8086	1 RM	18
856	MAT-02354	BMW-I.262	Supply of 40mm PPR Socket conforming to DIN Standards 8077/8087	1 RM	30
857	MAT-02355	BMW-I.263	Supply of 50mm PPR Socket conforming to DIN Standards 8077/8088	1 RM	59
858	MAT-02356	BMW-I.264	Supply of 63mm PPR Socket conforming to DIN Standards 8077/8089	1 RM	113
859	MAT-02357	BMW-I.265	Supply of 75mm PPR Socket conforming to DIN Standards 8077/8090	1 RM	173

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
860	MAT-02358	BMW-I.266	Supply of 90mm PPR Socket conforming to DIN Standards 8077/8091	1 RM	331
861	MAT-02359	BMW-I.267	Supply of 110mm PPR Socket conforming to DIN Standards 8077/8092	1 RM	589
862	MAT-02360	BMW-I.268	Supply of 32mm PPR Core Flange conforming to DIN Standards 8077/8086	Each	36
863	MAT-02361	BMW-I.269	Supply of 40mm PPR Core Flange conforming to DIN Standards 8077/8087	Each	57
864	MAT-02362	BMW-I.270	Supply of 50mm PPR Core Flange conforming to DIN Standards 8077/8088	Each	74
865	MAT-02363	BMW-I.271	Supply of 63mm PPR Core Flange conforming to DIN Standards 8077/8089	Each	117
866	MAT-02364	BMW-I.272	Supply of 75mm PPR Core Flange conforming to DIN Standards 8077/8090	Each	136
867	MAT-02365	BMW-I.273	Supply of 90mm PPR Core Flange conforming to DIN Standards 8077/8091	Each	348
868	MAT-02366	BMW-I.274	Supply of 110mm PPR Core Flange conforming to DIN Standards 8077/8092	Each	450
869	MAT-02367	BMW-I.275	Supply of 20mm PPR Elbow conforming to DIN Standards 8077/8084	Each	15
870	MAT-02368	BMW-I.276	Supply of 25mm PPR Elbow conforming to DIN Standards 8077/8085	Each	19
871	MAT-02369	BMW-I.277	Supply of 32mm PPR Elbow conforming to DIN Standards 8077/8086	Each	36
872	MAT-02370	BMW-I.278	Supply of 40mm PPR Elbow conforming to DIN Standards 8077/8087	Each	63
873	MAT-02371	BMW-I.279	Supply of 50mm PPR Elbow conforming to DIN Standards 8077/8088	Each	119
874	MAT-02372	BMW-I.280	Supply of 63mm PPR Elbow conforming to DIN Standards 8077/8089	Each	232
875	MAT-02373	BMW-I.281	Supply of 75mm PPR Elbow conforming to DIN Standards 8077/8090	Each	375
876	MAT-02374	BMW-I.282	Supply of 90mm PPR Elbow conforming to DIN Standards 8077/8091	Each	698
877	MAT-02375	BMW-I.283	Supply of 110mm PPR Elbow conforming to DIN Standards 8077/8092	Each	1295
878	MAT-02376	BMW-I.284	Supply of 20mm PPR Tee conforming to DIN Standards 8077/8084	Each	14
879	MAT-02377	BMW-I.285	Supply of 25mm PPR Tee conforming to DIN Standards 8077/8085	Each	24
880	MAT-02378	BMW-I.286	Supply of 32mm PPR Tee conforming to DIN Standards 8077/8086	Each	43
881	MAT-02379	BMW-I.287	Supply of 40mm PPR Tee conforming to DIN Standards 8077/8087	Each	76
882	MAT-02380	BMW-I.288	Supply of 50mm PPR Tee conforming to DIN Standards 8077/8088	Each	135

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
883	MAT-02381	BMW-I.289	Supply of 63mm PPR Tee conforming to DIN Standards 8077/8089	Each	275
884	MAT-02382	BMW-I.290	Supply of 75mm PPR Tee conforming to DIN Standards 8077/8090	Each	538
885	MAT-02383	BMW-I.291	Supply of 90mm PPR Tee conforming to DIN Standards 8077/8091	Each	781
886	MAT-02384	BMW-I.292	Supply of 110mm PPR Tee conforming to DIN Standards 8077/8092	Each	1353
887	MAT-02385	BMW-I.293	Supply of 20mm PPR End Cap conforming to DIN Standards 8077/8084	Each	6
888	MAT-02386	BMW-I.294	Supply of 25mm PPR End Cap conforming to DIN Standards 8077/8085	Each	9
889	MAT-02387	BMW-I.295	Supply of 32mm PPR End Cap conforming to DIN Standards 8077/8086	Each	18
890	MAT-02388	BMW-I.296	Supply of 40mm PPR End Cap conforming to DIN Standards 8077/8087	Each	30
891	MAT-02389	BMW-I.297	Supply of 50mm PPR End Cap conforming to DIN Standards 8077/8088	Each	53
892	MAT-02390	BMW-I.298	Supply of 63mm PPR End Cap conforming to DIN Standards 8077/8089	Each	113
893	MAT-02391	BMW-I.299	Supply of 75mm PPR End Cap conforming to DIN Standards 8077/8090	Each	190
894	MAT-02392	BMW-I.300	Supply of 90mm PPR End Cap conforming to DIN Standards 8077/8091	Each	303
895	MAT-02393	BMW-I.301	Supply of 110mm PPR End Cap conforming to DIN Standards 8077/8092	Each	599
896	MAT-02394	BMW-I.302	Supply of 25mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	11
897	MAT-02395	BMW-I.303	Supply of 32mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	19
898	MAT-02396	BMW-I.304	Supply of 32mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	18
899	MAT-02397	BMW-I.305	Supply of 40mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	31
900	MAT-02398	BMW-I.306	Supply of 40mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	30
901	MAT-02399	BMW-I.307	Supply of 40mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	30
902	MAT-02400	BMW-I.308	Supply of 50mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	46
903	MAT-02401	BMW-I.309	Supply of 50mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	47
904	MAT-02402	BMW-I.310	Supply of 50mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	47
905	MAT-02403	BMW-I.311	Supply of 50mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	48

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
906	MAT-02404	BMW-I.312	Supply of 63mm x 20mm PPR Reducer conforming to DIN Standards 8077/8092	Each	105
907	MAT-02405	BMW-I.313	Supply of 63mm x 25mm PPR Reducer conforming to DIN Standards 8077/8092	Each	105
908	MAT-02406	BMW-I.314	Supply of 63mm x 32mm PPR Reducer conforming to DIN Standards 8077/8092	Each	106
909	MAT-02407	BMW-I.315	Supply of 63mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	107
910	MAT-02408	BMW-I.316	Supply of 63mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	108
911	MAT-02409	BMW-I.317	Supply of 75mm x 40mm PPR Reducer conforming to DIN Standards 8077/8092	Each	156
912	MAT-02410	BMW-I.318	Supply of 75mm x 50mm PPR Reducer conforming to DIN Standards 8077/8092	Each	157
913	MAT-02411	BMW-I.319	Supply of 75mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	199
914	MAT-02412	BMW-I.320	Supply of 90mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	380
915	MAT-02413	BMW-I.321	Supply of 90mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	403
916	MAT-02414	BMW-I.322	Supply of 110mm x 63mm PPR Reducer conforming to DIN Standards 8077/8092	Each	508
917	MAT-02415	BMW-I.323	Supply of 110mm x 75mm PPR Reducer conforming to DIN Standards 8077/8092	Each	591
918	MAT-02416	BMW-I.324	Supply of 110mm x 90mm PPR Reducer conforming to DIN Standards 8077/8092	Each	637
919	MAT-02417	BMW-I.325	Supply of 25mm x 20mm x 25mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	30
920	MAT-02418	BMW-I.326	Supply of 32mm x 25mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	52
921	MAT-02419	BMW-I.327	Supply of 32mm x 20mm x 32mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	52
922	MAT-02420	BMW-I.328	Supply of 40mm x 20mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	86
923	MAT-02421	BMW-I.329	Supply of 40mm x 25mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	87
924	MAT-02422	BMW-I.330	Supply of 40mm x 32mm x 40mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	89
925	MAT-02423	BMW-I.331	Supply of 50mm x 20mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	124
926	MAT-02424	BMW-I.332	Supply of 50mm x 25mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	125
927	MAT-02425	BMW-I.333	Supply of 50mm x 32mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	129
928	MAT-02426	BMW-I.334	Supply of 50mm x 40mm x 50mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	130

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
929	MAT-02427	BMW-I.335	Supply of 63mm x 20mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	358
930	MAT-02428	BMW-I.336	Supply of 63mm x 25mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	360
931	MAT-02429	BMW-I.337	Supply of 63mm x 32mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	365
932	MAT-02430	BMW-I.338	Supply of 63mm x 40mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	371
933	MAT-02431	BMW-I.339	Supply of 63mm x 50mm x 63mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	377
934	MAT-02432	BMW-I.340	Supply of 75mm x 50mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	506
935	MAT-02433	BMW-I.341	Supply of 75mm x 63mm x 75mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	514
936	MAT-02434	BMW-I.342	Supply of 90mm x 50mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	681
937	MAT-02435	BMW-I.343	Supply of 90mm x 63mm x 90mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	724
938	MAT-02436	BMW-I.344	Supply of 110mm x 75mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1235
939	MAT-02437	BMW-I.345	Supply of 110mm x 90mm x 110mm PPR Reducer Tee conforming to DIN Standards 8077/8092	Each	1284
940	MAT-02438	BMW-I.346	Supply of 20mm x 1/2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	95
941	MAT-02439	BMW-I.347	Supply of 25mm x 1/2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	97
942	MAT-02440	BMW-I.348	Supply of 25mm x 3/4" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	170
943	MAT-02441	BMW-I.349	Supply of 32mm x 1/2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	174
944	MAT-02442	BMW-I.350	Supply of 32mm x 3/4" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	179
945	MAT-02443	BMW-I.351	Supply of 32mm x 1" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	277
946	MAT-02444	BMW-I.352	Supply of 40mm x 1 1/4" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	410
947	MAT-02445	BMW-I.353	Supply of 50mm x 1 1/2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	572
948	MAT-02446	BMW-I.354	Supply of 63mm x 2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	761
949	MAT-02447	BMW-I.355	Supply of 75mm x 2 1/2" PPR Female Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1467
950	MAT-02448	BMW-I.356	Supply of 20mm x 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	147
951	MAT-02449	BMW-I.357	Supply of 25mm x 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	152

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
952	MAT-02450	BMW-I.358	Supply of 25mm x 3/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	222
953	MAT-02451	BMW-I.359	Supply of 32mm x 3/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	232
954	MAT-02452	BMW-I.360	Supply of 32mm x 1" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	431
955	MAT-02453	BMW-I.361	Supply of 40mm x 1 1/4" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	505
956	MAT-02454	BMW-I.362	Supply of 50mm x 1 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	706
957	MAT-02455	BMW-I.363	Supply of 63mm x 2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1086
958	MAT-02456	BMW-I.364	Supply of 75mm x 2 1/2" PPR Male Threaded Adaptor conforming to DIN Standards 8077/8092	Each	1737
959	MAT-02457	BMW-I.365	Supply of 20mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	102
960	MAT-02458	BMW-I.366	Supply of 25mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	106
961	MAT-02459	BMW-I.367	Supply of 25mm x 3/4" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	163
962	MAT-02460	BMW-I.368	Supply of 32mm x 1/2" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	157
963	MAT-02461	BMW-I.369	Supply of 32mm x 3/4" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	183
964	MAT-02462	BMW-I.370	Supply of 32mm x 1" PPR Female Threaded Elbow conforming to DIN Standards 8077/8092	Each	306
965	MAT-02463	BMW-I.371	Supply of 20mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	152
966	MAT-02464	BMW-I.372	Supply of 25mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	167
967	MAT-02465	BMW-I.373	Supply of 25mm x 3/4" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	221
968	MAT-02466	BMW-I.374	Supply of 32mm x 1/2" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	212
969	MAT-02467	BMW-I.375	Supply of 32mm x 1" PPR Male Threaded Elbow conforming to DIN Standards 8077/8092	Each	458
970	MAT-02468	BMW-I.376	Supply of 20mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	98
971	MAT-02469	BMW-I.377	Supply of 25mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	108
972	MAT-02470	BMW-I.378	Supply of 25mm x 3/4" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	179
973	MAT-02471	BMW-I.379	Supply of 32mm x 1/2" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	189
974	MAT-02472	BMW-I.380	Supply of 32mm x 3/4" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	212

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
975	MAT-02473	BMW-I.381	Supply of 32mm x 1" PPR Female Threaded Tee conforming to DIN Standards 8077/8092	Each	298
976	MAT-02474	BMW-I.382	Supply of 20mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	153
977	MAT-02475	BMW-I.383	Supply of 25mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	163
978	MAT-02476	BMW-I.384	Supply of 25mm x 3/4" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	234
979	MAT-02477	BMW-I.385	Supply of 32mm x 1/2" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	240
980	MAT-02478	BMW-I.386	Supply of 32mm x 3/4" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	253
981	MAT-02479	BMW-I.387	Supply of 32mm x 1" PPR Male Threaded Tee conforming to DIN Standards 8077/8092	Each	467
982	MAT-02480	BMW-I.388	Supply of 20mm x 1/2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	394
983	MAT-02481	BMW-I.389	Supply of 25mm x 3/4" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	591
984	MAT-02482	BMW-I.390	Supply of 32mm x 1" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	789
985	MAT-02483	BMW-I.391	Supply of 40mm x 1 1/4" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1106
986	MAT-02484	BMW-I.392	Supply of 50mm x 1 1/2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	1777
987	MAT-02485	BMW-I.393	Supply of 63mm x 2" PPR Female Threaded Union conforming to DIN Standards 8077/8092	Each	2822
988	MAT-02486	BMW-I.394	Supply of 20mm x 1/2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	452
989	MAT-02487	BMW-I.395	Supply of 25mm x 3/4" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	601
990	MAT-02488	BMW-I.396	Supply of 32mm x 1" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	789
991	MAT-02489	BMW-I.397	Supply of 40mm x 1 1/4" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	986
992	MAT-02490	BMW-I.398	Supply of 50mm x 1 1/2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	1875
993	MAT-02491	BMW-I.399	Supply of 63mm x 2" PPR Male Threaded Union conforming to DIN Standards 8077/8092	Each	3159
994	MAT-02492	BMW-I.400	Supply of 20mm PPR Union conforming to DIN Standards 8077/8092	Each	86
995	MAT-02493	BMW-I.401	Supply of 25mm PPR Union conforming to DIN Standards 8077/8092	Each	101
996	MAT-02494	BMW-I.402	Supply of 32mm PPR Union conforming to DIN Standards 8077/8092	Each	166
997	MAT-02495	BMW-I.403	Supply of 20mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	157

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
998	MAT-02496	BMW-I.404	Supply of 25mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	207
999	MAT-02497	BMW-I.405	Supply of 32mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	218
1000	MAT-02498	BMW-I.406	Supply of 40mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	445
1001	MAT-02499	BMW-I.407	Supply of 50mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	519
1002	MAT-02500	BMW-I.408	Supply of 63mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	840
1003	MAT-02501	BMW-I.409	Supply of 75mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1382
1004	MAT-02502	BMW-I.410	Supply of 90mm PPR Ball Valve conforming to DIN Standards 8077/8092	Each	1975
1005	MAT-02503	BMW-I.411	Supply of 20mm PPR Clamp conforming to DIN Standards 8077/8092	Each	9
1006	MAT-02504	BMW-I.412	Supply of 25mm PPR Clamp conforming to DIN Standards 8077/8092	Each	12
1007	MAT-02505	BMW-I.413	Supply of 32mm PPR Clamp conforming to DIN Standards 8077/8092	Each	14
1008	MAT-02506	BMW-I.414	Supply of 40mm PPR Clamp conforming to DIN Standards 8077/8092	Each	15
1009	LAB-00315	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	LAB-00316	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) Rate for finished item of work				
	b) Labour charges only				
3	RATES				
	Supply Rates for all the materials are based on market rates excluding GST.				
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				

Sl. No	CFMS Code	Item Code	Description of item	Unit	Basic Rate for SoR 2020-21 (Rs.)
			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		

Note:-

- 1) All Materials conforming to ISI or relevant International Standards shall be used in all CIVIL, Water Supply & Sanitary Fittings, Electrical and Electro-Mechanical Works.
- 2) Concerned departments shall approve the materials either from the manufacturer or from its authorized /certified dealer only and also to approve the brands of the products / materials to be adopted in their estimates at their end. In case common approval is required by the committee, concerned authority shall propose with all the details after thorough verification, to the committee for considering the proposal.
- 3) SSR rates for Civil and Water supply & Sanitary items are purely for 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.
- 4) The rates published in the Buildings SoR 2020-21 are the ceiling rates only and the estimate preparing authorities are responsible for the correctness and reasonableness of the rates and technical specifications adopted in the estimates.

ELECTRICAL AND ELECTRO-MECHANICAL WORKS

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5.9	REPAIRING OF FANS,COOLERS,PUMPS,MOTORS, FRIDGES AND AIR CONDITIONERS		
	SECTION - 6		
6.1	SWAGED, OCTOGANAL AND GRP POLES AND ACCESSORIES.		
6.2	LT PANEL AND ACCESSORIES		
6.3	SUBSTATION EQUIPMENT AND TRANSFORMERS		
6.4	MAINTENANCE AND REPAIRS OF TRANSFORMERS		
6.5	OVERHEAD LINES AND LINE MATERIALS		

6.6	LIGHTNING PROTECTIVE SYSTEMS		
6.7	EARTHINGS		
	SECTION - 7		
7.1	LOCAL AREA NETWORK		
7.2	RACEWAYS AND JUNCTION BOXES		
7.3	COMPUTERS,PRINTERS AND SCANNERS		
	SECTION - 8		
8.1	MISCELLANIOUS ITEMS		
8.2	LEGEND PLATES		
8.3	COPPER/ALUMINIUM/GI ITEMS		
8.4	SMC TYPE SUPPORTS FOR BUSBARS		
8.5	LABOUR RATES		
	SECTION - 9		
9.1	WIRELESS FIRE ALARAM SYSTEM		
9.2	ADDRESSABLE - FIRE ALARAM SYSTEM		
9.3	CONVENTIONAL - FIRE ALARAM SYSTEM		
9.4	POWDER BASED FIRE EXTINGUISHERS		
9.5	FIRE HYDRANT AND SPRINKLER SYSTEM		
	SECTION - 10		
10.1	DIESEL GENERATORS		
	SECTION - 11		
11.1	INVERTERS AND ONLINE U P S SYSTEMS		
	SECTION- 12		
12.1	TEMPORARY ILLUMINATION		
12.2	HIRING OF GENERATORS (TE-DG)		
	SECTION - 13		
13.1	LIFTS (New Installation)		
13.2	LIFT REPAIR/MODERNIZATION		
13.3	DISMANTLING		

FOREWORD

- 1 Overheads and Contractor's profit as mentioned in the Preamble for Buildings SOR 2020-21 (Civil & Electrical) is applicable to original Electrical works subject to the fulfillment of the conditions mentioned in para 3.0 of Preamble
- 2 Municipal Area Allowance, Agency or Tribal area allowance or any such allowance on the labour components is applicable to Electrical works as per the Para 4.0(1) of Preamble
- 3 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.
- 4 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.
- 5 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.
- 6 The rates for common civil items including labour rates have to be adopted from prevailing SOR.
- 7 The rates for all types of electrical items proposed in SOR are exclusive of GST(basic rates).
- 8 The rates for items such as Refrigerators / A.C. Chilled Water 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 SOR. However, relevant data without rates is provided in the standard schedule data for electrical works. .
- 9 In case of any addition/alteration/rectification to the proposed SOR, the approval has to be obtained from the Chief Engineer R&B Electrical . Temporary approvals for materials which are under relevant specifications of the BIS and IEC 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 Andhra Pradesh. Hence local manufacturers are considered as per Public Procurement order 2017, Ministry of Home affairs, Government of India.

Chief Engineer(R&B) Electrical

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		SECTION - 1		
	1.1	M.S. CONDUIT PIPES		
1	ELEC-1.1.1	Supply of ISI, outer dia,..... thickness MS conduit pipe as per IS-9537 Part II Makes: NAI / Bharath / GB / AKG.		
	a	20 mm (1.6 mm thick)	1 RM	90
	b	25 mm (1.6 mm thick)	1 RM	115
	c	32 mm (1.6 mm thick)	1 RM	165
	d	38 mm (2.0 mm thick)	1 RM	270
	e	50 mm (2.0 mm thick)	1 RM	345
2	ELEC-1.1.2	Supply of MS Junction box normal range big size long neck.		
	a	19/20 mm	1 No	25
	b	25 mm	1 No	30
	c	32 mm	1 No	70
	d	40/38 mm	1 No	100
	e	50 mm	1 No	190
3	ELEC-1.1.3	Supply of .....MS Junction deep box.		
	a	20/25 mm	1 No	65
	b	32 mm	1 No	115
	c	40 mm	1 No	140
	d	50 mm	1 No	170
4	ELEC-1.1.4	Supply of MS Inspection Bends.		
	a	19/20 mm	1 No	22
	b	25 mm	1 No	25
	c	32 mm	1 No	55
	d	40/38 mm	1 No	80
	e	50 mm	1 No	170
5	ELEC-1.1.5	Supply of MS Inspection Tee.		
	a	19/20 mm	1 No	25
	b	25 mm	1 No	30

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	32 mm	1 No	70
	d	40/38 mm	1 No	85
	e	50 mm	1 No	175
6	ELEC-1.1.6	Supply of MS Inspection Elbow.		
	a	19/20 mm	1 No	22
	b	25 mm	1 No	30
	c	32 mm	1 No	55
	d	40/38 mm	1 No	70
	e	50 mm	1 No	160
7	ELEC-1.1.7	Supply of MS Inspection 10 Guage G.I. checknut of size		
	a	19/20 mm	100 Nos	200
	b	25 mm	100 Nos	250
	c	32 mm	100 Nos	500
	d	40/38 mm	100 Nos	725
	e	50 mm	100 Nos	1210
8	ELEC-1.1.8	Supply of Saddles with Base.		
	a	19/20 mm	100 Nos	215
	b	25 mm	100 Nos	225
	c	32 mm	100 Nos	380
	d	40/38 mm	100 Nos	625
	e	50 mm	100 Nos	790
9	ELEC-1.1.9	Supply of.....20 guage Saddles.		
	a	19/20 mm	100 Nos	110
	b	25 mm	100 Nos	150
	c	32 mm	100 Nos	240
	d	40/38 mm	100 Nos	310
	e	50 mm	100 Nos	380
10	ELEC-1.1.10	Supply of 16 Guage socket coupler.		
	a	19/20 mm	12 Nos	60

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	25 mm	12 Nos	80
	c	32 mm	12 Nos	130
	d	38 mm	12 Nos	170
	e	40mm	12 Nos	190
	f	50 mm	12 Nos	400
11	ELEC-1.1.11	Supply of 19mm Ball Socket.		
	a	19 mm	12 Nos	230
	b	25 mm	12 Nos	350
	1.2	PVC CONDUIT PIPES		
12	ELEC-1.2.1	Supply of ISI outer dia heavy grade with IS:9537 part 3 FRLS regid PVC pipe Makes : Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar /Polycab/Anchor/ Polyline/ Orbit/AKG/Beljin		
	a	20 mm(2.10mm thickness)	1 RM	25
	b	25 mm(2.20mm thickness)	1 RM	33
13	ELEC-1.2.2	Supply of ISI outer dia medium grade with IS:9537 part 3 FRLS regid PVC pipe Makes : Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar /Polycab/Anchor/ Polyline/ Orbit/ AKG/Beljin		
	a	20mm (1.55 mm thickness)	1 RM	18
	b	25mm (1.80 mm thickness)	1 RM	25
	c	32mm (2.10 mm thickness)	1 RM	39
	d	40mm (2.30 mm thickness)	1 RM	53
	e	50mm (2.85 mm thickness)	1 RM	75
	NOTE:Add 5% extra on above price for Red/Yellow/Blue/Black/Green Colour PVC pipes for specific purpose Usage			
14	ELEC-1.2.3	Supply of ISI width and 12.5mm height Casing and Caping. Makes: Precision/VIP / Modi/ GoldMedal / Million plast / GM / Sudhakar / Polyline/Orbit/Anchor/Beljin		
	a	19/20 mm	1 RM	20
	b	25mm	1 RM	30
	c	32mm	1 RM	35
	d	38/40mm	1 RM	58

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
15	ELEC-1.2.4	Supply of FRPP corrugated Flexible conduit pipe. Make:Precision/ VIP / GoldMedal / Million plast / Sudhakar / Polyline /Anchor/Beljin		
	a	19/20 mm	1 RM	12
	b	25mm	1 RM	15
	c	32mm	1 RM	24
	d	38/40mm	1 RM	33
	e	50 mm	1 RM	54
16	ELEC-1.2.5	Supply of PVC Flexible Couplings for FRPP Corrugated conduit pipe Makes:Precision/ VIP / GoldMedal / Million plast / Sudhakar / Polyline /Anchor/Beljin		
	a	19/20 mm	1 No	10
	b	25mm	1 No	15
	c	32mm	1 No	25
	d	40mm	1 No	30
	e	50 mm	1 No	55
17	ELEC-1.2.6	Supply of..... PVC Junction Boxes confirms to IS : 3419 Make :Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar / Polyline/ Orbit/Anchor/AKG/Polycab/Beljin		
	a	19/20 mm	1 No	19
	b	25mm	1 No	20
	c	32mm	1 No	35
	d	40mm	1 No	37
	e	50 mm	1 No	50
18	ELEC-1.2.7	Supply of .....PVC deep Junction Boxes confirms to IS : 3419. Make :Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar / Polyline/ Polycab /Orbit/Anchor/Beljin		
	a	19/20 mm	1 No	23
	b	25mm	1 No	25
	c	32mm	1 No	40
	d	40/38 mm	1 No	44
	e	50 mm	1 No	64
19	ELEC-1.2.8	Supply of PVC Bends. Make : Precision/Universal& Marudhar/VIP / GoldMedal / Million plast / GM / Sudhakar / Polyline/ Polycab/ AKG/Orbit/Beljin		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	19/20 mm dia 1.5mm thick	1 No	6
	b	25mm dia 1.5mm thick	1 No	8
	c	32mm dia 2.0mm thick	1 No	18
	d	40 mm dia 2.0mm thick	1 No	20
	e	50 mm dia 2.0mm thick	1 No	29
20	ELEC-1.2.9	Dummy Cover for PVC junction boxes	1 No	5
	1.3	HOT DIP GALVANIZED METAL BOXES for switch boards		
21	ELEC-1.3.1	Supply of..... Hot Dip galvanized 20/18 SWG Module box with earthing terminal		
	a	1 or 2	1 No	57
	b	3	1 No	80
	c	4	1 No	95
	d	6	1 No	130
	e	8 or 9	1 No	170
	f	12	1 No	205
		METALLIC BOXES		
22	ELEC-1.3.2	Supply of .....18 SWG sheet steel boxes duly finished with two coats of zinchromate redoxide		
	a	100mmx100x50mm	1 No	50
	b	175mmx100x60mm	1 No	60
	c	150mmx150x60mm	1 No	70
	d	200mmx150x60mm	1 No	80
	e	200mmx250x75mm	1 No	100
	f	250mmx300x75mm	1 No	175
	g	300mmx375x100mm	1 No	225
	1.4	T.W. BOARDS		
23	ELEC-1.4.1	Supply of T.W.Deep Box of Size		
	a	4" x 4"	1 No	10
	b	4" x 7"	1 No	18
	c	6" x 6"	1 No	20
	d	6" x 8"	1 No	30

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	8" x 10"	1 No	50
	f	10" x 12"	1 No	70
	g	12" x 15"	1 No	110
25	ELEC-1.4.2	Supply of Decolam Board of size		
	a	4" x 4"	1 No	15
	b	4" x 7"	1 No	25
	c	6" x 6"	1 No	35
	d	6" x 8"	1 No	40
	e	8" x 10"	1 No	70
	f	10" x 12"	1 No	110
	g	12" x 15"	1 No	165
26	ELEC-1.4.3	Supply of Peeta Boards of size		
	a	9" x 14"	1 No	50
	b	12" x 10"	1 No	55
	c	15" x 20"	1 No	190
	d	18" x 24"	1 No	275
	e	18" x 30"	1 No	340
27	ELEC-1.4.4	Supply of No.8 Screws of		
	a	12mm.	100 Nos	60
	b	25mm.	100 Nos	75
	c	30mm.	100 Nos	90
	d	35/38mm.	100 Nos	100
	e	50mm	100 Nos	116
	f	63/75mm.	100 Nos	140
	1.5	COPPER FLEXIBLE CABLES (AS PER IS:694)		
28	ELEC-1.5.1	Supply of FRLS-H / HFFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Finolex / RR kabel / Havells /KEI/Polycab/Gloster/Goldmedal/GM		
	a	14/0.3mm (1.0 Sqmm)	100 RM	1050
	b	22/0.3mm (1.5 Sqmm)	100 RM	1510
	c	36/0.3mm (2.5 Sqmm)	100 RM	2440

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	d	56/0.3mm (4.0 Sqmm)	100 RM	3725
	e	84/0.3mm (6.0 Sqmm)	100 RM	5700
	f	140/0.3mm (10.0 Sqmm)	100 RM	8800
	g	126/0.4mm (16.0 Sqmm)	100 RM	13900
29	ELEC-1.5.2	Supply of FRLS / HFFR / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: V-Guard/Bonton /Finecab/ HPL / Million /Fortune Art / Sudhakar/Orbit/ Tamra/ Anchor/Plaza/ Vihan/Oilvin/Laser/Beljin/Rhino/ Standard / Vimal		
	a	14/0.3mm (1.0 Sqmm)	100 RM	925
	b	22/0.3mm (1.5 Sqmm)	100 RM	1320
	c	36/0.3mm (2.5 Sqmm)	100 RM	2140
	d	56/0.3mm (4.0 Sqmm)	100 RM	3300
	e	84/0.3mm (6.0 Sqmm)	100 RM	5100
	f	140/0.3mm (10.0 Sqmm)	100 RM	7750
	g	126/0.4mm (16.0 Sqmm)	100 RM	12900
30	ELEC-1.5.3	Supply of FRLS / ZHFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable. Makes: Star / Airson/ Benlo / Gemscab /Rajnigandha/ Avocab/CRI/Salzer/Spykaar/Unicab/AKG		
	a	14/0.3mm (1.0 Sqmm)	100 RM	800
	b	22/0.3mm (1.5 Sqmm)	100 RM	1120
	c	36/0.3mm (2.5 Sqmm)	100 RM	1800
	d	56/0.3mm (4.0 Sqmm)	100 RM	2700
	e	84/0.3mm (6.0 Sqmm)	100 RM	4200
	f	140/0.3mm (10.0 Sqmm)	100 RM	6650
	g	126/0.4mm (16.0 Sqmm)	100 RM	10200
		SHEATHED FLEXIBLE COPPER CABLES		
31	ELEC-1.5.4	Supply of .....PVC insulated and sheathed FRLS copper round cable for voltage up to 1100V as per IS 694/1990. Makes: Finolex / RR kabel / Havells /KEI/Polycab/ Gloster/Goldmedal/GM		
	a	Single Core 25 Sqmm	1 RM	220

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	Single Core 35 Sqmm	1 RM	310
	c	Single Core 50 Sqmm	1 RM	440
	d	Single Core 70 Sqmm	1 RM	600
	e	2 core 1.5 Sqmm	1 RM	45
	f	2 core 2.5 Sqmm	1 RM	70
	g	2 core 4.0 Sqmm	1 RM	95
	h	2 core 6 Sqmm	1 RM	145
	i	2 core 10 Sqmm	1 RM	210
	j	2 core 16 Sqmm	1 RM	250
	k	3 core 1.5 Sqmm	1 RM	60
	l	3 core 2.5 Sqmm	1 RM	100
	m	3 core 4.0 Sqmm	1 RM	140
	n	3 core 6 Sqmm	1 RM	175
	o	3 core 10 Sqmm	1 RM	230
	p	3 core 16 Sqmm	1 RM	370
	q	4 core 1.5 Sqmm	1 RM	80
	r	4 core 2.5 Sqmm	1 RM	125
	s	4 core 4.0 Sqmm	1 RM	190
	t	4 core 6 Sqmm	1 RM	280
	u	4 core 10 Sqmm	1 RM	430
	v	4 core 16 Sqmm	1 RM	545
32	ELEC-1.5.5	Supply of .....PVC insulated and sheathed FRLS copper round cable for voltage up to 1100V as per IS 694/1990. Makes: V-Guard/Bonton /Finecab/ HPL / Million / Fortune Art /Sudhakar/Orbit/ Tamra/ Anchor/Plaza/Vihan/Spykaar/Ollvin/Laser/Beljin/Rhino/ Standard/ Vimal		
	a	Single Core 25 Sqmm	1 RM	195
	b	Single Core 35 Sqmm	1 RM	285
	c	Single Core 50 Sqmm	1 RM	385
	d	Single Core 70 Sqmm	1 RM	555
	e	2 core 1.5 Sqmm	1 RM	40
	f	2 core 2.5 Sqmm	1 RM	60

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	2 core 4.0 Sqmm	1 RM	85
	h	2 core 6 Sqmm	1 RM	135
	i	2 core 10 Sqmm	1 RM	190
	j	2 core 16 Sqmm	1 RM	240
	k	3 core 1.5 Sqmm	1 RM	55
	l	3 core 2.5 Sqmm	1 RM	90
	m	3 core 4.0 Sqmm	1 RM	120
	n	3 core 6 Sqmm	1 RM	165
	o	3 core 10 Sqmm	1 RM	215
	p	3 core 16 Sqmm	1 RM	340
	q	4 core 1.5 Sqmm	1 RM	70
	r	4 core 2.5 Sqmm	1 RM	100
	s	4 core 4.0 Sqmm	1 RM	160
	t	4 core 6 Sqmm	1 RM	260
	u	4 core 10 Sqmm	1 RM	395
	v	4 core 16 Sqmm	1 RM	515
33	ELEC-1.5.6	Supply of 23 / 0060 twin core twisted / flat heavy Copper wire. Makes: Finolex / Polycab / Havells / V-Guard / Gold Medal / GM / Million / Vimal / Airson/CRI/ Tamra/ ollvin/Avocab	100 RM	950
	1.6	SERVICE MAINS AND FLAT CABLE FOR SUBMERSIBLE MOTORS.		
34	ELEC-1.6.1	Supply of .....WPSC (Weather Proof Single Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finocab / Nakoda / Plaza/ Payal / Sudhakar/ Rajnigandha/ Airson/Orbit/ollvin/Beljin		
	a	2.5 Sqmm	100 RM	690
	b	6 Sqmm	100 RM	1375
	c	10 Sqmm	100 RM	1500
	d	16 Sqmm	100 RM	2500
35	ELEC-1.6.2	Supply of .....WPTC (Weather Proof Twin Core) ISI Alluminium Wire. Makes: Gold Medal / Million / GM / Vimal / Finocab / Nakoda / Plaza/ Payal / Sudhakar/ Rajnigandha/ Airson/Orbit/ollvin/Beljin		
		6 Sqmm	100 RM	2800

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		10 Sqmm	100 RM	3385
36	ELEC-1.6.3	Supply of 3 Core..... Flat Copper cable of ISI for Submersible Motors confirming to IS:694:1990. Makes: Finolex / RR Kabel/ Polycab / Havells / KEI/Gloster/Goldmedal/GM		
	a	1.5 Sqmm	1 RM	55
	b	2.5 Sqmm	1 RM	80
	c	4.0 Sqmm	1 RM	125
	d	6.0 Sqmm	1 RM	180
	e	10.0 Sqmm	1 RM	285
	f	16.0 Sqmm	1 RM	375
37	ELEC-1.6.4	Supply of 3 Core..... Flat Copper cable of ISI for Submersible Motors confirming to IS:694:1990. Makes: V-Guard / Million / Vihan/Vimal /Finecab/ CRI/ Lubi/Unicab/Hitech/ Spykaar/ Airson/Oilvin/ Laser/ Beljin/Rhino		
	a	1.5 Sqmm	1 RM	50
	b	2.5 Sqmm	1 RM	72
	c	4.0 Sqmm	1 RM	110
	d	6.0 Sqmm	1 RM	160
	e	10.0 Sqmm	1 RM	260
	f	16.0 Sqmm	1 RM	340
	1.7	FLUSH TYPE SWITCHES AND ACCESSORIES		
38	ELEC-1.7.1	Supply of Makes: GM G Home / Gold Medal Olive / Million Zoom / Great white Omega/Koncept/Vimal opel/ Anchor/Vihan/CPL/ Havells Reo		
	a	6A 1 Way flush type Swich.	1 No	15
	b	6A 2 Way flush type Swich.	1 No	19
	c	6A 2 pin flush type Socket.	1 No	18
	d	6A 3/2 pin flush type Socket with shutter.	1 No	24
	e	6A flush type Neon Indicator.	1 No	18
	f	6A Triangle Plug Top of	1 No	30

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	1 Way flush type Bed Swich / Bell Push.	1 No	19
	h	16A flush type Swich.	1 No	60
	i	16A flush type Socket with shutter.	1 No	60
	j	16A flush type Switch Socket combined (2 in one).	1 No	90
	k	16A Triangle Plug Top	1 No	45
	l	stepped type Electronic Regulator.	1 No	180
	m	3 Plate Jumbo Ceiling Rose.	1 No	19
	n	BH / SBH.	1 No	18
	o	Pendent Holder / Adopter.	1 No	15
	p	Telephone Jack with Connector.	1 No	45
	q	TV Antenna Outlet.	1 No	25
	r	15A/10A Flush type Fuse.	1 No	30
	s	32A DP Flush type.	1 No	95
	t	Calling Bell.	1 No	65
	u	Buzzer.	1 No	55
	v	Ding Dong Bell.	1 No	135
	w	Electronic Musical Bell.	1 No	220
	x	Remote Bell.	1 No	635
	y	MC Holder.	1 No	20
	z	Spike Guard with 1 No Switch and 4 Nos Sockets.	1 No	350

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	A	Spike Guard with 4 No Switches and 4 Nos Sockets.	1 No	500
	1.8	MODULAR SWITCHES AND ACCESSORIES		
39	ELEC-1.8.1	Supply of Makes: Legrand Arteur / Schneider Zen celo/ Crabtree Murano or Ducor /L&T-englaze/ GM-(Four-Five)/ Goldmedal(GIFA)		
	a	6A / 10A 1 Way 1 Module Modular Switch.	1 No	85
	b	6A / 10A 2 Way 1 Module Modular Switch.	1 No	95
	c	6A / 10A 2 Pin 2 Module Modular Socket.	1 No	85
	d	6A / 10A 3/2 Pin 2 Module Modular Socket with shutter.	1 No	130
	e	6A / 10A 1 Module Modular Switch with Neon Indicator.	1 No	105
	f	6A / 10A Modular Bell Push with Neon Indicator.	1 No	125
	g	16A / 10A Modular Flush Fuse with Neon Indicator.	1 No	115
	h	16A / 20A 1 Way 1 Module Modular Switch.	1 No	115
	i	16A / 20A 2 Way 1 Module Modular Switch.	1 No	125
	j	20A 1 Way 1 Module Modular Switch with Indicator.	1 No	125
	k	20A Modular Socket with shutter.	1 No	175
	l	16A/6A 1 way Combi Socket Modular Socket with shutter	1 No	180
	m	16A Triangle Top.	1 No	145
	n	2 Module Modular type Electronic step type Fan Regulator.	1 No	450
	o	Modular socket type Telephone jack with Connector	1 No	90
	p	Modular co-Axial socket type TV Antenna outlet.	1 No	90
	q	Push type button motor starter for A.C Units	1 No	725

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
40	ELEC-1.8.2	Supply of Makes: Legrand Myrius / Havells Coral or Fabio / L&T/ HPL/ Schneider Livia/ GM-(G NINE/ GX) C&S/ Goldmedal (Curve/Air) / Million Mway / Logus Platina/ Panasonic Vision / Salzer S90series/Precision/Koncept (Samrat/ Qura) /Ploycab(Levana)/ Anchor-Roma/ IndoAsian/ Pointer/ CPL/Kolors/ Vihan/Hosper/ Vimal		
	a	6A / 10A 1 Way 1 Module Modular Switch.	1 No	55
	b	6A / 10A 2 Way 1 Module Modular Switch.	1 No	65
	c	6A / 10A 2 Pin 2 Module Modular Socket.	1 No	55
	d	6A / 10A 3/2 Pin 2 Module Modular Socket with shutter.	1 No	85
	e	6A / 10A 1 Module Modular Switch with Neon Indicator.	1 No	70
	f	6A / 10A Modular Bell Push with Neon Indicator.	1 No	80
	g	16A / 10A Modular Flush Fuse with Neon Indicator.	1 No	75
	h	16A / 20A 1 Way 1 Module Modular Switch.	1 No	75
	i	16A / 20A 2 Way 1 Module Modular Switch.	1 No	85
	j	20A 1 Way 1 Module Modular Switch with Indicator.	1 No	80
	k	20A Modular Socket with shutter.	1 No	125
	l	16A/6A 1 way Combi Socket Modular Socket with shutter	1 No	125
	m	16A Triangle Top.	1 No	60
	n	2 Module Modular type Electronic step type Fan Regulator.	1 No	365
	o	Modular socket type Telephone jack with Connector	1 No	60
	p	Modular co-Axial socket type TV Antenna outlet.	1 No	60
	q	Push type button motor starter for A.C Units	1 No	675
		COVER FRAMES		
41	ELEC-1.8.3	Supply of Makes:Legrand Arteur / Schneider Zen celo/ Crabtree Murano or Ducor /L&T-englaze/ GM-(Four-Five)/ Goldmedal(GIFA)		
	a	1 or 2 Modular Cover Frame.	1 No	60

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	3 Modular Cover Frame.	1 No	70
	c	4 Modular Cover Frame.	1 No	80
	d	6 Modular Cover Frame .	1 No	120
	e	8 Modular Horizontal / Vertical Cover Frame.	1 No	155
	f	12 Modular Vertical Cover Frame.	1 No	190
42	ELEC-1.8.4	Supply of Makes: Legrand Myrius / Havells Coral or Fabio / L&T/ HPL/ Schneider Livia/ GM-(G NINE/ GX) C&S/ Goldmedal (Curve/Air) / Million Mway / Logus Platina/ Panasonic Vision / Salzer S90series/Precision/Koncept (Samrat/ Qura) /Ploycab(Levana)/ Anchor-Roma/ IndoAsian/ Pointer/ CPL/Kolors/ Vihan/Hosper/ Vimal		
	a	1 or 2 Modular Cover Frame.	1 No	50
	b	3 Modular Cover Frame.	1 No	60
	c	4 Modular Cover Frame.	1 No	70
	d	6 Modular Cover Frame .	1 No	100
	e	8 Modular Horizontal / Vertical Cover Frame.	1 No	125
	f	12 Modular Vertical Cover Frame.	1 No	150
	g	SECTION - 2		
	2.1	PANEL MOUNTING SWITCH DISCONNECTOR FUSE UNITS (SDFU)		
43	ELEC-2.1.1	Supply of .....TPN Switch Disconnecter Fuse Unit aCubical type without fuses as per IS: 13947/IEC 60947-3 Makes: L&T / Schneider / C&S / ABB / SIEMENS		
	a	32A	1 No	1300
	b	63A	1 No	2220
	c	125A	1 No	5300
	d	200A	1 No	6950
	e	250A	1 No	8300
	f	400A	1 No	12800
	g	630A	1 No	21700
44	ELEC-2.1.2	Supply of TPN Switch Disconnecter Fuse Unit Cubical type without fuses as per IS: 13947/IEC 60947-3 Makes: Standard / Havells / HPL / Indo Asian / Benlo/Anchor		
	a	32A	1 No	1100

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	63A	1 No	1630
	c	125A	1 No	3650
	d	200A	1 No	5500
	e	250A	1 No	6200
	f	400A	1 No	9500
	g	630A	1 No	15900
	2.2	ON LOAD CHANGEOVER SWITCHES (OPEN EXECUTION)		
45	ELEC-2.2.1	Supply of 4 Pole Change Over Switch on Load with open Execution as per IS:13947 Makes: Socomec / L & T / HPL / Havells/ C&S		
	a	63A	1 No	4100
	b	125A	1 No	7700
	c	200A	1 No	10300
	d	250A	1 No	14700
	e	400A	1 No	22200
	f	630A	1 No	26500
46	ELEC-2.2.2	Supply of 4 Pole Change Over Switch on Load with open Execution as per IS:13947 Makes: ABB / GE / Siemens / Indo Asian / Benlo/Standard		
	a	32 A	1 No	1500
	b	63A	1 No	3700
	c	125A	1 No	7300
	d	200A	1 No	9500
	e	250A	1 No	13500
	f	400A	1 No	20800
	g	630A	1 No	24500
	2.3	OFF LOAD CHANGE OVER SWITCHES IN SS ENCLOSURE		
47	ELEC-2.3.1	Supply of Off load Changeover Switch in sheet steel enclosure as per IS:13947 Makes: HPL / Havells / Standard / Indo Asian / C&S		
	a	32A 240V DP	1 No	1250

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	63A 415V FP	1 No	4300
	c	100A 415V FP	1 No	7550
48	ELEC-2.3.2	Supply of Off load Changeover Switch in sheet steel enclosure as per IS:13947 Makes: Benlo / Million / GoldMedal / Vimal		
	a	32A 240V DP	1 No	725
	b	63A 415V FP	1 No	2500
	c	100A 415V FP	1 No	4700
	2.4	AUTO TRANSFER SWITCH		
49	ELEC-2.4.1	Supply of auto transfer switch for instantaneous switching between sources as per IEC 60947-6-1 Closed transition,(bare unit- without enclosure) with voltage surge suppressor,communication interface etc complete., makes: Socomec /Hager /ABB/ HPL/L&T/Havells		
	a	125A, 415VAC, FP	1 No	35000
	b	160A, 415VAC FP	1 No	36500
	c	200A 415VACFP	1 No	37500
	d	250A, 415VAC FP	1 No	47000
	e	315A, 415VAC FP	1 No	47500
	f	400A, 415VAC FP	1 No	59500
50	ELEC-2.4.2	Supply of .....auto transfer switch for instantaneous switching between sources as per IEC 60947-6-1 Closed transition,(bare unit- without enclosure) with voltage surge suppressor, communication interface etc complete makes: Socomec ATysP/ ABB/L&T		
	a	630A,415VAC FP	1 No	75500
	b	800A, 415VAC FP	1 No	100000
	c	1000A,415VAC FP	1 No	124000
	d	1250A, 415VAC FP	1 No	154000
	e	1600 A, 415VAC FP	1 No	191000
	f	2000 A, 415VAC FP	1 No	279000
	g	2500 A, 415VAC FP	1 No	308000
	h	3200 A, 415VAC FP	1 No	396000
	2.5	REWIRABLE / DOUBLE BREAK SWITCHES IN SS ENCLOSURE		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
51	ELEC-2.5.1	Supply of Rewirable Fuse Switch in SS enclosure as per IS:13947 Makes: HPL / Havells / Standard / Indo Asian/Benlo		
	a	32A 240V SPN	1 No	850
	b	32A 415V TPN	1 No	1900
	c	63A 415V TPN	1 No	3900
	d	100A 415V TPN	1 No	7200
52	ELEC-2.5.2	Supply of Double Break Switch in SS enclosure without fuses as per IS:13947 Makes: HPL / Havells / Standard / Indo Asian /Benlo		
	a	100A 415V TPN	1 No	5700
	b	200A 415V TPN	1 No	8200
53	ELEC-2.5.3	Supply of Rewirable Fuse Switch in SS enclosure as per IS:13947 Makes:Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.		
	a	32A 240V SPN	1 No	600
	b	32A 415V TPN	1 No	920
	c	63A 415V TPN	1 No	2200
	d	100A 415V TPN	1 No	4200
54	ELEC-2.5.4	Supply of .....Double Break Switch in SS enclosure without fuse as per IS:13947 Makes: Anchor / GM / Million / Sputnik / Sigma / Gold Medal / Star/Kundan cab/Anchor.		
	a	100A 415V TPN	1 No	4300
	b	200A 415V TPN	1 No	7000
	2.6	HRC FUSE LINKS (DIN/BOLTED TYPE)		
55	ELEC-2.6.1	Supply of .....HRC Fuse Links as per IS 13703-Part 2/IEC 60269- Part 2 Makes: L & T / G E / C & S / Standard / HPL / Havells / Siemens / Indo Asian		
	a	6A to 35 A	1 No	50
	b	45A to 63A	1 No	75
	c	100 A to 160 A	1 No	235
	d	250A to 350A	1 No	350

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	400A	1 No	665
	f	630A	1 No	1330
	2.7	PORCELAIN REWIRABLE FUSE UNITS.		
56	ELEC-2.7.1	Supply of Porcelain Rewirable Fuse Units. Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal / Benlo /Anchor		
	a	32A 240V	1 No	100
	b	32A 415V	1 No	150
	c	63A 415V	1 No	250
	d	100A 415V	1 No	520
57	ELEC-2.7.2	Supply of..... Porcelain Rewirable Fuse Units with extension strip. Makes: C&S/Standard/HPL/ Sputnik / Million / Gold Medal / Benlo/Anchor		
	a	200A 415V	1 No	850
	b	300A 415V	1 No	1100
	2.8	VOLTAGE SURGE PROTECTORS		
58	ELEC-2.8.1	Supply of Voltage Surge Protector. Makes: Legrand / Siemens / G.E / L&T / Hager/Havells		
	a	2 Pole 2 Module 40 KA 1.4 KV	1 No	7000
	b	4 Pole 4 Module 40 KA 1.4 KV	1 No	13125
	c	2 Pole 2 Module 15 KA 1.2 KV	1 No	5600
	d	4 Pole 4 Module 15 KA 1.2 KV	1 No	10500
	2.9	PANEL MOUNTING MCCBs		
59	ELEC-2.9.1	Supply of, Adjustable, Confirms to IEC 60947-2 and IS 13947-Part 1&2 having Breaking Capacity with thermal magnetic release Panel Mounted. Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2/HPL-Techno		
	a	63A / 60A 3 Pole MCCB,16 KA	1 No	6400
	b	63A / 60A 4 Pole MCCB,16 KA	1 No	6900
	c	125A 3 Pole MCCB,25 KA	1 No	7500
	d	125A 4 Pole MCCB,25 KA	1 No	8700
	e	160A 3 Pole MCCB,25 KA	1 No	9500
	f	160A 4 Pole MCCB,25 KA	1 No	12200
	g	250A 3 Pole MCCB,36/35 KA	1 No	15500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	h	250A 4 Pole MCCB,36/35 KA	1 No	20450
	i	400A 3 Pole MCCB,36/35 KA	1 No	21250
	j	400A 4 Pole MCCB,36/35 KA	1 No	25500
	k	630A 3 Pole MCCB,50 KA	1 No	30500
	l	630A 4 Pole MCCB,50 KA	1 No	37500
	m	800A 3 Pole MCCB,50 KA	1 No	56000
	n	800A 4 Pole MCCB,50 KA	1 No	60000
60	ELEC-2.9.2	Supply of, Adjustable, Confirms to IEC 60947-2 and IS 13947-Part 1&2 having Breaking Capacity with thermal magnetic release Panel Mounted. Makes: GE / ABB / Havells / Standard / Indo Asian		
	a	63A / 60A 3 Pole MCCB,16 KA	1 No	4500
	b	63A / 60A 4 Pole MCCB,16 KA	1 No	5850
	c	125A 3 Pole MCCB,25 KA	1 No	5700
	d	125A 4 Pole MCCB,25 KA	1 No	7450
	e	160A 3 Pole MCCB,25 KA	1 No	7800
	f	160A 4 Pole MCCB,25 KA	1 No	10300
	g	250A 3 Pole MCCB,36/35 KA	1 No	15200
	h	250A 4 Pole MCCB,36/35 KA	1 No	18400
	i	400A 3 Pole MCCB,36/35 KA	1 No	19100
	j	400A 4 Pole MCCB,36/35 KA	1 No	22900
	k	630A 3 Pole MCCB,50 KA	1 No	27000
	l	630A 4 Pole MCCB,50 KA	1 No	32600
	m	800A 3 Pole MCCB,50 KA	1 No	46500
	n	800A 4 Pole MCCB,50 KA	1 No	52000
		PANEL MOUNTING ACBs (Microprocessor Based)		
61	ELEC-2.9.3	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, short circuit and earth fault Protection with display and 20 faults History backup. Makes: Siemens-3WLETU45B / L&T-U Power Omega(MTX3.5 EC) / Schneider -Master pact NW 6.0P /Legrand-DMX3/C&S Winmaster-2)/HPL-Techno		
	a	630A 3 Pole, 50kA Electrically fixed	1 No	105000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	630A 3 Pole, 50kA Electrically drawout	1 No	137000
	c	630A 4 Pole, 50kA Electrically fixed	1 No	127000
	d	630A 4 Pole, 50kA Electrically drawout	1 No	170000
	e	800A 3 Pole, 50kA Electrically drawout	1 No	145000
	f	800A 4 Pole, 50kA Electrically drawout	1 No	180000
	g	1000A 3 Pole, 50kA Electrically drawout	1 No	152000
	h	1000A 4 Pole, 50kA Electrically drawout	1 No	190000
	i	1250A 3 Pole, 50kA Electrically drawout	1 No	200000
	j	1250A 4 Pole, 50kA Electrically drawout	1 No	245000
	k	1600A 3 Pole, 50kA Electrically drawout	1 No	225000
	l	1600A 4 Pole, 50kA Electrically drawout	1 No	260000
	m	2000A 3 Pole, 75kA Electrically drawout	1 No	263000
	n	2000A 4 Pole, 75kA Electrically drawout	1 No	320000
	o	2500A 3 Pole, 75kA Electrically drawout	1 No	360000
	p	2500A 4 Pole, 75kA Electrically drawout	1 No	440000
	q	3200A 3 Pole, 75kA Electrically drawout	1 No	370000
	r	3200A 4 Pole, 75kA Electrically drawout	1 No	470000
62	ELEC-2.9.4	Supply of Air Circuit Breaker Confirms to IS 13947-2, IEC 60947-2 and BS-EN 60947 with Micro processor based having over load, short circuit and earth fault Protection Makes:ABB / GE / Indo Asian / Havells		
	a	630A 3 Pole, 50kA Electrically fixed	1 No	92000
	b	630A 3 Pole, 50kA Electrically drawout	1 No	120000
	c	630A 4 Pole, 50kA Electrically fixed	1 No	105000
	d	630A 4 Pole, 50kA Electrically drawout	1 No	145000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	800A 3 Pole, 50kA Electrically drawout	1 No	125000
	f	800A 4 Pole, 50kA Electrically drawout	1 No	160000
	g	1000A 3 Pole, 50kA Electrically drawout	1 No	140000
	h	1000A 4 Pole, 50kA Electrically drawout	1 No	160000
		AIR INSULATED BUS DUCT		
63	ELEC-2.9.5	Supply, instalation, testing and commisioning of .....Amp, .....KA breaking capacity (100% Neutral busbar) air insulated compact Raising mains/Bus Duct system made of CRCA sheet/Hot Galvanized steel encloser of thickness not less than 0.8 mm having degree of protection of IP 55 as per IEC/EN 61439-6, PVC/Plastic insulated reinforced with glass fibre four strip ALUMINIUM busbar in convinent sections including necessary end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc.,with necessary joints Fire barrrier at each floor Provision of tapping at each floor/every meter,continuous earthing with 2 nos alluminium strip of suitable size (one on each side) including GI clamping brackets,angle iron brackets,steel fastners,connecting to earth system as required . Makes: Legrand (Zucchini) / C&S/Advance-Anant		
	a	400Amp, 50 - 53KA	RM	8750
	b	630Amp, 50 - 63KA	RM	10400
	c	800 Amp, 50 - 76KA	RM	11400
	d	1000 Amp, 50 - 76KA	RM	13100
	e	1250 Amp, 50 - 76KA	RM	13700
	f	1600 Amp, 50 - 76KA	RM	17200
64	ELEC-2.9.6	Supply and Fixing of Spring Bracket with fixing kit for Air Insulated Busduct / Raising Mains. Makes: Legrand (Zucchini) / C&S/Advance-Anant	1 No	5200
65	ELEC-2.9.7	Supply and Fixing of Amps Horizontal / Vertical bends for Air Insulated Bus Duct .Makes: Legrand (Zucchini) / C&S /Advance-Anant		
	a	400 Amps	1 No	10000
	b	630 Amps	1 No	11400
	c	800 Amps	1 No	11900
	d	1000Amps	1 No	13950
	e	1250 Amps	1 No	15000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	1600 Amps	1 No	17000
66	ELEC-2.9.8	Supply and Fixing of .....Amps Tap off box for Air Insulated Busduct. Makes: Legrand (Zucchini) / C&S/Advance-Anant		
	a	125A	1 No	11900
	b	250A	1 No	13800
	c	400A	1 No	20400
	d	630 A	1 No	22200
		SANDWITCH BUSDUCT		
67	ELEC-2.9.9	Supply, instalation, testing and commisioning of .....Amp, .....KA breaking capacity (100% Neutral busbar) sandwich Busduct system made of CRCA sheet/Hot Galvanized steel encloser of thickness not less than 1.5mm having degree of protection of IP 55/IP 65 as per IEC/EN 61439-6, PVC/Plastic insulated reinforced with glass fibre four strip ALUMINIUM busbar in convinent sections including end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. System,etc., with necessary joints Fire barrrier at each floor Provision of tapping at each floor/every meter,continuous earthing with 2 nos alluminium strip of suitable size (one on each side0 including GI clamping brackets,angle iron brackets,steel fastners,connecting to earth system as required .Makes: Legrand (Zucchini) / L&T / Schneider/C&S/Advance-Anant		
	a	630Amp, 36/40	RM	10700
	b	800Amp, 42/50KA	RM	12000
	c	1000Amp, 50KA	RM	13200
	d	1250 Amp,75kA	RM	13800
	e	1600 Amp,80 kA	RM	17300
	f	2000 Amp ,80kA	RM	21200
	g	2500 Amp ,150 kA	RM	30400
	h	3200 Amp,160kA	RM	35200
	i	4000 Amp,160kA	RM	47100
68	ELEC-2.9.10	Supply and Fixing of .....Amps Horizontal / Vertical bends for sandwich Bus Duct .Makes: Legrand (Zucchini) / L&T / Schiender / C&S /Advance-Anant		
	a	630A	1 No	10900
	b	800A	1 No	11800
	c	1000A	1 No	12300
	d	1250 A	1 No	13300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	1600 A	1 No	15200
	f	2000 A	1 No	17700
	g	2500 A	1 No	22300
	h	3200 A	1 No	27100
	i	4000 A	1 No	30400
69	ELEC-2.9.11	Supply and Fixing of Amps Copper Flexibles for three phases and neutral for Air Insulated / sandwich Busduct . Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant		
	a	400A	1 No	23300
	b	630A	1 No	24700
	c	800A	1 No	26900
	d	1000A	1 No	28300
	e	1250 A	1 No	30000
	f	1600 A	1 No	32300
	g	2000 A	1 No	35200
	h	2500 A	1 No	40000
	i	3200 A	1 No	42800
	j	4000 A	1 No	45700
69	ELEC-2.9.12	Supply and fixing of Flange end for .....Amps for Air insulated Busdusts . Makes: Legrand (Zucchini) / Schiender /C&S/Advance-Anant		
	a	400A	1 No	9000
	b	630A	1 No	12300
	c	800A	1 No	15200
70	ELEC-2.9.13	Supply and fixing of Flange end for .....Amps for Sandwich Busdusts . Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant		
	a	400A	1 No	10900
	b	630A	1 No	15600
	c	800A	1 No	18100
	d	1000 A	1 No	19100
	e	1250 A	1 No	13200
	f	1600 A	1 No	14900
	g	2000 A	1 No	23200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	h	2500 A	1 No	39300
	i	3200 A	1 No	43000
	j	4000 A	1 No	45200
71	ELEC-2.9.14	Supply and Fixing of .....Amps Tap off box for Sandwich Busduct. Makes: Legrand (Zucchini) / L&T / Schiender /C&S/Advance-Anant		
	a	160A	1 No	15000
	b	250A	1 No	25200
	c	400A	1 No	31900
	d	630A	1 No	46300
	e	800A	1 No	69500
	2.1	MCBs (AS PER IS:60898-1:2002)		
72	ELEC-2.10.1	Supply of ,..... 10KA C/D Curve ISI Mark. Makes: Legrand-DX3 / Schneider-Acti9/Hager-h3/ Siemens-5SX4/ Havells STADx /L&T-AU/Indo Asian-Opti pro/ HPL (Techno)		
	a	6-32A SP MCB	1 No	190
	b	40-63A SP MCB	1 No	400
	c	6-32A DP MCB	1 No	575
	d	40-63A DP MCB	1 No	915
	e	6-32A TP MCB	1 No	915
	f	40-63A TP MCB	1 No	1470
	g	6-32A FP MCB	1 No	1260
	h	40-63A FP MCB	1 No	1835
73	ELEC-2.10.2	Supply of ,..... 10KA C/D Curve ISI Mark. Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab		
	a	6-32A SP MCB	1 No	160
	b	40-63A SP MCB	1 No	345
	c	6-32A DP MCB	1 No	485
	d	40-63A DP MCB	1 No	700
	e	6-32A TP MCB	1 No	755
	f	40-63A TP MCB	1 No	1140

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	6-32A FP MCB	1 No	1030
	h	40-63A FP MCB	1 No	1430
74	ELEC-2.10.3	Supply of 6-32A 10KA SP MCB, C/D Curve ISI Mark. Makes:Milltec/ Sputnik / Benlo / Vimal /Precision/Amron/Million.		
	a	6-32A SP MCB	1 No	130
	b	40-63A SP MCB	1 No	220
	c	6-32A DP MCB	1 No	340
	d	40-63A DP MCB	1 No	500
	e	6-32A TP MCB	1 No	610
	f	40-63A TP MCB	1 No	950
	g	6-32A FP MCB	1 No	800
	h	40-63A FP MCB	1 No	1020
	2.11	ISOLATORS CONFIRMS TO I E C 60947 PART-III		
75	ELEC-2.11.1	Supply of Isolator. Makes: Legrand-DX3 / Schneider-Acti9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)		
	a	32A DP	1 No	325
	b	40A DP	1 No	360
	c	63A DP	1 No	475
	d	40A TP	1 No	610
	e	63A TP	1 No	720
	f	40A FP	1 No	800
	g	63A FP	1 No	900
	h	100A FP	1 No	950
76	ELEC-2.11.2	Supply of Isolator. Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab		
	a	32A DP	1 No	315
	b	40A DP	1 No	330
	c	63A DP	1 No	400
	d	40A TP	1 No	570
	e	63A TP	1 No	580

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	40A FP	1 No	660
	g	63A FP	1 No	710
	h	100A FP	1 No	875
77	ELEC-2.11.3	Supply of..... Isolator. Makes: Milltec / Sputnik / Benlo / Vimal/ Precision/Amron/Million.		
	a	32A DP	1 No	210
	b	40A DP	1 No	250
	c	63A DP	1 No	340
	d	40A TP	1 No	365
	e	63A TP	1 No	420
	f	40A FP	1 No	565
	2.12	RCCBs(ELCB/RCD) CONFIRMS TO IEC:61008 AND IS:12640-1		
78	ELEC-2.12.1	Supply of RCCB for earth leakage protection. Makes: Legrand-DX3 / Schneider-Acti9/Hager-h3/ Siemens-5SX4/ Havells STADx/L&T-AU/Indo Asian-Opti pro/HPL(Techno)		
	a	40A 2 Pole,30mA	1 No	2670
	b	40A 2 Pole,100mA	1 No	2830
	c	40A 4 Pole30mA	1 No	2940
	d	40A 4 Pole ,100mA	1 No	3050
	e	63A 2 Pole,30mA,	1 No	3300
	f	63A 2 Pole,100mA	1 No	3250
	g	63A 4 Pole,30mA	1 No	3400
	h	63A 4 Pole,100mA	1 No	3780
79	ELEC-2.12.2	Supply of RCCB for earth leakage protection. Makes: ABB- S200/Standard / Havells-euro II / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab		
	a	40A 2 Pole,30mA	1 No	2250
	b	40A 2 Pole,100mA	1 No	2300
	c	40A 4 Pole30mA	1 No	2500
	d	40A 4 Pole ,100mA	1 No	2600
	e	63A 2 Pole,30mA,	1 No	2810

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	63A 2 Pole,100mA	1 No	2880
	g	63A 4 Pole,30mA	1 No	2990
	h	63A 4 Pole,100mA	1 No	3000
		RCBO CONFIRMS TO IEC:61009-1		
80	ELEC-2.12.3	Supply of .....RCBO for over load, short-circuit and earth leakage protection. Makes: ABB- S200/Standard / Havells-euro II / HPL (Techno) / C&S /L&T-Exora/ GM /Gold Medal/ Anchor/Salzer /Polycab		
	a	40A 2 Pole,30mA	1 No	4550
	b	40A 2 Pole,100mA	1 No	4970
	c	40A 4 Pole30mA	1 No	5170
	d	40A 4 Pole ,100mA	1 No	5470
	e	63A 2 Pole,30mA,	1 No	5440
	f	63A 2 Pole,100mA	1 No	5760
	g	63A 4 Pole,30mA	1 No	6100
	h	63A 4 Pole,100mA	1 No	6220
		Supply of MCB type Changeover switch 20A Double Pole 2 Way 400V AC suitable to fix on Din Channel		1800
	2.13	MCB DISTRIBUTION BOARDS (AS PER IS 8623; IS 13032; IEC 61439-3)		
		SPN DBs		
81	ELEC-2.13.1	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	4 Way SPN DB with IP 30 , 4Nos	1 No	875
	b	8 Way SPN DB with IP 30, Nos	8	1 No 950
	c	12 Way SPN DB with IP 30, Nos	12	1 No 1150
	d	4 Way SPN DB with IP 43, Nos	4	1 No 1200
	e	8 Way SPN DB with IP 43, Nos	8	1 No 1300
	f	12 Way SPN DB with IP 43, Nos	12	1 No 1575

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Nos		
82	ELEC-2.13.2	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab		
	a	4 Way SPN DB with IP 30 , 4Nos	1 No	750
	b	8 Way SPN DB with IP 30, Nos	8	1 No 800
	c	12 Way SPN DB with IP 30, Nos	12	1 No 1000
	d	4 Way SPN DB with IP 43, Nos	4	1 No 1050
	e	8 Way SPN DB with IP 43, Nos	8	1 No 1150
	f	12 Way SPN DB with IP 43, Nos	12	1 No 1350
83	ELEC-2.13.3	Supply of .....Protection suitable for S.P out goings and for 1 No Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes:Milltec / Sputnik / Benlo / Vimal/Precision/ Amron/Million.		
	a	4 Way SPN DB with IP 30 , 4Nos	1 No	650
	b	8 Way SPN DB with IP 30, Nos	8	1 No 700
	c	12 Way SPN DB with IP 30, Nos	12	1 No 875
	d	4 Way SPN DB with IP 43, Nos	4	1 No 940
	e	8 Way SPN DB with IP 43, Nos	8	1 No 1000
	f	12 Way SPN DB with IP 43, Nos	12	1 No 1200
		TPN DBs		
84	ELEC-2.13.4	Supply of Protection suitable for .....S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	1700
	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2400

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2700
	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	3800
	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	4300
85	ELEC-2.13.5	Supply of Protection suitable for .....S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab		
	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	1550
	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	2150
	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	2400
	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	3300
	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	3800
86	ELEC-2.13.6	Supply of Protection suitable for S.P. out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: Milltec /Benlo / Vimal /Precision/Amron/Million.		
	a	(8 +12) 4 Way TPN DB Horizontal with IP 30, 12 Nos	1 No	1400
	b	(8 +18) 6 Way TPN DB Horizontal with IP 30, 18 Nos	1 No	1900
	c	(8 +12) 4 Way TPN DB Horizontal with IP 43, 12 Nos	1 No	1850
	d	(8 +18) 6 Way TPN DB Horizontal with IP 43, 18 Nos	1 No	2400
	e	(8 +24) 8 Way TPN DB Horizontal with IP 43, 24 Nos	1 No	2800
		VTPN DBs		
87	ELEC-2.13.7	Supply of Protection suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno)		
	a	4 Way VTPN DB with IP 43	1 No	6930
	b	6 Way VTPN DB with IP 43	1 No	8030
	c	8 Way VTPN DB with IP 43	1 No	8910

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
88	ELEC-2.13.8	Supply of 7 Segment DB with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and .....Nos SPMCB's as out going as per IS 8623; IS 13032; IEC 61439-3. . Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	4 Way TPN DB, 12 Nos	1 No	7150
	b	8 Way TPN DB, 24 Nos	1 No	8150
89	ELEC-2.13.9	Supply of .....suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and TP/SP MCBs as outgoing etc., as per IS 8623; IS 13032; IEC 61439-3. Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	4 Way VTPN DB with IP 43 Protection.	1 No	9020
	b	8 Way VTPN DB with IP 43 Protection.	1 No	11330
90	ELEC-2.13.10	Supply of Protection suitable for TP/SP out goings and for 1 No 4 pole Incommer etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer		
	a	4 Way VTPN DB with IP 43	1 No	6100
	b	6 Way VTPN DB with IP 43	1 No	6500
	c	8 Way VTPN DB with IP 43	1 No	7600
91	ELEC-2.13.11	Supply of 7 Segment with IP 42 Protection with provision for FPMCB / Isolator / RCCB / RCBO as incomer, 3Nos DPMCB / Isolator / RCCB / RCBO as sub incomer and .....Nos SPMCB's as out going. etc.,as per IS 8623; IS 13032; IEC 61439-3. Makes: Siemens / ABB / Standard / Havells /Hager/ C&S/L&T/Anchor		
	a	4 Way TPN DB,12 Nos	1 No	6400
	b	8 Way TPN DB,24 Nos	1 No	7300
92	ELEC-2.13.12	Supply of .....suitable for accomodating 125A / 160A 4 Pole MCCB as incomer and TP/SP MCBs as outgoing etc., as per IS 8623; IS 13032; IEC 61439-3. Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer		
	a	4 Way VTPN DB with IP 43 Protection.	1 No	7300
	b	8 Way VTPN DB with IP 43 Protection.	1 No	9200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
93	ELEC-2.13.13	Supply of Plug and Socket in SS enclosure. Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Crabtree Xpro classique-II/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	20A SP	1 No	985
	b	20A TP	1 No	1865
	c	32A TP	1 No	2200
94	ELEC-2.13.14	Supply of Plug and Socket in SS enclosures per IS 8623; IS 13032; IEC 61439-3. . Makes: ABB/Standard / Havells-euro II / C&S / L&T/GM /Gold Medal/Anchor/Salzer/Polycab		
	a	20A SP	1 No	700
	b	20A TP	1 No	1250
	c	32A TP	1 No	1650
95	ELEC-2.13.15	Supply of 20A SP Plug and Socket in SS enclosure etc., as per IS 8623; IS 13032; IEC 61439-3. . Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.		
	a	20A SP	1 No	525
	b	20A TP	1 No	1000
	c	32A TP	1 No	1400
96	ELEC-2.13.16	Supply of Enclosure with IP 20 Protection etc., complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: Legrand(Ekinox 3) / Schneider-Acti9/Hager -Novello+/ Seimens/Havells STADx/L&T-Newrange/Indo Asian-Opti Pro/ HPL (Techno).		
	a	SP	1 No	300
	b	DP/TP/FP	1 No	400
97	ELEC-2.13.17	Supply of Enclosure with IP 20 Protection etc complete as per IS 8623; IS 13032; IEC 61439-3. . Makes: Siemens / ABB / Standard / Havells / Hager/ C&S /L&T/ GM /Anchor/Gold Medal /Polycab		
	a	SP	1 No	230
	b	DP/TP/FP	1 No	330
98	ELEC-2.13.18	Supply of Enclosure with IP 20 Protection. Makes: Milltec / Sputnik / Benlo / Vimal/Amron/Million.		
	a	SP	1 No	210
	b	DP/TP/FP	1 No	310
		SECTION - 3		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	3.1	STREET LIGHT LUMINAIRES		
99	ELEC-3.1.1	Supply of fluorescent street light luminaire with sheet alluminium housing and UV stabilised acrylic cover with Electronic ballast and all standard accessories etc. Makes: Phillips / Crompton / Bajaj / HPL/Surya		
		1 x 36/40 W	1 No	1150
100	ELEC-3.1.2	Supply of fluorescent street light luminaire with sheet alluminium housing and UV stabilised acrylic cover with Electronic ballast and all standard accessories etc. Makes: Style lamp / Mahita Electro / Capart / RK / Prolite/Kiran		
		1 x 36/40 W	1 No	800
101	ELEC-3.1.3	Supply of Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc. Makes: Phillips / Crompton / Bajaj / Surya / Venture / Halonix		
	a	70W SV / MH	1 No	2600
	b	150W SV / MH	1 No	3800
	c	250W SV / MH	1 No	4200
102	ELEC-3.1.4	Supply of .....Street light luminaire integral with pressure diecast alluminium housing having pot optics with IP66 protection with all standard accessories etc. Makes: Style lamp / Mahita Electro / Capart / RK / Prolite/Kiran		
	a	70W SV / MH	1 No	2200
	b	150W SV / MH	1 No	3200
	c	250W SV / MH	1 No	3700
103	ELEC-3.1.5	Supply of 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		
	a	1 x 400W MH	1 No	5400
104	ELEC-3.1.6	Supply of 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 / RK / Prolite/Kiran		
	a	1 x 400W MH	1 No	4500
105	ELEC-3.1.7	Supply of Hallozen Flood light luminaire with cast alluminium housing and tough end glass cover with all standard accessories. Makes: Bajaj / Crompton / Surya / Capart / RK / Prolite		
	a	500W	1 No	450
	b	1000W	1 No	850

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	3.2	LED POST TOP LANTERN LUMINAIRES		
107	ELEC-3.2.1	Supply and Transportation of 40W LED Post top lantern made with cast Alluminium with decorative opel polycarbonate diffuser with IP 65 protection etc., complete with all accessories Makes: Crompton LPTO-40-CDL-M/ Bajaj Celesta BGCL 40 W LED Wh/Wipro LP 02 or equivalent in Phillips/Keselec/Havells Endura Spring	1 No	8500
108	ELEC-3.2.2	Supply and Transportation of 25 W Post Top lantern made with high Pressure die cast alluminium bodywith polycarbonate / high impact Poly carbonate protector for optimal luminous flux ,IP66 suitable for vertical mounting of 76 mm dia.the luminaire shall have CCT 3000-4000K with internal surge protection of 4KV and External Surge Protection of 10 KV ,Pf>0.95 etc., complete Make: Keselec MIRI or equivalent in Philips/Wipro	1 No	19000
109	ELEC-3.2.3	Supply and Transportation of 35/40 W Post Top lantern made with high Pressure die cast alluminium bodywith polycarbonate / high impact PMMA protector for optimal luminous flux ,IP66 suitable for vertical mounting of 76 mm dia.the luminaire shall have CCT 3000-4000K with internal surge protection of 4KV and External Surge Protection of 10 KV ,Pf>0.95 etc., complete Make: Keselec CAMBRIDGE/ or equivalent in Philips/Wipro	1 No	23500
	3.3	ACCESSORIES FOR MV / SV / MH LUMINAIRES		
		COPPER BALLASTS		
110	ELEC-3.3.1	Supply of copper ballast. Makes: Phillips / Bajaj / Crompton / Havells / Surya / Venture / Halonix/HPL		
	a	70 W SV / MH	1 No	600
	b	150 W SV / MH	1 No	850
	c	250 W SV / MH	1 No	1300
	d	400 W SV / MH	1 No	1900

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
111	ELEC-3.3.2	Supply of 70 W SV / MH copper ballast. Makes:Style lamp/ Mahita Electro / Capart / RK / Prolite		
	a	70 W SV / MH	1 No	475
	b	150 W SV / MH	1 No	690
	c	250 W SV / MH	1 No	1000
	d	400 W SV / MH	1 No	1300
		IGNITOR		
112	ELEC-3.3.3	Supply of Ignitor for SV / MH Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Surya / HPL / Havells / Venture / Capart	1 No	150
		HPF CAPACITORS		
113	ELEC-3.3.4	Supply of HPF Capacitor. Makes: TIBCON / Phillips / Crompton / Bajaj / Surya / Havells.		
	a	4 mfd	1 No	90
	b	10 mfd	1 No	150
	c	15 mfd	1 No	175
	d	20 mfd	1 No	240
	e	33 mfd	1 No	350
	f	42 mfd	1 No	400
	3.4	LAMPS		
114	ELEC-3.4.1	Supply of Lamp with ISI mark. Makes: Phillips / Osram / Crompton / Bajaj / Surya / Venture / Halonix/HPL.		
	a	500W Hallozen	1 No	90
	b	1000W Hallozen	1 No	110
	c	70W SV	1 No	400
	d	150W SV	1 No	600
	e	250W SV	1 No	675
	f	70W MH	1 No	750
	g	150W MH	1 No	800
	h	250W MH	1 No	1100
	i	400W MH	1 No	1300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
115	ELEC-3.4.2	Supply of Lamp with ISI mark. Makes: Style Lamp / Mahita Electro / Capart		
	a	500W Hallozen	1 No	60
	b	1000W Hallozen	1 No	90
	c	70W SV	1 No	320
	d	150W SV	1 No	575
	e	250W SV	1 No	625
	f	70W MH	1 No	725
	g	150W MH	1 No	775
	h	250W MH	1 No	990
	i	400W MH	1 No	1150
	3.5	AUTOMATIC STREET LIGHT CONTROL SYSTEMS		
116	ELEC-3.5.1	Supply of Automatic Street Light Control System with Optical Micro 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 of single phase load with necessary clamping arrangements. Make: Swadep Nature Switch / Lightmate/ GL/Bajaj		
	a	1 KW	1 No	9000
	b	3 KW	1 No	11300
	c	5 KW	1 No	11800
	d	8 KW	1 No	13500
117	ELEC-3.5.2	Supply of Automatic Street Light Control System with Optical Micro 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 of Three phase load with necessary clamping arrangements. Make: Swadep Nature Switch / Light Mate /GL/Bajaj		
	a	5 KW	1 No	14800
	b	8 KW	1 No	15300
	c	12 KW	1 No	18500
	d	25KW	1 No	29400
	e	50KW	1 No	42000
	3.6	INTERNAL LUMINAIRES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
118	ELEC-3.6.1	Supply of 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/Havells/HPL/Halonix		
	a	1 x 36/40W	1 No	720
	b	2 x 36/40W	1 No	1000
119	ELEC-3.6.2	Supply of Box type tube light luminaire powder coated CRCA sheet steel housing with Electronic Ballast Chokes and all standard accessories. Makes: Surya / Havells / Fortune Art/Kiran	1 No	
	a	1 x 36/40W	1 No	650
	b	2 x 36/40W	1 No	950
120	ELEC-3.6.3	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 /Halonix/ Surya / RK / Million / Gold Medal	1 No	225
		ACCESSORIES		
121	ELEC-3.6.4	Supply of 9/13W VPIT Ballast for CFL with ISI mark. Makes: Crompton / Bajaj / Halonix/Surya / RK / Style Lamp/HPL	1 No	105
122	ELEC-3.6.5	Supply of 18W VPIT Ballast for CFL with ISI mark. Makes: Crompton / Bajaj /Halonix/ Surya / RK / Style Lamp /HPL	1 No	110
123	ELEC-3.6.6	Supply of 20W Copper Wound Ballast Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal/HPL	1 No	110
124	ELEC-3.6.7	Supply of 40W Copper Wound Ballast. Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal/HPL	1 No	135
125	ELEC-3.6.8	Supply of 36/40W VPIT Ballast. Makes: Crompton / Bajaj /Halonix/ Surya / RK / Style Lamp / Million / Gold Medal	1 No	150
126	ELEC-3.6.9	Supply of 40W Starter. Makes: Crompton / Bajaj / Halonix/ Surya / RK / Style Lamp / Million / Gold Medal	1 No	8

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
127	ELEC-3.6.10	Supply of Rotor holder(FTL). Makes: Phillips / Crompton / Bajaj / Halonix/ Surya	1 No	15
128	ELEC-3.6.11	Supply of FTL Starter holder. Makes: Phillips / Crompton / Bajaj /Halonix/ Surya	1 No	15
	3.7	FLOURSCENT TUBES / CFL LAMPS / LED BULBS		
129	ELEC-3.7.1	Supply of 40W-60W Lamp. Makes: Phillips / Crompton / Bajaj / Surya / Havells / Style Lamp / Capart	1 No	12
130	ELEC-3.7.2	Supply of 18/20W fluorescent tube. Makes: Phillips / Crompton / Bajaj / Surya / Style Lamp / Capart	1 No	40
131	ELEC-3.7.3	Supply of 36/40W fluorescent tube. Makes: Phillips / Crompton / Bajaj / Surya / Style Lamp / Capart	1 No	40
132	ELEC-3.7.4	Supply of Pin type CFL Lamp. Makes: Wipro / G.E. / Phillips / Crompton / Bajaj / Havells / Surya / HPL / Halonix.		
	a	9W	1 No	60
	b	11W	1 No	70
	c	13W	1 No	90
	d	18W	1 No	95
	e	36W	1 No	125
		LED BULBS		
133	ELEC-3.7.5	Supply of Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, . Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Art / GoldMedal / Luker/Leo/Orbit /Rhino / GLO LED		
	a	0.5W LED	1 No	50
	b	3.0W LED	1 No	110
	c	5.0W LED	1 No	120
	d	7.0W LED	1 No	140
135	ELEC-3.7.6	Supply of 3W to 5W 3000K, AC 160-260V, LED Candel Lamp for shandliers. Makes: Phillips /Crompton / Bajaj / Havells / Halonix/GM/HPLSyska / Green Lites / Fortune Art / GoldMedal / Luker/Leo/Orbit/Rhino /GLO LED	1 No	200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	3.8	LED LUMINAIRES INDOOR		
		DOWN LIGHTERS		
137	ELEC-3.8.1	Supply and fixing of..... heavy duty LED Down lighter, suitable for Recessed mounting made of pressure diecast aluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 100 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.		
	a	6W	1 No	750
	b	9W	1 No	950
	c	12W	1 No	1375
	d	15W	1 No	1475
	e	18W	1 No	1575
138	ELEC-3.8.2	Supply and fixing of heavy duty LED Down lighter, suitable for Recessed / Surface mounting made of pressure diecast aluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10% with high power LED's having efficacy of > 90 lumens / watt, CCT: 3000K - 5700K, minimum CRI > 70, Luminaire performance complies to IS 10322 (Part 5 / Sec-3) etc., complete Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opplle/R LED/Luker/ Orbit/Trinic /Panasonic /Rhino/ GLO LED /Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT		
	a	6W	1 No	700
	b	9W	1 No	890
	c	12W	1 No	1290
	d	15W	1 No	1385
	e	18W	1 No	1480

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
139	ELEC-3.8.3	Supply and fixing of..... heavy duty LED Down lighter, suitable for Recessed / Surface mounting made of pressure diecast aluminium body with powder coating, acrylic diffuser with Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , 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 > 80 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 / Siger/ Konzept/ Kiran/Vibrant/Leo/Lumens/llite b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT	1 No	
	a	6W	1 No	610
	b	9W	1 No	785
	c	12W	1 No	1110
	d	15W	1 No	1195
	e	18W	1 No	1285
		LED PANEL LIGHTS		
140	ELEC-3.8.4	Supply 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 as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 100 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.	1 No	
	a	3W	1 No	290
	b	6W	1 No	500
	c	12W	1 No	830

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	d	15W	1 No	1050
	e	18W	1 No	1150
	f	24W	1 No	1450
	g	36W/40W (600mm x 600mm) square type	1 No	3550
141	ELEC-3.8.5	Supply 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 as per IS: 15885 (Part 2/ Sec 13) : 2012 , operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 90 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/Trinic/Lumens/Panasonic /Rhino/ GLO LED/ Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT		
	a	3W	1 No	280
	b	6W	1 No	490
	c	12W	1 No	800
	d	15W	1 No	1025
	e	18W	1 No	1100
	f	24W	1 No	1350
	g	36W/40W (600mm x 600mm) square type	1 No	3450
142	ELEC-3.8.6	Supply 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 as per IS: 15885 (Part 2/ Sec 13) : 2012 , 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 > 80 lumens/watt, CCT: 3000K - 5700K, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Konzept/ Kiran/Vibrant/Leo/llite b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT/ San'an		
	a	3W	1 No	265
	b	6W	1 No	460
	c	12W	1 No	750
	d	15W	1 No	1000
	e	18W	1 No	1035
	f	24W	1 No	1300
		COB DOWN LIGHTS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
143	ELEC-3.8.7	Supply and fixing of..... LED COB Down lighter, suitable for Recessed mounting made of pressure diecast aluminium housing with powder coating, with high efficiency 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-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal /Eveready/ FortuneArrt b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung		
	a	9 / 10 W	1 No	1350
	b	15 / 16 W	1 No	1750
	c	18 / 20 W	1 No	1950
	d	30 W	1 No	3100
	f	45 W	1 No	3400
144	ELEC-3.8.8	Supply and fixing of LED COB Down lighter, suitable for Recessed mounting made of pressurediecast aluminium housing with powder coating, with high efficiency 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 /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/Luker/ Orbit/ Trinic/Panasonic/Lumens/Panasonic /Rhino /GLO LED /Vimal b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo/Samsung		
	a	9 / 10 W	1 No	1300
	b	15/ 16W	1 No	1650
	c	18 / 20W	1 No	1850
	d	30W	1 No	3000
		SPOT LIGHTS / WALL WASHERS		
145	ELEC-3.8.9	Supply and Transportation 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-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar/ Sunpo		
	a	2/3 W	1 No	450
	b	5/6 W	1 No	550
	c	7 W	1 No	1050

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
146	ELEC-3.8.10	Supply 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 Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/R LED/Luker/ Orbit/Trinic/Panasonic b) LED MAKE : Bridge Lux / LUMILEDS / CREE / NICHIA / SAMSUNG/ Sunpo		
	a	2/3 W	1 No	400
	b	5/6 W	1 No	500
	c	7 W	1 No	1000
147	ELEC-3.8.11	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP65, made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000-4000K , beam angle 25/45 degrees, minimum CRI>70, .etc., complete a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/ GreenLites/HPL /Eveready/ FortuneArrt b) LED MAKE :Bridge Lux / LUMILEDS / CREE / NICHIA / Epistar.		
	a	18W	1 No	4100
	b	24W	1 No	4800
148	ELEC-3.8.12	Supply and fixing of..... LED single colour Wall washer, 1000mm length, IP67, made of diecast aluminium body with powder coating, with Driver, operating voltage range of 150 to 265 Volts AC, CCT: 3000-4000K , beam angle 15/25/45/60 degrees, minimum CRI>70, .etc., complete Makes : Surya / Polycab/ Oppl/Luker/ Orbit b) LED MAKE : Bridge Lux/ CREE / NICHIA / Epistar		
	a	18W	1 No	3800
	b	24W	1 No	4650
		LED BATTENS AND 2' x 2' LUMINARIES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
149	ELEC-3.8.13	Supply and fixing of 18W/20W, 1200mm length LED batten light with extruded aluminium housing and polycarbonate cover, 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. a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.	1 No	800
150	ELEC-3.8.14	Supply and fixing of 18W/20W, 1200mm length LED batten light with extruded aluminium housing and polycarbonate cover, 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 /C&S/ Fortune Art / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/ Luker/ Orbit/ Trinic/Lumens/Panasonic/ Rhino/ GLO LED / Vimal b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT	1 No	720
151	ELEC-3.8.15	Supply and fixing of 18W/20W, 1200mm length LED batten light with extruded aluminium housing and polycarbonate cover, 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. a) LUMINAIRE MAKE : Pasolite / Cosmo / Siger/ Konzept/ Kiran/Vibrant/Leo/ilite b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT	1 No	600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
152	ELEC-3.8.16	Supply and fixing of 20W,2000 lumens T8,1200mm length LED retrofit tube light with aluminium anodised body, 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 a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	710
153	ELEC-3.8.17	Supply and fixing of 20W,1900 lumens T8,1200mm length LED retrofit tube light with aluminium anodised body, 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 /C&S/ Fortune Art / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Oppl/ Luker/ Orbit/ Trinic/Lumens/ilite/Panasonic /Rhino/ GLO LED/ Vimal b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT	1 No	650
154	ELEC-3.8.18	Supply of 1200 mm length,Box type powder coated tube light luminaire with necessary wiring suitable for fixing 2 Nos retrofit T8 LED tubes but without tube and choke Makes: Phillips / Crompton / Bajaj/Surya/Havells/HPL	1 No	290
155	ELEC-3.8.19	Supply of 1200 mm length,Box type powder coated tube light luminaire with necessary wiring suitable for fixing 1 No retrofit T8 LED tube but without tube and choke Makes: Greenlites / Fortune Art / Capart / GM / Goldmedal /Trinic/Kiran.	1 No	250

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
156	ELEC-3.8.20	Supply, transportation and fixing of Recessed / Surface mounting 2' x 2' (600x600 mm) LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 , With System lumen output \geq 3200lm operating voltage range of 150 to 265 Volts AC, P.F > 0.9, Surge protection: 2KV, THD<10%, with high power LED's having efficacy of > 100 lumens / watt, CCT: 3000K - 5700K, minimum CRI>70, .etc.,, complete. a) LUMINAIRE MAKE : Phillips / GE-Venture / Crompton / Wipro / Bajaj / Havells / Halonix/Jaquar/HPL/GM / GreenLites / Gold Medal/Eveready/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Everlight.		
	a	36 W	1 No	3500
	b	45 W	1 No	3900
157	ELEC-3.8.21	Supply, transportation and fixing of Recessed / Surface mounting 2' x 2' (600x600 mm)LED luminaire made of CRCA sheet housing with powder coated with acrylic diffuser, Constant current out put of Driver as per IS: 15885 (Part 2/ Sec 13) : 2012 operating voltage range of 150 to 265 Volts AC, Power factor > 0.9 high power LEDs having efficacy of > 90 lumens/watt, junction temperature less than 85 degrees centigrade and THD is less than 10% etc., complete Makes : Surya /C&S / Syska / Enrich / Stanjo / Polycab/ Ib LED/ Opple/ Luker/ Orbit/Panasonic/Trinic/ilite/Panasonic /Rhino /GLO LED/ Vimal b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / EVERLIGHT.		
	a	36 W	1 No	3300
	b	45 W	1 No	3700
	ELEC-3.8.22	Supply of 10W LED Bulk head fitting with Pressure die cast alluminum with opal diffuser with IP 65 Protection etc., complete., Makes : Philips/Bajaj / Crompton / Surya / Havells / Greenlites/ Insta Power/HPL /Halonix/ Panasonic. / FortuneArrt	1 No	1100
		LED STREET LIGHTS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
158	ELEC-3.8.23	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 System efficacy > 100 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution, THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete a) LUMINAIRE MAKE : Wipro(Skyline) / Philips (Green line) / GE-Venture / Crompton(Neo Series) / Bajaj (Edge) / Halonix(Lumos - Super) / Havells (Endura Series) / Capart(Premium)/Greenlites(Hi-Lux) / Polycab/Keselec/ HPL(City Vision)/ Jaquar(Premium)/Eveready/ Surya (Pollux) / FortuneArrt (Leaf) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG		
	a	20W	1 No	1980
	b	30W	1 No	3100
	c	45W	1 No	4700
	d	60W	1 No	5900

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
159	ELEC-3.8.24	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 System efficacy >110 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution , THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete . a) Luminaire Make : Wipro(Skyline) / Philips (Greenline Extra) / GE-Venture / Crompton(Nexus / Hawk series) / Bajaj (Edge) / Halonix (Modular/ Lumos-Super) / Havells (Endura Series)/Greenlites(HI-Lux) /Capart(Premium)/Polycab/Keselec / HPL(City Vision)/Jaquar (Premium) /Eveready /Surya (Pollux) / Fortune Artt (Leaf) b) LED MAKE :PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG.		
	a	90W	1 No	9200
	b	120W	1 No	11900
	c	150W	1 No	13750
	d	180W	1 No	15500
	e	210W	1 No	20000
160	ELEC-3.8.25	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 System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP65, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with optics distribution , THD<10% at 110 Volts AC, driver efficiency >90%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete, a) LUMINAIRE Makes: Syska / GM / C&S/ VIN/Gold Medal /Pharox / Cosmo / Enrich/Pro-lite(I) / Renesola / Stanjo / Goldwyn/ Ib LED/ Orbit/ Luker/Trinic/Rhino / GLO LED/ Vimal		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.		
	a	20W	1 No	1850
	b	30W	1 No	2880
	c	45W	1 No	4500
	d	60W	1 No	5600
	e	90W	1 No	8700
	f	120W	1 No	10500
	g	150W	1 No	12600
	h	180W	1 No	14400
	i	210W	1 No	17550
161	ELEC-3.8.26	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 System efficacy >90 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection ≥ 10KV 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 : Trinic / Pasolite / Sieger/Koncept/Vibrant/Leo/Lumens/Ilite b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG.		
	a	20W	1 No	1755
	b	30W	1 No	2550
	c	45W	1 No	4200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	d	60W	1 No	5200
	e	90W	1 No	8100
	f	120W	1 No	9500
		FLOOD LIGHTS		
162	ELEC-3.8.27	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 System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 10KV 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 : Wipro / Philips/ GE-Venture / Crompton/ Bajaj /Greenlites / Havells/Capart(Premium) /Halonix/ Polycab /Keselec/HPL/Jaquar/Eveready / Surya (Lumasmax / O Flood) / FortuneArrt(Fin) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.		
	a	50/60W	1 No	5850
	b	90/100W	1 No	10350
	c	120W	1 No	13410
	d	150W	1 No	15750
	e	200W	1 No	18900
	f	250W	1 No	22050
	g	300 W	1 No	26100
	h	400W	1 No	30150
163	ELEC-3.8.28	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 System efficacy >100lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 10KV 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: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/ Orbit/Luker/Trinic/Pro-lite/Ilite/Rhino /GLO LED /Vimal b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG / LG		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	50/60W	1 No	5220
	b	90/100W	1 No	9450
	c	120W	1 No	12150
	d	150W	1 No	14400
	e	200W	1 No	17100
		HIGH BAY LIGHTS		
164	ELEC-3.8.29	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 >100 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP66, IK05, Driver surge protection 4KV, In house additional 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 : Wipro / Philips/ GE-Venture / Crompton/ Bajaj /Greenlites / Havells/Capart(Premium) /Halonix/Polycab/Keselec/HPL/Jaquar/Eveready / Surya (ORION-II)/ FortuneArrt(UFO-S) b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG .		
	a	60W	1 No	8500
	b	90W	1 No	11000
	c	120W	1 No	12500
	d	150W	1 No	14500
165	ELEC-3.8.30	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 >100 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, IK05, Driver surge protection 4KV, In house additional 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: Pharox / GM / Goldmedal / Syska / C&S/Cosmo/ Ib LED/ Vibrant/ Stanjo/Enrich/Orbit/Luker/Trinic/llite/Rhino/ GLO LED b) LED MAKE : CREE / NICHIA / OSRAM / SAMSUNG.		
	a	60W	1 No	8000
	b	90W	1 No	9800

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	120W	1 No	11500
	d	150W	1 No	13500
	ELEC-3.8.31	Supply and transportation of LED Linear Wall washer of Size mm with high power LED's made of pressure diecast alluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, leads to 24 V DC out put Voltage Drives with beam angle of 15/25/45/60 , P.F > 0.90, having efficacy >100 lumens/watt, System efficacy >95lm/W and junction temprature < 70°C, with Ingres protection IP66, IK05, with multi colour(Red or Yellow or Green or blue or White) etc., complete UMINAIRE MAKE : Wipro / Philips/ GE / Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Seoul .		
	a	18 W , 1000 X 38 X 58 mm	1 No	9400
	b	24 W , 1000 X 38 X 58 mm	1 No	9900
	c	36 W , 1000 X 38 X 86 mm	1 No	11500
	d	48 W , 1000 X 60 X 100 mm	1 No	13900
		RGB/RGBW LED Lighting		
	ELEC-3.8.32	Supply and transportation of IP 66 RGBW LED Flood light Luminaries made of pressure die cast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, leads to 24 V DC output Voltage drives RGB LED's with light angle 60°, surge protection 6KV and junction temperature < 70°C, CRI>70,P.F>0.9,suitable for RGB DMX 512 controller etc., complete e UMINAIRE MAKE : Wipro / Philips/ Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG/Seoul .		
	a	90W	1 No	25500
	b	120W	1 No	29000
	ELEC-3.8.33	Supply and transportation of RGB LED Linear Wall washer of Size mm with high power LED's made of pressure diecast alluminium housing with powder coated, Supply Input voltage 120 - 270 V AC, leads to 24 V DC out put Voltage Drives with beam angle of 15/25/45/60 , P.F > 0.90, having efficacy >100 lumens/watt, System efficacy >95lm/W and junction temprature < 70°C, with Ingres protection IP66, IK05,suitable for RGB DMX 512 controller etc., a) LUMINAIRE MAKE : Wipro / Philips/ GE / Crompton/ Bajaj / Greenlites/ Havells/ FortuneArrt b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG /SEOUL.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	18 W , 1000 X 38 X 58 mm	1 No	11200
	b	24 W , 1000 X 38 X 58 mm	1 No	11800
	c	36 W , 1000 X 38 X 58 mm	1 No	13200
	d	48 W , 1000 X 60 X 100 mm	1 No	16700
	ELEC-3.8.34	Supply,transportation and installation of stand alone USB -DMX controller to control a wide variety of different DMX systems from RGB/RGbW ,including 1024 DMX channels,Input power 5-5.5 V DC 0.6 A with programmability on PC ,MAC,tablet,smart phone with micro SD card etc complete Make: Sunlite Suit2/Artnet or its equivalent	1 No	78000
	ELEC-3.8.35	Supply,Transportation and Installation of DMX splitter/booster in the existing junction box with necessary connections. Makes:colourdreamer/ AURA/Greenlites	1 No	16000
	ELEC-3.8.36	Supply,Transportation and Installation of DMX-DC-5A,Decoder in the existing junction box with necessary connections. Makes:colourdreamer/ AURA/Greenlites	1 No	5200
	ELEC-3.8.37	Supply,Transportation and Installation of DC 24V input DMX Data Repeater in the existing junction box with necessary connections. Makes:colourdreamer/ AURA/Greenlites	1 No	3900
	ELEC-3.8.38	Supply,Transportation and Installation of 350W,non-water proof,DC 24V Constant Voltage Power Supply(Driver) Unit in the existing junction box with necessary connections. Makes:Mean Well or its equivalent	1 No	4900
	ELEC-3.8.39	Supply,Transportation and Installation of 350W,non-water proof,DC 12V,1.25 A Constant Voltage Power Supply(Driver) Unit in the existing junction box with necessary connections. Makes:Mean Well or its equivalent	1 No	3200
		LED DRIVERS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
166	ELEC-3.8.40	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 LED indoor luminaire, with 2 Years Warranty. Makes: Philips /Crompton / Bajaj/ Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/Promtec/Eveready		
	a	6/9 W	1 No	225
	b	12/15/18/20 W	1 No	325
	c	36 W	1 No	475
	d	40/45 W	1 No	575
167	ELEC-3.8.41	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 LED street light fitting with 2 Years Warranty. Makes: Philips /Crompton / Bajaj/ Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/ Promtec/Eveready/Stanjo		
	a	15-30 W	1 No	350
	b	45-90 W	1 No	800
	c	120-180 W	1 No	1400
		SECTION - 4		
	4.1	U.G. CABLES		
168	ELEC-4.1.1	Supply and transportation of following XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I)/1554-I Makes: Torent / Universal / Unicab / Havells / KEI / Gloster / Polycab /RR Kabel		
	a	4 sqmm X2 core	1 RM	95
	b	6 sqmm X2 core	1 RM	110
	c	10 sqmm X2 core	1 RM	130
	d	6 SqmmX 4 core	1 RM	130
	e	10SqmmX 4 core	1 RM	150
	f	16 SqmmX 4 core	1 RM	165
	g	25 SqmmX 3.5 core	1 RM	210
	h	35SqmmX 3.5 core	1 RM	250
	i	50 SqmmX 3.5 core	1 RM	325
	j	70 SqmmX 3.5 core	1 RM	420
	k	95 SqmmX 3.5 core	1 RM	545

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	l	120 SqmmX 3.5 core	1 RM	660
	m	150 SqmmX 3.5 core	1 RM	760
	n	185 SqmmX 3.5 core	1 RM	930
	o	240 SqmmX 3.5 core	1 RM	1155
	p	300SqmmX 3.5 core	1 RM	1400
	q	400SqmmX 3.5 core	1 RM	1785
169	ELEC - 4.1.2	Supply and transportation of following XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I)/1554-I Makes: RPG / Finolex / Finecab / Paragon / V-Guard / Fortune Art / Suncab / Delton / Payal / Gemscab/ Orbit/Avocab/Laser/Rhino.		
	a	4 sqmm X2 core	1 RM	80
	b	6 sqmm X2 core	1 RM	90
	c	10 sqmm X2 core	1 RM	110
	d	6 SqmmX 4 core	1 RM	110
	e	10SqmmX 4 core	1 RM	126
	f	16 SqmmX 4 core	1 RM	141
	g	25 SqmmX 3.5 core	1 RM	180
	h	35SqmmX 3.5 core	1 RM	210
	i	50 SqmmX 3.5 core	1 RM	278
	j	70 SqmmX 3.5 core	1 RM	358
	k	95 SqmmX 3.5 core	1 RM	468
	l	120 SqmmX 3.5 core	1 RM	575
	m	150 SqmmX 3.5 core	1 RM	660
	n	185 SqmmX 3.5 core	1 RM	790
	o	240 SqmmX 3.5 core	1 RM	1000
	p	300SqmmX 3.5 core	1 RM	1210
	q	400SqmmX 3.5 core	1 RM	1570
		33 KV HT XLPE CABLES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
170	ELEC-4.1.3	Supply and Transportation of XLPE insulated IS:7098/II/85 H.T.cable for working voltage 33 K.V. Earthed with Stranded Compacted Circular Aluminium Conductor Screened with Extruded Semi-conducting compound, XLPE Insulated Screened with extruded semi-conducting compound in combination with Copper Tape, cores laid up, inner sheath of Thermoplastic tape, galvanised flat steel strip armoured and overall Extruded PVC Type ST- 2 Outer Sheathed cable etc complete Make: Torrent / Universal / Unicab / Havells / KEI / Polycab/Gloster/RR Kabel/RPG		
	a	3C X 95 Sqmm	1 RM	1440
	b	3C X 120 Sqmm	1 RM	1600
	c	3C X 150 Sqmm	1 RM	1750
	d	3C X 185 Sqmm	1 RM	1920
	e	3C X 240 Sqmm	1 RM	2200
	f	3C X 300 Sqmm	1 RM	2470
	g	3C X 400 Sqmm	1 RM	2840
		11 KV HT XLPE CABLES		
171	ELEC- 4.1.4	Supply and Transportation of XLPE insulated IS:7098/II/85 H.T.cable for working voltage 11 K.V Earthed with Stranded Compacted Circular Aluminium Conductor Screened with Extruded Semi-conducting compound, XLPE Insulated Screened with extruded semi-conducting compound in combination with Copper Tape, cores laid up, inner sheath of Thermoplastic tape, galvanised flat steel strip armoured and overall Extruded PVC Type ST- 2 Outer Sheathed cable etc complete Make: Torrent / Universal / Unicab / Havells / KEI / Polycab/Gloster/RR Kabel/RPG		
	a	3C X 35 Sqmm	1 RM	590
	b	3C X 50 Sqmm	1 RM	670
	c	3C X 70 Sqmm	1 RM	790
	d	3C X 95 Sqmm	1 RM	935
	e	3C X 120 Sqmm	1 RM	1050
	f	3C X 150 Sqmm	1 RM	1210
	g	3C X 185 Sqmm	1 RM	1420
	h	3C X 240 Sqmm	1 RM	1630
	i	3C X 300 Sqmm	1 RM	1830
	j	3C X 400 Sqmm	1 RM	2300
		Un Armoured and Armoured Copper Control Cables		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
172	ELEC-4.1.5	Supply and Transportation of XLPE/PVC insulated & PVC sheathed unarmoured control cables of 1.1 KV grade with copper conductor as per IS 7098 Part-I -1988 etc complete Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/orbit /Paragon/RR Kabel/RPG		
	a	2C x 1.5 sq.mm	1 RM	90
	b	3C x 1.5 sq.mm	1 RM	95
	c	4C x 1.5 sq.mm	1 RM	110
	d	5C x 1.5 sq.mm	1 RM	115
	e	6C x 1.5 sq.mm	1 RM	130
	f	8C x 1.5 sq.mm	1 RM	150
	g	10C x 1.5 sq.mm	1 RM	190
	h	12C x 1.5 sq.mm	1 RM	210
	i	14C x 1.5 sq.mm	1 RM	235
	j	19C x 1.5 sq.mm	1 RM	295
	k	2C x 2.5 sq.mm	1 RM	100
	l	3C x 2.5 sq.mm	1 RM	115
	m	4C x 2.5 sq.mm	1 RM	135
	n	5C x 2.5 sq.mm	1 RM	150
	o	6C x 2.5 sq.mm	1 RM	210
	p	8C x 2.5 sq.mm	1 RM	250
	q	10C x 2.5 sq.mm	1 RM	290
	r	12C x 2.5 sq.mm	1 RM	325
	s	14C x 2.5 sq.mm	1 RM	365
	t	19C x 2.5 sq.mm	1 RM	425
173	ELEC-4.1.6	Supply and Transportation of XLPE/PVC insulated & PVC sheathed armoured cables of 1.1 KV grade with copper conductor as per IS 7098 Part-I -1988 etc complete Make: Torrent / Universal / Unicab / Havells / KEI /Polycab/Gloster/Orbit/ Paragon/RR Kabel/RPG/Rhino		
	a	2Cx1.5 sq.mm	1 RM	95
	b	2Cx2.5 sq.mm	1 RM	100
	c	2C x 4 sq.mm	1 RM	125
	d	2C x 6 sq.mm	1 RM	180

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	2C x 10 sq.mm	1 RM	250
	f	2C x 16 sq.mm	1 RM	345
	g	3C x 4 sq.mm	1 RM	158
	h	3C x 6 sq.mm	1 RM	210
	i	3C x 10 sq.mm	1 RM	262
	j	3C x 16 sq.mm	1 RM	368
	k	4C x 4 sq.mm	1 RM	220
	l	4C x 6 sq.mm	1 RM	315
	m	4C x 10 sq.mm	1 RM	472
	n	4C x 16 sq.mm	1 RM	785
	o	4C x 25 sq.mm	1 RM	1260
	p	4C x 35 sq.mm	1 RM	1680
	q	4C x 50 sq.mm	1 RM	2415
	r	4C x 70 sq.mm	1 RM	3675
		CABLE TERMINATIONS AND ACCESSORIES		
174	ELEC-4.1.7	Supply and Making heat shrinkable type indoor/ outdoor/straight through terminations/joint kit of approved make suitable for XLPE insulated 33 KV cable, with required components, preparation of cable ends, testing etc. as required of following sizes. Makes: Raychem /M seal/ Denson/ Multy/ Transeal-Hongshang		
		INDOOR		
	a	3 Core 95/120/150/185 sq mm	Set	12075
	b	3 core 240/300/400 sqmm	Set	16800
		OUTDOOR		
	c	3 Core 95/120/150/185 sq mm	Set	16800
	d	3 core 240/300/400 sqmm	Set	23625
		STRAIGHT THROUGH		
	e	3 Core 95/120/150/185 sq mm	Set	34125
	f	3 core 240/300/400 sqmm	Set	49875

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
175	ELEC-4.1.8	Supply and Making heat shrinkable type indoor /outdoor/straight through terminations/ joint kit of approved make suitable for XLPE insulated 11 KV cable, with required components, preparation of cable ends, testing etc. as required of following sizes. Makes: Raychem /M seal/ Denson/ Multy/ Transeal- Hongshang		
		INDOOR		
	a	3 core 35/50 sqmm	Set	5250
	b	3 core 70/95 sqmm	Set	7875
	c	3 core 120/150/185 sqmm	Set	8925
	d	3 core 240/300 sqmm	Set	9345
	e	3 core 400/500 sqmm	Set	9870
		OUTDOOR		
	f	3 core 35/50 sqmm	Set	8925
	g	3 core 70/95 sqmm	Set	11025
	h	3 core 120/150/185 sqmm	Set	12075
	i	3 core 240/300 sqmm	Set	13125
	j	3 core 400/500 sqmm	Set	14700
		STRAIGHT THROUGH		
	k	3 core 35/50 sqmm	Set	14175
	l	3 core 70/95 sqmm	Set	16800
	m	3 core 120/150/185 sqmm	Set	19425
	n	3 core 240/300 sqmm	Set	21000
176	ELEC-4.1.9	Supply & Making heat shrinkable outdoor straight through joint for following size of PVC/ XLPE insulated aluminium conductor cable of 1.1 KV grade including cost of compound, sleeves etc. as required. Makes: Raychem /M seal/ Denson/ Multy/ Transeal- Hongshang		
	a	3.5core x 25/35/50 sq.mm	Set	1575
	b	3.5 core x 70/95/120 sq.mm	Set	2520
	c	3.5 core x 150/185/240 sq.mm	Set	3675
	d	3.5core x 300/400 sq.mm	Set	5775
	e	4 core x 6/10/16 sq.mm	Set	840

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
177	ELEC-4.1.10	Supply and making one end termination with heavy duty double compression brass gland as per BS 6121:2005 ,IP 66 complete,SIBG type, heavy duty Alluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Makes:Dowels/Comet/SMI		
	a	3.5core x 25 sq.mm	Set	225
	b	3.5core x 35 sq.mm	Set	300
	c	3.5 corex 50 sq.mm	Set	350
	d	3.5core x 70 sq.mm	Set	520
	e	3.5core x 95 sq.mm	Set	595
	f	3.5core x 120 sq.mm	Set	750
	g	3.5core x 150 sq.mm	Set	900
	h	3.5core x 185 sq.mm	Set	1000
	i	3.5core x 240sq.mm	Set	1500
	j	3.5core x 300 sq.mm	Set	1800
	k	3.5core x 400 sq.mm	Set	2400
	l	4 core x 6/10/16 sq.mm	Set	230
178	ELEC-4.1.11	Supply and making one end termination with heavy duty single compression brass gland as per BS 6121:2005 ,IP 66 complete, SIBG type, heavy duty Alluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Makes:Dowels/Comet/SMI		
	a	2 coreX4/6/10 sqmm	Set	65
	b	4 coreX6/10/16 Sqmm	Set	85
	c	3.5 coreX25 Sqmm	Set	100
	d	3.5 coreX 35Sqmm	Set	150
	e	3.5 coreX50 Sqmm	Set	160
	f	3.5 coreX70 Sqmm	Set	175
	g	3.5 coreX95 Sqmm	Set	210
	h	3.5 coreX120 Sqmm	Set	250
	i	3.5 coreX150 Sqmm	Set	450
	j	3.5 coreX185 Sqmm	Set	550
	k	3.5 coreX240 Sqmm	Set	650

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	l	3.5 coreX300Sqmm	Set	900
	m	3.5 coreX400Sqmm	Set	1200
180	ELEC-4.1.12	Supply and making end termination with heavy copper lugs (pin/ ring type) as per IS specification, duly crimped with crimping tool, PVC tape etc of following size Makes:Dowels/Jainson/Comet		
	a	up to 16 sqmm	each	20
	b	25 Sqmm	each	27
	c	35Sqmm	each	30
	d	50 Sqmm	each	45
	e	70 Sqmm	each	68
	f	95 Sqmm	each	88
181	ELEC-4.1.13	Supply and making end termination with heavy Alluminium lugs (pin/ ring type) as per IS specification duly crimped with crimping tool, PVC tape etc of following size Makes:Dowels/Jainson/Comet		
	a	up to 16 sqmm	each	10
	b	25 Sqmm	each	15
	c	35Sqmm	each	20
	d	50 Sqmm	each	25
	e	70 Sqmm	each	30
	f	95 Sqmm	each	35
	g	120 Sqmm	each	40
	h	150 Sqmm	each	45
	i	185 Sqmm	each	55
	j	240 Sqmm	each	80
	k	300 Sqmm	each	100
	l	400 Sqmm	each	170
	4.2	CABLE TRAYS		
182	ELEC-4.2.1	Supply,transporatation & installation of following sizes of Hot Dipped Galvanized Iron perforated cable trays without cover, including horizontal and vertical bends, reducers tees,cross members and other accessories as required and duly suspended from the ceiling/Wall with suspenders etc., complete (NB:Add 30% Extra for perforated cable tray with cover)		
	a	100mm x 50mm x 1.6mm	1 RM	280

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	150mm x 50mm x 1.6mm	1 RM	325
	c	300mm x 50mm x 1.6mm	1 RM	600
	d	450mm x 50mm x 2.0mm	1 RM	870
	e	600mm x 50mm x 2.0mm	1 RM	995
	f	300mm x 62.5mm x 2.0mm	1 RM	720
	g	450mm x 62.5mm x 2.0mm	1 RM	965
	h	600mm x 62.5mm x 2.0mm	1 RM	1195
	i	750mm x 62.5mm x 2.0mm	1 RM	1415
	j	900mm x 62.5mm x 2.0mm	1 RM	1680
	k	600mm x 75mm x 2.0mm	1 RM	1335
	l	750mm x 75mm x 2.0mm	1 RM	1470
	m	900mm x 75mm x 2.0mm	1 RM	1730
183	ELEC-4.2.2	Supply, transportation & installation of following sizes of Hot Dipped Galvanized Iron ladder type cable trays with rungs at span of 250 mm including horizontal and vertical bends, reducers tees, cross members and other accessories as required and duly suspended from the ceiling/wall with suspenders and etc., complete		
	a	150mm x 50mm x 2.0mm	1 RM	410
	b	300mm x 50mm x 2.0mm	1 RM	515
	c	450mm x 50mm x 2.0mm	1 RM	680
	d	600mm x 75mm x 2.0mm	1 RM	840
	e	750mm x 75mm x 2.0mm	1 RM	890
	f	900mm x 75mm x 2.0mm	1 RM	945
	4.3	DOUBLE WALLED CORRUGATED HDPE PIPE		
184	ELEC-4.3.1	Supply and Transportation of 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.		
	a	Outer dia 50mm and Inner dia 38mm	1 RM	90
	b	Outer dia 63mm and Inner dia 51mm	1 RM	115
	c	Outer dia 78mm and Inner dia 63mm	1 RM	140
	d	Outer dia 90mm and Inner dia 76mm	1 RM	150
	e	Outer dia 120mm and Inner dia 103.5mm	1 RM	235
	f	Outer dia 160 mm and Inner dia 136	1 RM	350

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		mm		
	g	Outer dia 180 mm and Inner dia 152 mm	1 RM	460
	h	Outer dia 200 mm and Inner dia 170 mm	1 RM	545
		SECTION - 5		
	5.1	FANS		
	ELEC-5.1.1	Supply of 48" (1200mm) Sweep 5 star rated BLDC (Brush less Direct Current) Ceiling Fan with double ball bearings, input voltage 230V AC converted to 24 V DC, power input not more than 32W , air delivery 210/220 cubic meter/min with remote and without Regulator. Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Efficiencia)	1 No	2995
	ELEC-5.1.2	Supply of 56" (1400mm) Sweep 5 star rated BLDC (Brush less Direct Current) Ceiling Fan with double ball bearings, input voltage 230V AC converted to 24 V DC, power input not more than 32W , air delivery not less than 240 cubic meter/min with remote and without Regulator. Makes : Atomberg(Gorilla GV2)/ Halonix(Plasma) /Havells(Efficiencia)	1 No	3495
185	ELEC-5.1.3	Supply of 48" (1200mm) Sweep 5 star rated Ceiling Fan , with double ball bearings, air delivery more than 200 cubic meter/min but without Regulator. Makes : Crompton HS Plus / Havells ES Neo/Orient Energy Star/ Halonix(Zephyr)/Polycab(Synergy Star) / G.M. (Air Wave Premium)	1 No	2000
186	ELEC-5.1.4	Supply of 48" (1200mm) Sweep decorative Ceiling Fan, with double ball bearings with all accessories without Regulator. Makes: Crompton HS Decora / Bajaj Regal Star / Havells Spark deco / Orient summer crown /Halonix(Zephyr) /Polycab(India Glory) /G.M. (G-Storm)	1 No	2300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
187	ELEC-5.1.5	Supply of 56" (1400mm) Sweep 5 star rated Ceiling Fan , with double ball bearings, but without Regulator. Makes : Crompton HS / Havells Velocity/Orient Summer King /Halonix(Zephyr)/Polycab(Synergy Star)	1 No	2400
188	ELEC-5.1.6	Supply of 16" (400mm) Wall mounted Fan. Makes: Crompton High Flow / Bajaj Elite / Havells Swing Premia gold / Orient Wall 45/Halonix Krypton / G.M. (Bolt)	1 No	2300
189	ELEC-5.1.7	Supply of 16" (400mm) Pedestal Fan. Makes: Crompton PF High Flow LG / Bajaj Spectrum / Havells Swing / Orient Stand 32/Halonix Krypton/Polycab / G.M. (Bolt)	1 No	2550
190	ELEC-5.1.8	Supply of 18" (450mm) Wall mounting / Pedestal Air Circulators. Makes: Crompton / Havells Turbo Force / Orient / Almounard/Halonix Gallion/Polycab./ G.M. (Air-Burst)	1 No	5400
191	ELEC-5.1.9	Supply of 24" (600mm) Wall mounting / Pedestal Air Circulators. Makes: Crompton / Havells Turbo Force / Almounard/Halonix	1 No	6500
192	ELEC-5.1.10	Supply of 12" (300mm) Cabin fan. Makes: Crompton / Havells ciera / Orient AP12./Halonix	1 No	1700
193	ELEC-5.1.11	Supply of 12" (300mm) Light duty exhaust fan with metallic blades and wire guard etc complete. Makes: Crompton / Bajaj Bahar WG / Havells Ventil Air-DB / Orient hill air/Halonix /Polycab/ G.M. (Xenix)	1 No	1450
194	ELEC-5.1.12	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/Halonix /Polycab/ G.M. (Xenix)	1 No	1290
195	ELEC-5.1.13	Supply of 12" (300mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force	1 No	2750

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
196	ELEC-5.1.14	Supply of 15" (375mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton	1 No	3200
197	ELEC-5.1.15	Supply of 18" (450mm) ISI, 900 RPM Heavy duty exhaust fan with metallic blades with Mark. Makes: Crompton / Almounard / Havells Turbo Force/Halonix Krypton	1 No	4100
	5.2	WATER HEATERS (Conventional & Solar)		
198	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 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 Solarium BLX / Jaquar Elena / Venus Lyra / Racold Eterno Swift / AO Smith HSE SDS /Havells Puro Turbo/Warmex		
	a	15 Ltrs	1 No	8950
	b	25 Ltrs	1 No	10500
200	ELEC-5.2.2	Supply,Transportation,erection and Commissioning of MNRE approved and confirming to IS 12933 P-1,2,3&5..... Tube Collector type Solar Water heating System with temperature application of 60 degrees with Stain less steel - 304L grade inner tank with PUF Insulation and Alluminum Cladding for Outer Cover,Suitable EPDM rubber pipe connection from Collector to Solar Tank with electrical Heating back up etc., with 3 years Guarantee for Solar system and additional 2 years warranty. Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD		
	a	250 LPD	1 No	48400
	b	375LPD	1 No	67000
	c	500 LPD	1 No	76000
	d	1000 LPD	1 No	148000
201	ELEC-5.2.3	Supply,Transportation,erection and Commissioning of MNRE approved and confirming to IS 12933 P-1,2,3&5..... Flate plate Collector type Solar Water heating System with temperature application of 60 degrees with Stain less steel - 304L grade inner tank with PUF Insulation and Alluminum Cladding for Outer Cover,Suitable EPDM rubber pipe connection from Collector to Solar Tank with electrical Heating back up etc., with 3 years Guarantee for Solar system and additional 2 years warranty. Make:TATA / BHEL/ BOSCH/ ETC/V-GUARD /RACOLD		
	a	250 LPD	1 No	52000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	375 LPD	1 No	72000
	c	500 LPD	1 No	83500
	d	1000 LPD	1 No	165000
		HEAT PUMP		
202	ELEC-5.2.4	Supply, Transportation and fixing of Energy Efficient Heat pump(Hybrid) water heater of Mono block storage / type Vertical / 230/250V single phase 50 Hz rated water heater with SS tank coated with Enamel and stain less body with IP X 4 water Proff grade of capacity Mono Block unit to withstand up to 0.8 - 1.0 MPa bar of water pressure including 2 Kw Heating element and Auto Defrosting and with 50 MM Puf insulation with all standard accessories and dead weight pressure reducing valve on out let side, including cost of CPVC Piping / Metallic hose pipe, testing and all labour charges etc., complete. Make:Jaquar/AO Smith/Voltex/Racold /Rheem		
	a	200 Ltr	1 No	109200
	b	300 Ltr	1 No	138600
203	ELEC-5.2.5	Supply, Transportation and fixing of Energy Efficient Heat pump(Hybrid) water heater of split type storage / type Vertical / 230/250V single phase 50 Hz rated water heater with SS tank coated with Enamel and prepainted steel body with IP X 4 water Proff grade of .....capacity Mono Block unit to withstand up to 0.8 - 1.0 MPa bar of water pressure including 2 Kw Heating element and Auto Defrosting and with 50 MM Puf insulation with all standard accessories and dead weight pressure reducing valve on out let side, including cost of CPVC Piping / Metallic hose pipe, testing and all labour charges etc., completeMake:Jaquar/AO Smith/Voltex/Racold /Rheem		
	a	400 Ltr	1 No	134500
	b	500 Ltr	1 No	164640
	5.3	ACCESSORIES FOR WATER HEATERS		
204	ELEC-5.3.1	Supply and fixing of stem type ISI marked (IS 3017 / 85) snap action adjustable thermostat storage water heater including making connection testing etc. as required.Makes:		
	a	11" stem thermostat	1 No	190
	b	7" stem thermostat	1 No	170
205	ELEC-5.3.2	Supply and fixing of stem type, ISI marked, push to reset type auto thermal cut off and rated at 20 A 250 V including testing etc. as required.	1 No	225
206	ELEC-5.3.3	Supply and fixing of ISI marked (IS:4159) marked copper sheathed,nickle plated, mineral filled heating element including making connection testing etc as required		
	a	3.0 KW	1 No	650

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	2.0 KW	1 No	620
207	ELEC-5.3.4	Supply and fixing of twin ceramic cartridge, shock and hard water proof heating element including making connecton testing etc as required		
	a	3.0 KW	1 No	750
	b	2.0 KW	1 No	650
208	ELEC-5.3.5	Supply and fixing of base plate assembly with neoprene rubber gasket, inlet socket with inbuilt NRV/ PRV and drain out system and outlet socket pipe, fusible plug assembly, mounting hardwares complete etc. as required.		
	a	15 Ltr. To 50 Ltr. Capacity SWH	1 No	1400
209	ELEC-5.3.5	Supply and fixing of heavy duty C.P. connection for storage water heater for inlet and outlet of length 300-600 mm including the cost of nuts, washers etc as required.	1 set	250
210	ELEC-5.3.6	Charges for brass welding of inner copper tank for storage water heater including opening,refixing,testing etc. as required	job	400
211	ELEC-5.3.7	Charges for descaling of storage water heater including required chemical, opening, refixing, testing as complete	job	300
212	ELEC-5.3.8	Charges for Fixing of storage water heater including four nos. rag bolts of suitable size,supply & making heavy gauge inlet, outlet C.P. connection, testing, carrying from store to site,etc. as required	job	650
	5.4	PUMPSETS		
		SINGLE PHASE SUBMERSIBLE MOTOR PUMP SETS		
213	ELEC-5.4.1	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 240V ± 10% , SinglePhase 50 Hz AC supply,etc complete for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha		
	a	0.75HP 8 Stage	1 No	14150
	b	1.00HP 10 Stage	1 No	16200
	c	1.00HP 15 Stage	1 No	16700
	d	1.50HP 21 Stage	1 No	20250

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	2.00HP 25 Stage	1 No	24300
	f			
214	ELEC-5.4.2	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 240V ± 10% , SinglePhase 50 Hz AC supply,etc complete for 4" Bore well. Makes: Pluga / Sterling / Falcon / Kumar / Unnati zen/Duke/Lada/Ellen/Suguna/UNltek/KSP(Karunya)/Anco/Sabar/Fitwell/Deccan /Karvel / SILVER		
	a	0.75HP 8 Stage	1 No	12700
	b	1.00HP 10 Stage	1 No	14500
	c	1.00HP 15 Stage	1 No	15000
	d	1.50HP 21 Stage	1 No	18200
	e	2.00HP 25 Stage	1 No	21850
	f			
		THREE PHASE SUBMERSIBLE MOTOR PUMP SETS.		
215	ELEC-5.4.3	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V ± 10% , Three Phase 50 Hz AC supply,etc complete for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha		
	a	3.00HP 15Stage	1 No	19700
	b	4.00HP 20Stage	1 No	23000
	c	5.00HP 25Stage	1 No	27200
216	ELEC-5.4.4	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V ± 10% , Three Phase 50 Hz AC supply,etc complete for 4" Bore well. Makes: Pluga / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Duke/Lada/Ellen/ Suguna/ UNltek/KSP(Karunya)/ Anco/ Sabar/ Fitwell/Deccan/Karvel/ SILVER		
	a	3.00HP 15Stage	1 No	18500
	b	4.00HP 20Stage	1 No	21600
	c	5.00HP 25Stage	1 No	25600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
217	ELEC-5.4.5	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V ± 10% , Three Phase 50 Hz AC supply,etc complete for 6" Bore well. Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/ PSG/AryenVarsha		
	a	3.00HP 5-10 Stage	1 No	30000
	b	5.00HP, 5-10Stage	1 No	33750
	c	5.00HP, 12-16 Stage	1 No	38500
	d	7.50HP, 5-10 Stage	1 No	37900
	e	7.50HP, 12-16 Stage	1 No	42000
	f	7.50HP, 20-24 Stage	1 No	43000
	g	10HP, 5-10 Stage	1 No	44500
	h	10HP, 12-16 Stage	1 No	46000
	i	10HP, 20-24 Stage	1 No	52000
	j	12.5HP, 8-12 Stage	1 No	46000
	k	12.5HP, 16-24 Stage	1 No	54000
	l	15HP, 8-12 Stage	1 No	57900
	m	15HP, 16-24 Stage	1 No	59800
	n	20HP 10-20 Stage	1 No	69500
	o	20HP 30-40 Stage	1 No	72500
	p	25HP 20-25 Stage	1 No	79000
218	ELEC-5.4.6	Supply and Transportation of .....5star rated submersible motor pumpset, confirming to IS 8034 and motor confirming to IS 9283 with water proof winding,Pump shall be suitable for various delivery head and discharge with stainless steel shaft.Motor suitable for working on 415V ± 10% , Three Phase 50 Hz AC supply,etc complete for 6" Bore well. Makes: Plugra / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Duke/Lada/Ellen/Suguna/UNItek /KSP (Karunya) /Anco/ Sabar/Fitwell/Polycab/Deccan/Karvel/ SILVER		
	a	3.00HP 5-10 Stage	1 No	27000
	b	5.00HP, 5-10Stage	1 No	30300
	c	5.00HP, 12-16 Stage	1 No	34650
	d	7.50HP, 5-10 Stage	1 No	34100
	e	7.50HP, 12-16 Stage	1 No	37800
	f	7.50HP, 20-24 Stage	1 No	38700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	10HP, 5-10 Stage	1 No	40000
	h	10HP, 12-16 Stage	1 No	41500
	i	10HP, 20-24 Stage	1 No	46800
	j	12.5HP, 8-12 Stage	1 No	41500
	k	12.5HP, 16-24 Stage	1 No	48600
	l	15HP, 8-12 Stage	1 No	52100
	m	15HP, 16-24 Stage	1 No	53800
	n	20HP 10-20 Stage	1 No	62500
	o	20HP 30-40 Stage	1 No	65200
		SINGLE PHASE OPEN WELL SUBMERSIBLE MOTOR PUMP SETS		
219	ELEC-5.4.7	Supply and Transportation of .....Single phase open well submersible motor pumpset confirms to IS 14220 : 1994. Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi/PSG/ AryenVarsha		
	a	1.00HP	1 No	11200
	b	1.50HP	1 No	12600
	c	3.00HP	1 No	17200
220	ELEC-5.4.8	Supply and Transportation of .....Single phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. Makes: Plugra / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Duke/LDK/Ellen/Suguna/UNitek /KSP (Karunya) / Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER		
	a	1.00HP	1 No	10500
	b	1.50HP	1 No	12000
	c	3.00HP	1 No	16350
		THREE PHASE OPEN WELL SUBMERSIBLE PUMP SETS		
221	ELEC-5.4.9	Supply and Transportation of Three phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. . Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi /PSG/ AryenVarsha		
	a	3.00HP(65x50)	1 No	17200
	b	5.00HP(75x65)	1 No	21500
	c	7.50HP(100x75)	1 No	25500
	d	10.00HP(100x75)	1 No	32500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
222	ELEC-5.4.10	Supply and Transportation of Three phase open well ISI submersible motor pumpset confirms to IS 14220 : 1994. . Makes: Pluga / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Duke/LDK/Ellen/Suguna/UNltek/ KSP(Karunya) /Polycab/ Anco/ Sabar /Fitwell/Deccan/Karvel/ SILVER		
	a	3.00HP(65x50)	1 No	16500
	b	5.00HP(75x65)	1 No	20200
	c	7.50HP(100x75)	1 No	24000
	d	10.00HP(100x75)	1 No	31000
		SINGLE PHASE MONO BLOCK MOTOR PUMP SETS.		
223	ELEC-5.4.11	Supply and Transportation of Single phase Mono block CI body motor pumpset confirms to IS 9079:2002 Makes: Kirloskar / Crompton / Texmo / CRI / KSB/Lubi / Havells Hi-flow V2 / PSG/AryenVarsha		
	a	0.5HP(25x25mm)	1 No	5000
	b	1.0HP (25x25mm)	1 No	7150
	c	1.5HP(32x25mm)	1 No	9600
224	ELEC-5.4.12	Supply and Transportation of Single phase Mono block CI body motor pumpset confirms to IS 9079:2002 Makes: Pluga / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Ellen/LDK/Suguna/UNltek/Polycab/Anco/ Sabar/Fitwell/Deccan/Karvel / SILVER		
	a	0.5HP(25x25mm)	1 No	4700
	b	1.0HP (25x25mm)	1 No	6800
	c	1.5HP(32x25mm)	1 No	9150
225	ELEC-5.4.13	Supply and Transportation of..... Three phase ISI self priming Mono block IP44 motor pumpset . Makes: Kirloskar / Crompton / Texmo / CRI / KSB /Lubi/ AryenVarsha		
	a	2.00HP(40x40mm)	1 No	14200
	b	3.0HP (50x50mm)	1 No	19200
	c	5.00HP(80x80mm)	1 No	23200
226	ELEC-5.4.14	Supply and Transportation of..... Three phase ISI self priming Mono block IP44 motor pumpset . Makes: Pluga / U-Neel / Sterling / Falcon / Kumar / Unnati zen/Ellen/LDK/Suguna/UNltek/Polycab/Anco/ Sabar/Fitwell/Deccan/Karvel/ SILVER		
	a	2.00HP(40x40mm)	1 No	13500
	b	3.0HP (50x50mm)	1 No	18300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	5.00HP(80x80mm)	1 No	22200
		CONTROL PANEL BOARD FOR MOTOR PUMPSETS		
227	ELEC-5.4.15	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 including supply and fixing of DOL starter of make C&S/LTLK/ Seimens/ BCH/KSP(Karunya)/ Crompton. complete.,	1 No	4500
228	ELEC-5.4.16	Fabrication , transportation and supply of suitable size panel board for single phase submersible motor 2 to 3HP consisting of relay, Contactor, starting and running capacitors, Voltmeter, Ammeter, indicator lamps, MCB , on/off switch including supply and fixing of DOL starter of make C&S/LTLK/Seimens/BCH /KSP(Karunya) /Crompton. complete.,.	1 No	6000
229	ELEC-5.4.17	Fabrication ,transportationand and supply 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.		
		Voltmeter ; 0-500 V 96x96mm size. Makes: L&T / C&S / SALZAR / HPL/ AEI / Mecco / Rishab - 1No		
		0 to 20 Amps / 0 50 Amps Ammeter (96x96mm size). Makes: L&T / C&S / SALZAR / HPL/ AEI / Mecco / Rishab- 1No.		
		Single phase preventor of suitable range Makes: L&T / Minilec / Powertec. - 1No.		
		32 A TP, 10KA MCB. Makes: Legrand / Schneider / - 1No		
		Indication lamps (R-Y-B) with switch control - 1set		
		Voltmeter & Ammeter selector switch - 2 Nos		
		Supply and fixing of ISI Mark suitable capacitor Makes: L&T / Siemens / Schneider / Epcos/Havells.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
230	a	Upto 7.5 HP with DOL Starter of. Make C&S.Crompton / L&T /KSP/ Siemens/BCH.	1 No	8000
231	b	above 7.5 HP to 12.5 HP with Star-Delta Starter of Make C&S/Crompton / L&T / Siemens/BCH.	1 No	14000
232	c	From 15 HP up to 20 HP with Automatic Star Delta Starter of Make C&S/Crompton / L&T / Siemens/BCH.	1 No	18500
233	ELEC-5.4.18	Supply & Fixing of D.O.L Starter 250V, Single phase, 50Hz. With SS encloser comprising of contactor with bi-metalic relay with necessary push buttons, etc., complete suitable for..... Makes: Siemens / Crompton / L&T (MF1)		
	a	up to 3 HP	1 No	950
234	ELEC-5.4.19	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 for..... Makes: Siemens / Crompton / L&T (MK2 DOL).		
	a	up to 3 HP	1 No	1700
	b	5 to 7.5 HP	1 No	1900
	c	10 HP	1 No	2100
235	ELEC-5.4.20	Supply & Fixing of Star-Delta Starter 415V, 3 phase, 50Hz.. enclosed with no volt coil, overload protection and single phase preventor , etc., complete suitable for Makes: Siemens / Crompton / L&T (MU1 DOL)		
	a	12.50 to 15HP.	1 No	6800
	b	25HP to 30HP	1 No	11220
		UPVC PIPES AND FITTINGS		
236	ELEC-5.4.21	Supply and delivery of for submersible motors with both ends square threaded, with rubber 'O' rings with smooth inner surface which can take the minimum load of 2100 to 4000 Kgs weights. Makes : Ashirvad / Finolex / Waterflo /Sudhakar		
	a	42 / 32mm dia UPVC raising column pipe, with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	130
	b	48 / 40mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	160
	c	60/50 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	230
	d	75/65 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	310

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	88/80 mm UPVC pipe with standing upto 20 Kgs / CM2 upto 200 Mts	1RM	445
237	ELEC-5.4.22	Supply and delivery of heavy duty couplings 42/32 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	40
238	ELEC-5.4.23	Supply and delivery of heavy duty couplings 48/40 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	55
239	ELEC-5.4.24	Supply and delivery of heavy duty couplings 60/50 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	60
240	ELEC-5.4.25	Supply and delivery off heavy duty couplings 75/65 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	70
241	ELEC-5.4.26	Supply and delivery of heavy duty couplings 88/80 mm UPVC pipe (27 Kgs / CM 2) capable of with standing up to 27 Kgs / CM2 above 200 mts and upto 300 mts	1NO	80
242	ELEC-5.4.27	Supply and Delivery of CI Adopter Assembly Makes : Ashirvad / Finolex / Waterflo		
	a	1/2" (48/40mm)	1NO	575
	b	2" (60/50mm)	1NO	760
	c	2 1/2" (75/65 mm)	1NO	980
243	ELEC-5.4.28	Supply and Delivery of pump guard assembly with 2Nos SS Powder coated flange and 2Nos SS Rods with nut and colter pin. Makes : Ashirvad / Finolex / Waterflo / Apollo		
	a	1 1/2" (48/40mm)	1NO	360
	b	2" (60/50mm)	1NO	400
	c	2 1/2" (75/65 mm)	1NO	550
	d	3"(88/80 mm)	1NO	800
	5.5	AIR CONDITIONERS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
244	ELEC-5.5.1	Supply of .....split AC unit with high wall mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units with 3 mts of copper piping, insulation kit and 4 mts of 3 core copper flexible cable including cordless remote control etc.		
		1.5TR Split ACs		
	a	1.5 TR 3 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A. Makes: Mitsubishi MS-GK 18VA / O General ASGA18FTTC/Toshiba RAS18S3KPS	1 No	44500
	b	1.5 TR 3 Star capable of delivering 18000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes: Blue Star 3HW18VCTU / Daikin FTE-M or N Sereis / Hitachi / Voltas / Carrier Superia.	1 No	41500
		2.0 TR Split ACs		
	c	2.0 TR 3 Star capable of delivering 24000 BTU/ hr and above with operating on refrigerant R-32 / R-410A Makes: Mitsubishi MS-GK24VA / O General ASG24FUTC/ Toshiba RAS24S3KPS	1 No	51500
	d	2.0 TR 3 Star capable of delivering 24000 BTU/ hr and above with operating on refrigerant R-32 / R-410A Makes: / Hitachi / Blue Star 3HW24LBTU / Daikin / Voltas / Carrier Superia.	1 No	45500
		Inverter Split AC Unts (Cooling Only)		
245	ELEC-5.5.2	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 mts of copper piping, insulation kit and 4 mts of 4 core copper flexible chord with cordless remote control etc., dual barrier coating in order to protect coil form oxidigation.		
		0.8/ 1.0TR Split ACs		
	a	0.8 TR 5 Star capable of delivering 9600 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes: Mitsubishi MSY-GN01VF/ O General ASGG09JLCA / Toshiba		34500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	0.8 TR 5 Star capable of delivering 9600 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes: Blue star 5CNHW09PAFU/Carrier Superia/Hitachi/Daikin		29500
	c	1.0 TR 5 Star capable of delivering 12000 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes: Mitsubishi MSY-GN13VF/ O General ASGG12CGTA/ Toshiba RAS13N3KCV		38500
	d	1.0 TR 5 Star capable of delivering 12000 BTU/hr and above with operating on refrigerant R-32/ R-410A Makes: Blue Star 5HW12PAFU / Carrier Supiria / Hitachi / Daikin		33500
		1.5, 1.8 & 2.0TR Split ACs		
	e	1.5 TR 5 star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A, COP not less than 4.5 Makes: Mitsubishi MS-GN18VF / O General ASGA18JCC/Toshiba RAS18N3KCV	1 No	48500
	f	1.5 TR 5 star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32/ R-410A, COP not less than 4.5 Makes: / Blue Star PAFU-DAFU series / Daikin FTKC50NVM / Hitachi	1 No	46500
	g	1.8/1.9TR 5star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes: Mitsubishi MSY-GN22UF / O General /Toshiba RAS 22N 3KCV	1 No	57000
	h	1.8/1.9 TR 5 Star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes: Blue star CAFU-OATU series / Hitachi / Daikin	1 No	54000
	i	2.0/2.2 TR 5 star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes: Mitsubishi MS-GN26VF / O General ASGA24JCC/Toshiba	1 No	66500
	j	2.0 TR 5 Star capable of delivering 24000 BTU/hr and above with operating on refrigerant R-410A / R-32 Makes: Blue star BAFU-DAFU series / Hitachi / Daikin	1 No	59000
		INVERTER CASSETTE TYPE AC UNITS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
246	ELEC-5.5.35	Supply of inverter 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, without refrigerent piping and cable.		
	a	1.5 TR 4 star Single Phase capable of delivering 18000 BTU / hr and above with operating on refrigerant R-32 / R-410A. Makes: Mitsubishi PLY-SP18BA / Toshiba RAV-SE561UP / O General.	1 No	73000
	b	2.0TR 4 star Single Phase capable of delivering 24000 BTU / hr and above with operating on refrigerant R-32 / R-410A, Makes: Mitsubishi PLY-SP24BA / O General AUGA2SFRTA / Toshiba RAV-SE801UP	1 No	78000
	c	2.0TR 4 star Single Phase capable of delivering 24000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes: Blue Star3HNCS24YAF/ Daikin / Carrier.	1 No	75000
	d	3.5 TR 4 star Three Phase capable of delivering 42000 BTU / hr and above with operating on refrigerant R-32 / R-410A, Makes: Mitsubishi PLY-SP42BA / O General /Toshiba	1 No	138000
	e	3.5 TR 4 star Three Phase capable of delivering 42000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes: Daikin / Bluestar / Carrier	1 No	135500
	f	4.0 TR 4 star Three Phase capable of delivering 48000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes: Mitsubishi PLY-SP48BA / O General / Toshiba RAV-SE1251UP	1 No	142000
	g	4.0 TR 4 star Three Phase capable of delivering 48000 BTU / hr and above with operating on refrigerant R-32 / R-410A Makes: Blue Star / Carrier / Daikin	1 No	129000
		TOWER MODEL (Vertical) TYPE AC UNITS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
247	ELEC-5.5.36	Supply of Slim line / Tower Model/Verticool type .....split AC unit with indoor unit and floor mounted outdoor condensing unit with 3.5 mtr of Copper piping,insulation kit and 4 mtr of 4 core copper flexible card with refrigerant 410A/R32, Hermetically sealed Scroll compressor suitable for operation on AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units etc complete with cordless remote control		
	a	3.0/ 3.3TR Three Phase capable of delivering 39600 BTU/hr and above with operating on refrigerant R-32/R-410 Makes: Carrier /Daikin / Blue Star	1 No	91000
	b	3.8/4.0TR Three Phase capable of delivering 45600BTU/hr and above with operating on refrigerant R-32/R-410 Makes: Carrier /Daikin / Blue Star	1 No	96500
	c	4.5/ 4.6TR Three Phase capable of delivering 55200 BTU/hr and above with operating on refrigerant R-32/R-410 Makes: Carrier /Daikin / Blue Star	1 No	105000
		HVAC SYSTEMS(VRV/VRF)		
248	ELEC-5.6.1	Supply of Air cooled VRV / VRF Air Conditioning system of having high COP complete with indoor and outdoor units duly charged with refrigerant R-410A and oil (first charge) suitable for cooling with individual controller, (suitable for 415 +/- 10% for outdoor and 230 +/- 5% for indoor units) and complete with all accessories, fittings etc. The units shall be BMS Compatible. Outdoor Units shall be fully inverter system complete with 100% scroll/rotary compressor and drive arrangement, initial charge of refrigerant (R-410A),refrigerant piping, drier, sight glass, dual pressure cutout all housed and supported properly in cabinet, air cooled condenser & its controller for following capacities. The VRV system shall be cooling only system. Makes: Mitsubishi /DAIKIN/Toshiba/O General		
		Type of Compressor : Hermitic sealed Inverter Scroll/Twin Rotary		
		ODU should deliver the required capacity at the ambient conditions of the place as per ISHRAE Standards.		
		The System should be highly energy efficient and COP shall not be less than 3.7. The outdoor units shall be suitable for operation between 5 and 53 deg C in cooling mode.		
	a	6 HP	1 No	145000
	b	8 HP	1 No	158000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	10 HP	1 No	196000
	d	12 HP	1 No	220000
	e	14 HP	1 No	249000
	f	16 HP	1 No	284000
	g	18 HP	1 No	312000
	h	20 HP	1 No	343000
	ELEC-5.6.2	<p>Supply of Air cooled VRV / VRF Air Conditioning system of having high COP complete with indoor and outdoor units duly charged with refrigerant R-410A and oil (first charge) suitable for cooling with individual controller, (suitable for 415 +/- 10% for outdoor and 230 +/- 5% for indoor units) and complete with all accessories, fittings etc. The units shall be BMS Compatible.</p> <p>Outdoor Units shall be fully inverter system complete with 100% scroll/rotary compressor and drive arrangement, initial charge of refrigerant (R-410A), refrigerant piping, drier, sight glass, dual pressure cutout all housed and supported properly in cabinet, air cooled condenser & its controller for following capacities. The VRV system shall be cooling only system.</p> <p>Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung</p>		
		Type of Compressor : Hermetic sealed Inverter Scroll/Twin Rotary		
		ODU should deliver the required capacity at the ambient conditions of the place as per ISHRAE Standards.		
		The System should be highly energy efficient and COP shall not be less than 3.7. The outdoor units shall be suitable for operation between 5 and 53 deg C in cooling mode.		
	a	6 HP	1 No	133500
	b	8 HP	1 No	145000
	c	10 HP	1 No	180300
	d	12 HP	1 No	202400
	e	14 HP	1 No	229000
	f	16 HP	1 No	261000
	g	18 HP	1 No	287000
	h	20 HP	1 No	315000
	ELEC-5.6.3	Supply and Installation of Ref Nets for Double ODU connections	1 No	4800
250	ELEC-5.6.4	Supply and Installation of Ref Nets for Triple ODU connections	1 No	9200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
251	ELEC-5.6.5	Supply and Installation of Multi Connection Joint / Ref Nets for IDUs	1 No	4200
252	ELEC-5.6.6	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: Mitsubishi /DAIKIN/Toshiba/ O General		
		Type Of Units :Hi Wall type units		
	a	1.0 TR	1 No	27500
	b	1.6 TR	1 No	30000
	c	2.0 TR	1 No	31000
	ELEC-5.6.7	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung		
		Type Of Units :Hi Wall type units	1 No	25300
	a	1.0 TR	1 No	27600
	b	1.6 TR	1 No	28500
	c	2.0 TR	1 No	
253	ELEC-5.6.8	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: Mitsubishi /DAIKIN/Toshiba /O General		
		Type Of Units :Roundflow/4 way Cassette units		
	a	1.0 TR	1 No	36600
	b	1.5/1.6 TR	1 No	41000
	c	2.0 TR	1 No	42000
	d	2.6 TR	1 No	46000
	e	3.2 TR	1 No	47000
	f	4.0 TR	1 No	48000
	g	4.5 TR	1 No	50300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-5.6.9	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung		
		Type Of Units :Roundflow/4 way Cassette units		
	a	1.0 TR	1 No	33600
	b	1.5/1.6 TR	1 No	37700
	c	2.0 TR	1 No	38600
	d	2.6 TR	1 No	42300
	e	3.2 TR	1 No	43200
	f	4.0 TR	1 No	44000
	g	4.5 TR	1 No	46200
254	ELEC-5.6.10	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: Mitsubishi /DAIKIN/Toshiba/ O General		
		Type Of Units :High Static Duct Units		
	a	3.2 TR	1 No	50300
	b	4.0 TR	1 No	52800
	c	4.5 TR	1 No	62500
	d	5.5 TR	1 No	84200
	e	6.3 TR	1 No	88700
	f	8.0 TR	1 No	93500
	ELEC-5.6.11	Supply of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls and duly wired, thermostatic control. Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung		
		Type Of Units :High Static Duct Units		
	a	3.2 TR	1 No	46000
	b	4.0 TR	1 No	48000
	c	4.5 TR	1 No	57500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	d	5.5 TR	1 No	77000
	e	6.3 TR	1 No	81000
	f	8.0 TR	1 No	86000
255	ELEC-5.6.12	Supply, Installation, Testing & Commissioning Simple wireless remote controller to control the IDUs with Machine coding, ON-OFF & Temp. setting of individual IDU and group of IDU.		1400
256	ELEC-5.6.13	Supply of Indoor Units consisting of 3/4 row deep DX coil, drain pan, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls, duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc. Makes: Mitsubishi /DAIKIN/Toshiba/ O General		
		Type of Units : Ductable TFA Units		
	a	4TR	1 No	82650
	b	6TR	1 No	99600
	c	8TR	1 No	105000
	ELEC-5.6.14	Supply of Indoor Units consisting of 3/4 row deep DX coil, drain pan, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls, duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc. Makes: LG/Voltas/Blue star/Hitachi/Carrier/Samsung		
		Type of Units : Ductable TFA Units		
	a	4TR	1 No	76000
	b	6TR	1 No	91000
	c	8TR	1 No	96500
		HVAC-LOW SIDE WORKS		
257	ELEC-5.6.15	Lifting, shifting, positioning, Installation and testing of the ODU's including all accessories with Vibration Isolators for ODU's etc., complete		
	a	6 to 8 HP	1 No	7000
	b	10 to 12 HP	1 No	10000
	c	14 to 20 HP	1 No	12000
258	ELEC-5.6.16	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
		Type Of Units :Hi Wall Units	1 No	
	a	1.0 TR to 2.0 TR	1 No	1200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
259	ELEC-5.6.17	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
		Type Of Units :Round Flow /4 way Cassette units		
	a	1.0 TR to 2.0 TR	1 No	1500
	b	2.6 TR to 4.5 TR	1 No	2500
260	ELEC-5.6.18	Lifting Shifting, Positioning ,Installation Testing and commissioning of the following indoor units with including all required accessoires etc complete.,		
		Type Of Units :High Static Duct Units		
	a	3.2 TR to 4.5 TR	1 No	3000
	b	5.5 TR to 8.0 TR	1 No	4500
261	ELEC-5.6.19	Installation, testing & commissioning of Indoor Units consisting of 2/3/4 row deep DX coil, filter, blower section and drive arrangement, initial charge of refrigerant & oil, integral refrigerant piping, electronic expansion valve, electrical panel with controls duly wired, thermostatic control corded/cordless remote controller supports for indoor units etc.		
		Type of Units : Ductable TFA Units		
	a	4 TR to 8 TR	1 No	4500
		Refrigerant Piping		
262	ELEC-5.6.20	Supply, installation and testing of Refrigerant Piping consisting of Copper tubes of wall thickness 20G/22G inclusive of Suction Gas Piping & Fittings,Liquid Line Piping & Fittings , with class "O" nitrile rubber Insulation with finish as required.The piping to be mounted & supported properly with suitable size of clamp,M.S. hanger, tray etc., as required at site Makes:Totaline/Mandav/Mexico		
		The insulation shall be closed cell/cross linked elastomeric Nitrile rubber of thickness 13/19 mm. The insulation thickness upto 19.1 mm dia pipe shall be 13 mm and above 19.1 mm dia, the insulation thickness shall be 19 mm.		
		Testing of refrigerant piping and procedure shall be done as per Manufacturer's recommendations		
	a	34.9 mm dia	Rmt	1150
	b	28.6 mm dia	Rmt	1050
	c	22.2 mm dia	Rmt	950
	d	19.1 mm dia	Rmt	850
	e	15.9 mm dia	Rmt	750

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	12.7 mm dia	Rmt	650
	g	9.5 mm dia	Rmt	480
	h	6.4 mm dia	Rmt	420
263	ELEC-5.6.21	Supply, installation and testing of UPVC Drain Piping with 6mm Nitrile Rubber class "O" Insulation covered with interwoven glass cloth protection. Necessary pipe fittings(Including enlarger, bends, T Joints etc) has to be considered to connect the UPVC drain pipe to cast iron floor trap.		
	a	25 mm dia	Rmt	150
	b	32 mm dia	Rmt	180
	c	40mm dia	Rmt	220
	d	50 mm dia	Rmt	260
		Supply of PVC insulated 2 core 1.5 Sqmm sheathed flexible copper cable for voltage up to 1100V as per IS 694/1990. (Covered in Section -1)	Rmt	
264	ELEC-5.6.22	Supply and transportation of R 410A Gas for the system.	kg	1050
265	ELEC-5.6.23	Providing Pressure testing of entire system with Nitrogen and vaccuming nitrogen for all indoor and outdoor units. The pressure testing shall be done as per OEM recommendation.	HP	1250
266	ELEC-5.6.24	Supply, installation, testing & commissioning of Stand alone, intelligent Touch controller with Display for controlling the indoor & outdoor units from a Remote place for all the circuits.	No	74000
267	ELEC-5.6.25	Supply, installation, testing & commissioning of GSS Ducting with required angle flanges & installation materials such as heavy duty supports by anchor fasteners etc as required as per IS 655 /SMACNA Standards Makes:TATA/Jindal		
	a	24 G	sqm	825
	b	22 G	sqm	925
	c	20 G	sqm	1100
	d	18 G	sqm	1200
		Thermal Insulation		
268	ELEC-5.6.26	Supply & Fixing of Duct Thermal Insulation applied outside of the duct work with All. backed Closed cell nitrile/ Cross linked foam duly fixed with adhesive and tapes.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		13 mm Thick	sqm	580
		Accoustic Insulation		
269	ELEC-5.6.27	Supply & Fixing of Duct Accoustic Insulation applied inside of the duct work with All. backed Open cell nitrile duly fixed with adhesive and tapes		
	a	10/15 mm Thick	sqm	900
270	ELEC-5.6.28	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for supply with removable core type with collar damper	sqm	8500
271	ELEC-5.6.29	Supply, Installation, Testing and commissioning of extruded Aluminum powder coated grills/ diffusers for retrun with removable core type without collar damper	sqm	6200
272	ELEC-5.6.30	Supply , Erection and Testing of GI Opposed blade Volume control dampers made out of 18G frame and 20G blades	sqm	5400
273	ELEC-5.6.31	Supply , Erection of Fresh air louver with extruded aluminium grill with SS wire mesh and GI volume control damper with 20 micron filters	sqm	4300
274	ELEC-5.6.32	Supply and Installation of Underdeck Insulation with 50 mm thk EPS, 48 Kg/Cum density, factory laminated faced alumimun foil coreved with GI cross wiring.	sqm	650
275	ELEC-5.6.33	Supply and Installation of GI Fusible link Fire dampers 500 mm long with sleeve as per UL 555 Standard,Minimum width of damper shall be 225 mm.	sqm	6500
276	ELEC-5.6.34	Supply and Installation of GI backdraft dampers as per UL 555 Standard,	sqm	5400
277	ELEC-5.6.35	Supply, installation and testing of Canvas connection for the Treated Fresh Air units to the duct	each	2200
	5.7	EVAPORATIVE AIR COOLING SYSTEM		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
278	ELEC-5.7.1	Supply of single phase evaporative air cooling unit with a capacity of 9000 CFM consisting cabinet and water tank made of polypropylenematerial, blower water pump of 40W, single phase 1.20 KW motor axial type fan with variable speed, 20 micron filtration, noise levelless than 78 dBA with auto cleaning,humidity control and water lack protection etccomplete. Makes: Cool Breeze / Breeze Air	1 No	105000
279	ELEC-5.7.2	Supply of Three phase evaporative air cooling unit with a capacity of 12000 - 15000 CFM consisting cabinet and water tank made of polypropylene material, blower water pump of 40W, Three phase 3.0 KW motor axial type fan with 2 speed, 20 micron filtration, noise level less than 78 dBA with auto cleaning and water lack protection etc complete. Makes: Cool Breeze /Breeze Air	1 No	180000
280	ELEC-5.7.3	Supply and fixing of 13mm thick Nitrile insulation for out door unit.	1 sft	55
281	ELEC-5.7.4	Supply and fixing of 50mm thick glasswool of 24 kg density with alluminium foil insulation for indoor duct.	1 sft	58
282	ELEC-5.7.5	Supply and fixing of angular iron frame with 2 coats of zincromat red oxide for installation of air cooling unit	1 No	5000
283	ELEC-5.7.6	Installation and commissioning charges for air cooling unit	1 No	3600
	5.8	STABILIZERS		
284	ELEC-5.8.1	Supplly of Stabilizer. Guard / Real Guard / Uni Stab / ITL.		Makes: V-
	a	0.5 KVA	1 No	820
	b	1.0 KVA	1 No	1450
	c	3.0 KVA	1 No	2000
	d	4.0 KVA	1 No	2700
	e	5.0 KVA	1 No	3300
285	ELEC-5.8.2	Supplly of Stabilizer. Keeline / Soft Line		Makes:
	a	0.5 KVA	1 No	675

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	1.0 KVA	1 No	1300
	c	3.0 KVA	1 No	1700
	d	4.0 KVA	1 No	2500
	e	5.0 KVA	1 No	3100
	5.9	REPAIRING OF FANS, COOLERS, PUMPS, MOTORS, FRIDGES AND AIRCONDITIONERS		
286	ELEC-5.9.1	Rewinding of ceiling fan motor (starting and running winding) including all necessary material. The motor is to be wound taking no. of coils, turns and pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required. (New model ceiling fan)		
	a	900/1200 mm sweep	1 No	325
	b	1400 mm sweep	1 No	390
287	ELEC-5.9.2	Charges for oiling, greasing, overhauling of ceiling fan, table fan, pedestal fan irrespect to the size of fan including removing,refixing of fan from site and testing etc. as required	1 No	150
288	ELEC-5.9.3	Providing and Replacement of ball bearing of ceiling/ exhaust fan as required. (NBC/ SKF)	1 No	175
289	ELEC-5.9.4	Providing and Replacement of Gun metal bush of ceiling/ exhaust/cooler fan/ as required	1 No	150
290	ELEC-5.9.5	Servicing and overhauling of 20" sweep desert cooler including oiling, greasing, painting of tank from inside with rubber paint after properly desmantling each assembly and refixing the same as required.	1 No	250
291	ELEC-5.9.6	Painting of desert cooler with two coats of rubber paint inside of water tank and two coat of synthetic enamelled paint on both side of cooler body, fan body, grills etc.after cleaning with sand paper, complete in all respect as required	1 No	450
292	ELEC-5.9.7	Replacement of cooler pads (heavy) set of 3 no. of size 25" x 27"	1 No	150
293	ELEC-5.9.8	Supply and fixing of Brass float valve of weighing approx. 250 gm, 8" long rod,PVC ball of 4" dia. For desert coler as required.	1 No	200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
294	ELEC-5.9.9	Supply and fixing of adjustable M.S.grill 20/22 gauge of size approx. 24" x 26" including painting etc. as required	1 No	360
295	ELEC-5.9.10	Spray painting of ceiling fan of size 900/1200/ 1400 mm with two coats of white/ brown enamelled paint after cleaning with sand paper. Filling etc. as required.	1 No	175
296	ELEC-5.9.11	Rewinding of Heavy duty Exhaust fan motor including all necessary material,The motor is to be wound taking no. of coils,turns and pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required.		
	a	300/ 380 mm sweep	1 No	550
	b	450 mm sweep	1 No	650
	c	600 mm sweep	1 No	1100
297	ELEC-5.9.12	Rewinding of 400 mm table fan/pedestal fan motor including all necessary material,The motor is to be wound taking no. of coils,turnsand pitch as it was originally wound with required size super enamelled wire with 'E' class insulation material and making connections etc. as required.	1 No	350
298	ELEC-5.9.13	Rewinding of single phase motor of 1400 RPM including all necessary material and of the same characteristics as original with required size of super enamelled wire 'E' class insulation material and testing etc. as required.	1 No	
	a	0.5 H.P. To 1.00 H.P.	1 No	700
	b	2.0 H.P	1 No	1150
299	ELEC-5.9.14	Rewinding of three phase motor of 1400 to 2800 RPM including all necessary material and of the same characteristics as original with required size of super enamelled wire 'E' class insulation material and testing etc. as required.		
	a	3.0 H.P.	1 No	1700
	b	5.0 H.P.	1 No	2400
	c	7.5 H.P	1 No	2600
	d	10.0 H.P	1 No	3500
	e	12.5 H.P	1 No	3700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	15.0 H.P	1 No	4500
300	ELEC-5.9.15	Supply and charging of fresh refrigerant and testing of performance of air conditioner/ fridge/ water cooler of following capacity including capillary and strainer/ filter.		
	a	1.0 TR Window/ Split A.C	1 No	1900
	b	1.5 TR Window/ Split A.C	1 No	2100
	c	2.0 TR Window/ Split A.C	1 No	2500
	d	25/50 / 40/80 Ltr. Water cooler	1 No	2000
	e	60/120 Ltr. Water cooler	1 No	2300
	f	150/150 Ltr. Water cooler	1 No	2800
	g	165 Ltr Refrigerator	1 No	1250
	h	200/210 Ltr Refrigerator	1 No	1800
	i	286/310 Ltr Refrigerator	1 No	2100
301	ELEC-5.9.16	Replacement of defective compressor by company repaired compressor of fridge./water cooler including testing etc. as required. (Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas)		
	a	25/50 / 40/80 Ltr. Water cooler	1 No	6000
	b	60/120 Ltr. Water cooler	1 No	7600
	c	150/150 Ltr. Water cooler	1 No	9000
	d	165 Ltr Refrigerator (Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas/ BPL/ Zenith/ Kelvinator)	1 No	3100
	e	200/210 Ltr Refrigerator (Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas/ BPL/ Zenith/ Kelvinator)	1 No	3800
	f	286/310 Ltr Refrigerator (Carrier/ Kirlosker/ Techam-Shah/ Shriram/ Voltas/ BPL/ Zenith/ Kelvinator)	1 No	4300
302	ELEC-5.9.17	Supply of brandnew Rotary type sealed compressor for Air conditioner Makes: DAIKIN/LG/Carrier/Kirloskar/Techam-shah		
	a	1.0/1.5 TR	1 No	9500
	b	2 TR	1 No	10450
303	ELEC-5.9.18	Replacement of condensing/ cooling coil of copper fins for following capacity A.C./ Water cooler/ Fridge as required		
	a	1.0 TR A.C.	1 No	3565
	b	1.5 TR A.C.	1 No	4025

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	2.0 TR A.C.	1 No	4485
	d	25/50 / 40/80 Ltr. Water cooler	1 No	2400
	e	60/120 Ltr. Water cooler	1 No	3500
	f	150/150 Ltr. Water cooler	1 No	3500
	g	165 Ltr Refrigerator	1 No	1100
	h	200/210 Ltr Refrigerator	1 No	1200
	i	286/310 Ltr Refrigerator	1 No	1550
304	ELEC-5.9.19	Replacement of overload protection of A.C./ Water cooler as required	1 No	500
305	ELEC-5.9.20	Replacement of thermostat of A.C./ Water cooler/fridge as required.	1 No	450
306	ELEC-5.9.21	Replacement of starting relay of A.C/water cooler/fridge compressor as required	1 No	490
307	ELEC-5.9.22	Spray painting of complete fridge (inside and outside) of 165/ 200/286/310 Ltr. Capacity	1 No	1600
308	ELEC-5.9.23	Supply and fixing of 230V/ 275V, 50Hz rating		
		Starting capacitor		
	a	20-60 micro farad	1 No	200
	b	80-150 micro farad	1 No	400
		Running capacitor	1 No	
	a	2.5/3.15/4.0/6.0 micro farad	1 No	75
	b	8.0 micro farad	1 No	110
	c	10.0 micro farad	1 No	150
	d	15.0 to 36.0 micro farad	1 No	350
309	ELEC-5.9.24	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of split AC unit.	1 Set	1200
310	ELEC-5.9.25	Providing 2 runs of Copper tubes for suction and liquid between indoor and outdoor unit for split/Casseete Air- Conditioner including foaming etc., complete. Make: Copper: Totaline /Nippon /Mandev. Nitrile Insulation: Kflex/ Totaline /Armaflex		
	a	1/2" x 1/4"	1 Mtr	810
	b	5/8" x 1/4"	1 Mtr	890

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	3/4" x 3/8"	1 Mtr	975
	d	7/8" x 1/2"	1 Mtr	1100
	e	1 1/8" x 5/8"	1 Mtr	1350
311	ELEC-5.9.26	Multi speed Fan Motor suitable for 1.0 / 1.5 / 2.0 Ton Window A.C.Unit Makes : Crompton / AU.	1 No	1425
312	ELEC-5.9.27	Air filter suitable for 1.50 Ton Window A.C.Unit P.V.C. / NYLON.	1 No	250
313	ELEC-5.9.28	Air filter suitable for 1.50 Ton Split A.C.Unit P.V.C. / NYLON.	1 No	430
314	ELEC-5.9.29	Fan blade for 1.0 / 1.5 Ton A.C.Machine.	1 No	500
315	ELEC-5.9.30	Installation of Split Air Conditioners.	1 No	1600
316	ELEC-5.9.31	Removing of existing Split Air Conditioners without damaging to copper pipe.	1 No	600
317	ELEC-5.9.32	Installation of Cassette type Split Air Conditioners.	1 No	4000
318	ELEC-5.9.33	Installation of Tower type Split Air Conditioners.	1 No	3000
319	ELEC-5.9.34	Supply, Fabrication of 1set MS bracket suitable for fixing out door unit of 3.5 /4.50 TR Casseete AC unit.	1 Set	1700
		SECTION 6		
	6.1	SWAGED / OCTAGONAL POLES AND GARDEN POSTS		
320	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	67
321	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	61
322	ELEC-6.1.3	Supply of different sizes of M. S. Pipe brackets (Rate per K.G)	1 Kg	61

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		OCTOGONAL POLES		
323	ELEC-6.1.4	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged 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/Laasma /Transrail/Utkarsh/ Skipper	1 No	11760
324	ELEC-6.1.5	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged 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/Laasma /Transrail/Utkarsh/ Skipper	1 No	17000
325	ELEC-6.1.6	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged 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/Laasma /Transrail/Utkarsh/ Skipper	1 No	18690

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
326	ELEC-6.1.7	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet 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/Laasma /Transrail/Utkarsh/ Skipper	1 No	27000
		DECORATIVE DRAGON TYPE BRACKET WITH POLE		
327	ELEC-6.1.8	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitableboards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180KMPH for 9 Mtrs Mounting height Pole having dimensions Bttom 185 mm., Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including Supply of 1.5M Dragon typedecorative Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper		
	a	galvanised double arm with PU Painted bracket.	1 No	26600
	b	galvanised Single arm with PU Painted bracket.	1 No	22800
	c	Double arm GalvanizeFinished bracket	1 No	22500
	d	Single arm GalvanizeFinished bracket	1 No	20400
328	ELEC-6.1.9	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs Mounting height Pole having dimensions Bottom 185 mm., Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x	1 No	DELETED

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		1000long 'J' bolts along with templates. Including Supply of 1.5M Dragon type decorative Makes : Bajaj / Valmont /Transrail/Utkarsh/ Skipper/ /United		
329	ELEC-6.1.10	Fabrication, Transportation and supply of hot-dip PU Paint finish Curved Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs Mounting height Curved Pole having dimensions Bottom 180 mm,. Top 85mm with 3mm thick, base plate 400 x 400 x 20mm and 4 Nos of M24 x 750 long 'J' bolts along with templates. Including Supply of 0.2M long Single arm bracket. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper		
	a	Galvanized	1 No	22300
	b	Galvanized PU paint finshed	1 No	30200
		POLE BRACKETS		
330	ELEC-6.1.11	Fabrication, Transportation and supply of 1.0 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	1300
331	ELEC-6.1.12	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	1720
332	ELEC-6.1.13	Fabrication, Transportation and supply of 1 Mtr length Double Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	1610
333	ELEC-6.1.14	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm Bracket made with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	2900

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
334	ELEC-6.1.15	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/Laasma /Transrail/Utkarsh/ Skipper	1 No	4800
335	ELEC-6.1.16	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/Laasma /Transrail/Utkarsh/ Skipper	1 No	9100
336	ELEC-6.1.17	Fabrication, Transportation and supply of of 1.5mtrs sword type or any decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	5300
337	ELEC-6.1.18	Fabrication, Transportation and supply of of 1.5mtrs sword type or any decorative Single arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	4100
338	ELEC-6.1.19	Fabrication, Transportation and supply of of 1.0mtrs sword type or any decorative double arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	4300
339	ELEC-6.1.20	Fabrication, Transportation and supply of of 1.0 mtrs sword type or any decorative Single arm bracket with dooms either sides complete with all accessories with MS galvanized 40mm / 50mm dia Pipe. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	3600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		HIGH MAST POLES		
340	ELEC-6.1.21	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 M24 x 800 mm foundation bolts of required quantity, suitable for 6 luminaires with GLS type aviation twin lamp. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	105000
341	ELEC-6.1.22	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 M24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	138000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
342	ELEC-6.1.23	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 460mm 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 670mm 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 M30 x 750 mm foundation bolts of required quantity with GLS type aviation twin lamp. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/ Skipper	1 No	178500
		FEEDER PILLAR BOXES		
343	ELEC-6.1.24	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F of Legrand / Schnieder / L&T make 40-63A FP MCB, 6 Nos SP MCB's, din chanel, bus bars, 6 Sqmm 3 core copper cable for internal wiring, contactor, connectors and provision for energy meter etc., complete for finished item of work.	1 No	18300
344	ELEC-6.1.25	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F of Legrand / Schnieder / L&T make 40-63A FP MCB, 9 Nos SP MCB's, din chanel, bus bars, 6 Sqmm 3 core copper cable for internal wiring , contactor, connectors and provision for energy meter etc., complete for finished item of work.	1 No	18900
		ERRECTION- HIGH MAST POLES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
345	ELEC-6.1.26	Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs high mast and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete.	1 No	28400
346	ELEC-6.1.27	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	35500
347	ELEC-6.1.28	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 M20 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	45600
348	ELEC-6.1.29	Supply of Sizes thermo plastic cable junction boxes with IP66/67 weather proof, for outdoor installation with konckouts for cable entry including terminals etc., complete (sizes in mm) Make : Hensel/Sadhrish		
	a	155 X 210 X 92	1 No	1650
	b	205 X 255 X112	1 No	2400
	c	225 X 295 X 122	1 No	8450
	d	255 X 600 X 170	1 No	9300
		FOUNDATION AND ERRECTION CHARGES OF POLES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
349	ELEC-6.1.30	Erection charges for 7.50 Mts long Octagonal pole on bridge kerb portion with 4 Nos, 8" Anchor bolts with chemical treatment with suitable "J" type bolts etc duly drilling holes to RCC slab with V.C.C. M.15 concrete for suitable base concreting with necessary steel reinforcement work and curing for 7 days etc. including cost and conveyance of all material and all labour charges etc.complete as directed by the department officers.	1 Job	4200
350	ELEC-6.1.31	Foundation and erection charges with special T&P, for 7.50 Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtr x 0.45Mtrs x1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.	1 Job	4900
351	ELEC-6.1.32	Foundation and erection charges with special T&P, for 9.00Mtrs / 10Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.60Mtr x 0.60Mtrs x 1.40 Mtr size M20 cc work vibrated concreting mixing with necessary steel (15kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc.complete.	1 Job	6600
352	ELEC-6.1.33	Foundation and erection charges with special T&P, for 12Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtr x 0.67Mtrs x 1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of	1 Job	8100

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		materials etc.complete.		
		GRP POLES		
353	ELEC-6.1.34	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 / Valmont/Sumip/Helipole		
	a	...do.... 3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	8500
	b	...do.... 4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	10800
	c	...do.... 6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	13500
	d	...do.... 8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	17400
	e	...do.... 9.00 Mtrs height, Bottom dia 210mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	19000
	f	...do.... 10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	27500
354	ELEC-6.1.35	Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete. Makes: Bajaj / Kemrock / Valmont/Sumip / Helipole		
	a	...do.... For 3.00 Mtrs Pole	1 No	1550
	b	...do.... For 4.00 Mtrs Pole	1 No	1550
	c	...do.... For 6.00 Mtrs Pole	1 No	1850
	d	...do.... For 8.00 Mtrs Pole	1 No	2150
	e	...do.... For 9.00 Mtrs Pole	1 No	4100
	f	...do.... For 10.00 Mtrs Pole	1 No	5100
	6.2	LT PANEL AND ACCESSORIES		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
355	ELEC-6.2.1	Supply Installation Testing and commissioning of free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by two coats of zinc/red oxide primer followed by Powder coated / epoxy / PU painted with phosphatisation in grey or required shade after rinsing. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 1.6mm up to 600mm length/width of any compartment and be of 2.0mm above 600mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer area on all sides shall be measured and panel to be fabricated from CPRI approved fabricator).	1 sqm	4250
356	ELEC-6.2.2	Supply and fixing of..... bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves		
	a	Electrolytic grade aluminium bus bar	kg	375
	b	Electrolytic grade copper bus bar	kg	750
357	ELEC-6.2.3	Supply and Fixing of (0-500) V range Volt meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Make: Conzerve/Elmeasure/Meco/HPL/L&T/socomec		
	a	Analog type (96 mm x 96 mm)	1 No	850
	b	Digital type	1 No	1900
358	ELEC-6.2.4	Supply and Fixing of CT operated direct reading type Ammeter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Make: Conzerve/Elmeasure/Meco/HPL/L&T/Schneider/AE/Socomec		
		Analog type (96 mm x 96 mm)		
	a	Below 500 A	1 No	850

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	b	Above 500A	1 No	850
		Digital type		
	c	Below 500 A	1 No	1900
	d	Above 500 A	1 No	1900
359	ELEC-6.2.5	Supply and Fixing of Current Transformer , with all necessary support in existing panel including connection etc. as required Make: Kappa/L&T/Seimens/C&S/Schneider		
	a	up to 150 / 5 Ratio , 5 VA , class 1 accuracy	1 No	475
	b	from 200 / 5 to 400/5 Ratio , 10 VA , class 1 accuracy	1 No	700
	c	from 500 / 5 to 1600/5 Ratio , 15 VA , class 1 accuracy	1 No	950
	d	from 2000 / 5 to 3200 /5 Ratio , 15 VA, class 1 accuracy	1 No	1500
360	ELEC-6.2.6	Supply and Fixing of selector switch for voltmeter (4 position) including making connection etc. as required Make: L&T /C&S/SALZER/HPL	1 No	340
361	ELEC-6.2.7	Supply and Fixing of CT linked selector switch of 10 A for Ampere meter (4position) including making connection etc. as required Make: L&T /C&S/SALZER/HPL	1 No	375
362	ELEC-6.2.8	Supply and fixing of single phase Electronic energy Meter,.....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/L&T.		
	a	Single Phase	1 No	1000
	b	Three Phase	1 No	2800
363	ELEC-6.2.9	Supply and Fixing of 240/220 V, LED (22.5 mm dia) Pilot lamp with integral circuit, terminal block, including connection etc. as required		
	a	Red/yellow/Green colour	1 No	120
	b	Blue colour	1 No	200
364	ELEC-6.2.10	Supply and Fixing of Tap-off boxes suitable for following size of approved design		
	a	up to 95 sq. mm.(3.5/4 core)	1 No	400
	b	from 120 sq. mm. to 185 sq. mm.(3.5/4 core)	1 No	700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
365	ELEC-6.2.11	Supply and Fixing of energy analyser (multy function energy meter) with LCD/LED display capable of minimum 20 numbers electrical parameters display with 1A/5A CT input for LV/ HV network, RS 485 communication port etc. complete in all respect.	1 No	10500
366	ELEC-6.2.12	Supply Installation Testing and commissioning of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 in existing panel or parallel with load terminals , the capacitor shall be fitted with discharge resistors, pressure sensitive disconnecter (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR. including making connections with suitable capacity conductors/cables testing as required.Makes: L&T/Seimens/Epcos/Schneider/Havells		
	a	Standard duty Single phase 250 V / Three phase 440 V, 50 Hz capacitor (Bank)	1 KVAR	200
	b	Heavy duty Three phase 440 V , 50 Hz capacitor (Bank)	1 KVAR	300
367	ELEC-6.2.13	Supply Installation Testing and commissioning of microprocessor based intelligent power factor correction relay having sensitivity up to 50 milli Amp secondary current and following way, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required Makes: L&T/Seimens/Epcos /Schneider/ ABB/Neptune		
		6 to 14 stage - sensitivity upto 50 milli Amp	1 No	18500
368	ELEC-6.2.14	Supply and Fixing of Cam operated rotary switches on existing panel with 2 way and off position makes: L&T (SALZER)/ABB/Schneider/Seimens/C&S/HPL		
		one pole		
	a	16 A	1 No	350
	b	32 A	1 No	450
	c	63 A	1 No	650
		Two pole		
	d	16 A	1 No	400
	e	32 A	1 No	530
	f	63 A	1 No	875
		Three pole		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	16 A	1 No	500
	h	32 A	1 No	700
	i	63 A	1 No	1250
		Four pole		
	j	16 A	1 No	500
	k	32 A	1 No	750
	l	63 A	1 No	1400
369	ELEC-6.2.15	Supply and Fixing of ac operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, Din rail mounting type including making connections, testing etc. as required Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells		
		3 pole AC3 Rating contactors		
	a	Up to 12 Amp	1 No	800
	b	13 to 32 Amp	1 No	1325
	c	35 to 40 Amp	1 No	1600
	d	41 to 50 Amp	1 No	3500
		4 pole AC 1 Rating contactors		
	e	Up to 25 Amp	1 No	1000
	f	26 to 32 Amp	1 No	1200
	g	33 to 45 Amp	1 No	2000
	h	46 to 60 Amp	1 No	4200
370	ELEC-6.2.16	Supply and Fixing of 440 Volt 3 pole capacitor (AC 6 B) duty contactor with 3 no. early make and post break auxiliary contacts in series with quick dischargedamping resistors/ reactors to limit the inrush current ,conforming to IS:13947-4-1/IEC:947-4-1, Din rail mounting type ncluding making onnections, testing etc. as required. suitable for following capacity capacitor bank Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells		
	a	Up to 6 KVAR	1 No	1600
	b	7 to 10 KVAR	1 No	1800
	c	11 to 20 KVAR	1 No	2700
	d	21 to 25 KVAR	1 No	3600
	e	30 KVAR	1 No	5200
	f	40 KVAR	1 No	8300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	g	50 KVAR	1 No	9600
371	ELEC-6.2.17	Supply and Fixing of thermal over load relay with built in single phase protection and having at least 1NO & 1NC contacts, manual /auto reset facility including making connection testing etc. as required Make:Seimens/ABB/Schneider/L&T/C&S/HPL/Havells		
	a	Up to 14 A	1 No	1200
	b	15 to 20 A	1 No	1600
	c	21 to 30 A	1 No	2300
	d	31 to 40 A	1 No	2600
372	ELEC-6.2.18	Supply and Fixing of push button actuators and integral contact block of dia. 22.5 mm including making connection etc. as required Make:Seimens/ ABB/ Schneider/L&T/C&S/HPL		
	a	Non luminous type	1 No	95
	b	Luminous type	1 No	130
	6.3	SUB STATION EQUIPMENT AND TRANSFORMERS		
373	ELEC-6.3.1	Supply, Installation, Testing & Commissioning of HT metering cubical panel as approved By DISCOMs fabricated out of 14 SWG CRCA sheet steel in two compartment & MS angle of size 60mmX6mm having provision for Following:	1 No	24000
		(i) Provision for fixing Trivector Meter (To be supplied by DISCOMs)		
		(ii) Provision for fixing of combined CT PT Set (To be supplied by DISCOMs)		
		(iii) TT Block		
		(iv) 6mm Bakelite sheet on all sides.		
	ELEC-6.3.1a	Supply, Transportation, Installation and Commissioning of 11 KV, 630A, 25 KA Outdoor type Load Break Switch as detailed below with suitable CC foundation and 2 Nos GI pipe earthing with brick masonry chambers etc complete for finished item of work. a) Load break switch: 11KV,630A, 25 KA with fuse trip, earth switch, manually operated spring chargesd mechanis with 2 no + 2 NC. b) HT HRC fuse upto 63A - 3 nos. c) Bus bar connection. d) Indication lamps. e) Manual trip Push button. Make:ABB/ Megawin/Amara Raja/L&T		120000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		33 KV HT Panel (drawout type)		
374	ELEC-6.3.2	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, 33 KV 800A VCB Panel with 3 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 31.5kA/3sec short circuit withstand capacity & 31.5kA/1sec Internal Arc capacity. Switchgear Panel enclosure of sheet steel preferably Aluzinc, dust tight, vermin proof, totally enclosed cubicle floor mounting, free standing type with single break, horizontally drawout type breaker with trip free mechanism as per latest standard i.e. IS/IEC 62271-200 as amended up to date and as per Technical specifications, IP4X for VCB Panel enclosure. Switchgear Panel shall be electrically & mechanically interlocked as per IEC 62271-1, full voltage insulated copper Busbar with heat shrinkable sleeving, complete with suitable metering & protection devices, breaker featured with mechanical ON-OFF indicator with hand trip device and all accessories such as shunt trip coil, motorized & manually operated spring charging mechanism, emergency trip push buttons, auxiliary switch of 2NO + 2NC, interconnections, space heaters, panel earthing etc. and equipped with following switchgear and accessories including connection suitable for 3x185 to 3x 400 sqmm XLPE 33 kV cable (cable entry from bottom) to be connected through heat shrinkable jointing material etc as required. (Note - Cost of end termination not included in this item.) Makes:ABB/Schneider/Seimens/Kirloskar/Amara Raja/Megawin/L&T	1No	2655000
		<u>INCOMER 1 No. each comprising the following</u>		
		1 No. 800 Amp. VCB. 31.5KA		
		1 No. Integral Earth switch for line side earthing		
		3 No. dual core CTs 600A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		3 No. Cast Resin 33000V/v3/110V/v3/110V/v3 PT Class 0.5/3P accuracy and 30VA burden max with and protection fuses / MCB.		
		1 No. Digital voltmeter with selector switch.		
		1 No. Digital Ammeter with selector switch.		
		1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
		1 No. Multi-function meter.		
		Set of MCBs for Panel AC/DC		
		Set of MCBs for Main AC/DC		
		Set of Indication lamps LED types		
		TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
		<u>OUTGOING 2 Nos. each comprising the following</u>		
		1 No. 800 Amp. VCB.31.5KA		
		1 No. Integral Earth switch for line side earthing		
		3 No. dual core CTs 300A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
		1 No. Digital Ammeter with selector switch.		
		1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
		Set of MCBs for Panel AC/DC		
		Set of Indication lamps LED types		
		TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
		11KV HT Panel (drawout type)		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
375	ELEC-6.3.3	Supply, Installation, Testing and Commissioning of indoor type floor mounted metal clad, 11 KV 800A VCB Panel with 3 Nos. VCBs suitable for 50Hz 3-phase system, suitable for 26.3kA/3sec short circuit withstand capacity & 26.3kA/1sec Internal Arc capacity. Switchgear Panel enclosure of sheet steel preferably Aluzinc, dust tight, vermin proof, totally enclosed cubicle floor mounting, free standing type with single break, horizontally drawout type breaker with trip free mechanism as per latest standard i.e. IS/IEC 62271-200 as amended up to date and as per Technical specifications, IP4X for VCB Panel enclosure. Switchgear Panel shall be electrically & mechanically interlocked as per IEC 62271-1, full voltage insulated copper Busbar with heat shrinkable sleeving, complete with suitable metering & protection devices, breaker featured with mechanical ON-OFF indicator with hand trip device and all accessories such as shunt trip coil, motorized & manually operated spring charging mechanism, emergency trip push buttons, auxiliary switch of 2NO + 2NC, interconnections, space heaters, panel earthing etc. and equipped with following switchgear and accessories including connection suitable for 3x185 to 3x 400 sqmm XLPE 11kV cable (cable entry from bottom) to be connected through heat shrinkable jointing material etc as required. (Note - Cost of end termination not included in this item.) Makes:ABB/Schneider/Seimens/Kirloskar/Amara Raja/Megawin/L&T	1No	1345000
		<u>INCOMER 1 No. each comprising the following</u>		
		1 No. 800 Amp. VCB. 26.3KA		
		1 No. Integral Earth switch for line side earthing		
		3 No. dual core CTs 600A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		3 No. Cast Resin 11000V/v3/110V/v3/110V/v3 PT Class 0.5/3P accuracy and 30VA burden max with and protection fuses / MCB.		
		1 No. Digital voltmeter with selector switch.		
		1 No. Digital Ammeter with selector switch.		
		1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
		1 No. Multi-function meter.		
		Set of MCBs for Panel AC/DC		
		Set of MCBs for Main AC/DC		
		Set of Indication lamps LED types		
		TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
		<u>OUTGOING 2 Nos. comprising the following</u>		
		1 No. 800 Amp. VCB. 26.3KA		
		1 No. Integral Earth switch for line side earthing		
		3 No. dual core CTs 300A/1/1A of 7.5VA burden max and accuracy Class 0.5 for metering and class 5P10 for protection		
		1 No. Digital Ammeter with selector switch.		
		1 No. Microprocessor based numerical relays with O/L, E/F and S/C protection with Integrated Arc sensing feature alongwith trip/lockout / antipumping / aux. relays.		
		Set of MCBs for Panel AC/DC		
		Set of Indication lamps LED types		
		TNC Switch, L-R Switch, Pushbuttons for ON-OFF		
		Oil Immersed TRANSFORMERS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
376	ELEC-6.3.4	Supply and Transportation of copper wound Transformers 33/0.433 KV , Three Phase, 50 Hz, DYN 11, ONAN type , Standard accessories, winding temperature rise of 45°C/40°C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 33 KV as per energy efficiency level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC) etc., complete and as per the following continuous rating Make:ABB/ALSTOM/SEIMENS/Kirloskar/Voltamp/ Esennar/KPEL		
	a	630 KVA	1 No	980000
	b	1000 KVA	1 No	1250000
	c	1250 KVA	1 No	1500000
	d	1600 KVA	1 No	1860000
	e	2000 KVA	1 No	2300000
377	ELEC-6.3.5	Supply and Transportation of ISI marked copper wound Transformers 11/0.433 KV , Three Phase, 50 Hz, DYN 11, ONAN type , Standard accessories, winding temperature rise of 45°C/40°C first fill oil, having permissible total loss values not exceeding 7.5%of the maximum total loss values for 11 KV as per Energy Efficiency Level - 2 at basic Insulation level conforming to ISS 2026 (Part- I to Part - II), latest ammended and IS 1180 Part-I : 2014 described as above with Cable box on HV side and Bus duct on LV Side , ON load Tap changer(OLTC) +10% to -10%, etc., complete and as per the following continuous rating Make:Schneider/Kirloskar/Voltamp/ Esennar/ Toshiba/ KPEL/ Powertech		
	a	100 KVA	1 No	325500
	b	160 KVA	1 No	550000
	c	250 KVA	1 No	650000
	d	315 KVA	1 No	800000
	e	500 KVA	1 No	1050000
	f	630 KVA	1 No	1130000
	g	1000 KVA	1 No	1480000
		Dry Type transformers		
378	ELEC-6.3.6	Supply ,Transportation of cast Resin (Dry Type) indoor type copper double wound 33KV/0.433 KV , Three Phase 50 Hz Transformers desinged and manufactured as per IS 11171/IEC 60726 , ANSI and NEMA Standards with all standard fittings,connected Delta on Primary side and Star on Secondary side with additional neutral brought out on load side 33000/433V with HV off load tap changing +5% to -15% temperature rise by the resistance 90 degrees with terminal arrangement Cable box on HV side and Bus duct on LV Side with off circuit Tap links etc.,, complete Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Voltamp/ Esennar		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	1000 KVA	1 No	2650000
	b	1250 KVA	1 No	3300000
	c	1600 KVA	1 No	3990000
	d	2000 KVA	1 No	4800000
	e	2500 KVA	1 No	5400000
379	ELEC-6.3.7	Supply ,Transportation of cast Resin (Dry Type) indoor type copper double wound 11KV/0.433 KV , Three Phase 50 Hz Transformers desinged and manufactured as per IS 11171/IEC 60726 , ANSI and NEMA Standards with all standard fittings,connected Delta on Primary side and Star on Secondary side with additional neutral brought out on load side 11000/433V with HV off load tap changing +5% to -15% temperature rise by the resistance 90 degrees with terminal arrangement Cable box on HV side and Bus duct on LV Side , with off circuit Tap links etc.,, complete . Make:ABB/ALSTOM/SEIMENS/Crompton/Kirloskar/Voltamp/ Esennar		
	a	250 KVA	1 No	651000
	b	315 KVA	1 No	756000
	c	500 KVA	1 No	918000
	d	630 KVA	1 No	1102500
	e	750 KVA	1 No	1260000
	f	1000 KVA	1 No	
	6.4	MAINTENANCE AND REPAIRS OF TRANSFORMERS		
380	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 ON, OFF mechanism etc done with only manufacturing companies	1 No	5000
381	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	3000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
382	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	4500
383	ELEC-6.4.4	Testing of Transformer oil for dielectric breakdown strength.	1 No	600
384	ELEC-6.4.5	Removing the existing transformer from the plinth / Pole and refixing the standby transformer of following capacity including connections etc., complete.....		
	a	up to 315 KVA	1 No	3500
	b	500 / 1000 KVA	1 No	4500
385	ELEC-6.4.6	Replacing old and unserviceable gasket of top cover plate of transformer having following capacity. -.....		
	a	up to 315 KVA	1 No	750
	b	500 / 1000 KVA	1 No	1000
386	ELEC-6.4.7	Replacing old and unserviceable gasket of bushing for the following Transformer capacity. -.....		
	a	up to 315 KVA HT,	1 No	350
	b	500 / 1000 KVA HT,	1 No	750
	c	up to 315 KVA LT,	1 No	900
	d	500 / 1000 KVA LT,	1 No	1500
387	ELEC-6.4.8	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-		
	a	For copper coils	1 Kg	600
	b	For aluminium coils	1 Kg	400
387	ELEC-6.4.9	Insulating HT / LT copper / aluminium coils for Transformers.	1 Kg	325
388	ELEC-6.4.10	Painting to transformer with 2 coats Zinchromate red oxide duly scraping existing paint followed by 2 coats of hammerton grey paint etc., complete. -.....		
	a	Upto 500 KVA	1 No	3500
	b	630 / 1000 KVA	1 No	4500
389	ELEC-6.4.11	Replacing for distribution Transformer by new one.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	H.T bushing	1 No	350
	b	H.T bushing with metal parts	1 No	400
	c	L.T bushing Upto 315 KVA	1 No	200
	d	L.T bushing 500 / 1000 KVA	1 No	250
	e	L.T bushing rod with metal parts up to 315 KVA	1 No	500
	f	L.T bushing rod with metal parts 500/1000 KVA	1 No	1850
390	ELEC-6.4.12	Drying the repaired transformer with appropriate heat / air of following capacity of transformers.-		
	a	Upto 315 KVA	1 No	4400
	b	500 / 1000KVA	1 No	5500
391	ELEC-6.4.13	Loading, transportation and Unloading of transformer from site to Workshop or vice verse.		
	a	Upto 500 KVA	1 No	4500
	b	630 / 1000 KVA	1 No	7000
392	ELEC-6.4.14	Supply of new and tested transformer oil as per IS-335 - 1972 (per Ltr)	1 Ltr	120
393	ELEC-6.4.15	Filtration of transformer oil as per ISS specifications filters to dielectric strength above 40KV		
	a	at site. (per Ltr) excluding transportation	1 Ltr	10
	b	at workshop (per Ltr)	1 Ltr	7
	6.5	OVERHEAD LINES& LINE MATERIALS		
394	ELEC-6.5.1	Supply and transportation of .....PSCC Poles		
	a	8.0 Mtr ,Working load-140 Kgs	1No	2150
	b	8.0 Mtr ,Working load-200 Kgs	1No	2275
	c	9.1 Mtr ,Working load-280 Kgs	1No	4150
395	ELEC-6.5.2	Supply and transportation of 9 mtr length .....RS Joist Poles		
	f	150 x 75 mm(Wt of the pole-140 Kgs)	1No	8600
	g	175 x 85 mm(Wt of the pole-215Kgs)	1No	13250
	h	150 x 150 mm(Wt of the pole-333 Kgs)	1No	20500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
396	ELEC-6.5.3	Supply and erection of GI stay set of dia..... including stay clamps , turn buckle and GI stay wire tight end through strain insulator including excavation of pit and cc work etc.,complete		
	a	20mm,2.4 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	1850
	b	16mm,1.8 mtr long stay rod and anchor plate 380mmx380mmx6.4mm	1 set	1400
397	ELEC-6.5.4	Supply and fixing of 11KV -V- cross arms with .....duly welded with necessary clamping arrangements etc., complete		
	a	75x40 mm MS channel including 4 nos 50 x 50 x6 mm packing plates (9 Kgs)	1 No	1200
	b	65 x65 x6 MS angle (8.2 Kgs)	1 No	850
398	ELEC-6.5.5	Supply and fixing of LT 3 phase 4 wire cross arm of length 3' 8" with..... and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		
	a	50 x 50 x6 mm MS angle (wt 5.75 Kgs)	1 No	415
	b	65 x65 x6 MS angle (wt 7 Kgs)	1 No	490
399	ELEC-6.5.6	Supply and fixing of LT 3 phase 5 wire cross arm of length 4' 5" with..... and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		
	a	50 x 50 x6 mm MS angle (wt 7.30Kgs)	1 No	535
	b	65 x65 x6 MS angle (wt 9.60 Kgs)	1 No	675
400	ELEC-6.5.7	Supply and fixing of LT single phase 3 wire cross arm with 50 x 50 x6 mm MS angle of 2' 5" (wt 4.20 Kgs) and necessary clamping arrangements ,cutting ,drilling and welding etc., complete		330
401	ELEC-6.5.8	Supply and fixing of 11 KV pin Insulator (IS 731/1971) with minimum creepage distance of 300 mm on existing cross arm including all accessories like Hot dip GI spindle and nuts etc.,	each	200
402	ELEC-6.5.9	Supply and fixing of LT pcelain pininsulator as per IS 1447-1997 suitable for working voltage 1100 V including all accessories like Hot dip GI spindle and nuts etc.,		
	a	100 x 65 mm	each	80
	b	100 x 85 mm	each	90

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
403	ELEC-6.5.10	Supply and fixing of LT pocolain shackle insulator as per IS 1443-1979 suitable for working voltage 1100 V including all accessories like Hot dip GI spindle and nuts etc.,		
	a	75 x 90 mm	each	140
	b	100 x 110 mm	each	170
404	ELEC-6.5.11	Supply and fixing of distribution type lightning arrester 11 KV 5 kA as per IS 3070 with mounting base on the existing DP structure	each	2500
405	ELEC-6.5.12	Supply and fixing of 100 A 11 KV Horn Gap fuse set as per IS 9385 on existing DP structure with 6 nos 24 KV /22 KV post Insulators(IS 5350, Hot dipped Hard ware, fuse wire of required size etc., complete	each	5500
406	ELEC-6.5.13	Supply and fixing of 11 KV danger plates on the existing poles	each	100
407	ELEC-6.5.14	Supply and fixing of 11 KV ,400 A 3 phase central post rotating double break type AB switch(isolator) as per IS 9921) without earth blade,gang operated ,Hozizontal type,operating mechanism with GI spring loaded reverse loop type fixed contact,solid HD electrolytic copper tubular moving contact with silver/Nicle plated at end points,9 Nos post insulators of 12 Kv(IS 2594 and IS 5350) ,Hot Dip galvenizing hardware,GI pipe,Nuts and bolts etc., complete.,	each	18000
408	ELEC-6.5.15	Supply and Transportation of Over Head Conductor as per IS 398 (PART - II) : 1996		
	a	7/3.55 ACSR Rabbit (214 Kg/KM)	1KM	
	b	7/2.59 ACSR weasel (128 Kg/KM)	1KM	
	c	7/2.11 ACSR squirrel (85 Kg/KM)	1KM	
	d	100 sqmm AAA	1KM	50953
	e	55 sqmm AAA	1KM	29490
	f	34 sqmm AAA	1KM	17685

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
409	ELEC-6.5.16	Supply and erecting fencing section having size 2045 mt height from ground level and 1.2 mt width by using angle iron size 50 x50 x6 mm erected in cc foundation 15 x15x40 cm deep . The section of the frame shall be fitted with flat iron support of size 25 x 6 mm on top , bottom an dmid way and chain link jolley of 3.26 mm dia /10 SWG GI hard wire mesh of 50 x50 mm to the angle iron at every distance of 30 cm , by iron studs complete duly painted with one coat of red oxide and 2 coats of aluminium paint,	1 No	As per DATA
410	ELEC-6.5.17	Supply and erecting double leaf hinged door each 150 cm in width and 180 cm in height using 40 mm dia B grade ISI mark GI pipe from all 4 sides with necessary bends and cross supports of angle iron 45 X45 X5 mm with the door leaf covered with chain links jolley 50 X 50 mm made from 3.26 mm dia/10 SWG Gi wire with necessary flat iron covering all round with necessary no of spikes of size 10 mm dia at top and bottom at 150 mm apart to match the height of fencing. The door shall have latches and side channel of 100 X50 X5 mm regidly welded for providing locking arrangement Godrej/Navtal make medium size lock with duplicate keys, fencing completely erected and painted with anti corrosive red oxide paint and 2 coats of prescribed enamel paint/silver paint. The Channel iron of size 150X75 mm by 2.5 mtr long shall be provided and erected at both sides of gate.	1 No	As per DATA
411	ELEC-6.5.18	Supply and erecting 50 X50X6 mm angle iron corner support 0.5 mt way from the fence supports fixed at the middle fencing frame and other side in cc foundation 15 X15X 40 cm complete duly painted with 1 coat of red oxide and 2 coats of alluminum paint.	1 No	As per DATA
412	ELEC-6.5.19	Providing and spreading HBG metal of size 40 mm size for 100 mm depth above the ground level.		As per DATA

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-6.5.20	Providing transformer plinth 1.2 x 1.2 x 1.5 mtr in size with necessary excavation in ground at the bottom with 150mm thick 1:2:4 cement concrete raft at the bottom and top and 225mm thick wall constructed in stone masonry and remaking hallow portion shall be filled with stone chips duly plastered 20mm thick outsides including watering etc., complete.	1 No	10000
	ELEC-6.5.21	Providing CTPT plinth 600mm x 600mm x 2.1 mtr in size with necessary excavation in ground at the bottom with 150mm thick 1:2:4 cement concrete raft at the bottom and top duly plastered 20mm thick outsides including watering etc., complete.	1 No	6000
	6.6	LIGHTENING PROTECTIVE SYSTEM		
		Advanced LPS		
	ELEC-6.6.1 a	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $t = 30\mu s$, Protection Radius ranging from 48 Meters in Level-I to 71 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current Impulses of 40kA (5 Shots of 8/20 μs wave shape) and having capturing rod dia of 25mm. Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND	1 No	95000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-6.6.1 b	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $t = 50\mu s$, Protection Radius ranging from 68 Meters in Level-I to 95 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current Impulses of 40kA (5 Shots of 8/20 μs wave shape) and having capturing rod dia of 25mm. Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND	1 No	100000
413	ELEC-6.6.1 c	Supply of ESE Air Terminal of external wide area of protection system based on proactive Early Steamer Emission (ESE) Technology manufactured in accordance with NFC 17-102:2011 , is made of high-quality, non corrosive and weather resistant XL-304 Stainless Steel Having triggering advance $t = 60\mu s$, Protection Radius ranging from 79 Meters in Level-I to 107 Meters in Level-IV when installed on a 5 Meters Mast. ESE terminal is capable to withstand Current Impulses of 40kA (5 Shots of 8/20 μs wave shape) and having capturing rod dia of 25mm. Make : THUNDERGUARD(EARTHPLUS)/ KALRE/ NIMBUS / FOREND	1 No	114000
414	ELEC-6.6.2	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 GI Mast with stay wire. 6. Installation of Earth Electrodes 7. Interconnection between the	1 No	29000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Electrodes 8. Termination of down conductor to earth bus etc complete.		
415	ELEC-6.6.3	Supply of 6 Digit Electronic/Mechanical counter Make: EARTHPLUS (THUNDER GUARD) / NIMBUS / KALRE / FOREND	1 No	15000
416	ELEC-6.6.4	Supply of G.I mast of 5 Meters length, 50 mm Dia, with FRP Collar (Insulating Bush) Base Plate & Complete Fitting Accessories with Supporting Guy Wire (Stay Wires) and all fitting accessories	1 Set	6000
418	ELEC-6.6.5	Supply of IEC 62561-7 compliant Eco-friendly, Maintenance free, anti-corrosive, lead-free, super conductive, mineral based high-grade earthing compound, To enhance soil conductivity. With resistance <0.12 ohms-meter, Sulphur Free, Should be tested as per IEC-62561-7 for resistance Toxic Elements, Leachable elements etc. 25 Kg Bag Make: EARTHPLUS /CIRPROTEC / INDALAC / INGESCO	1 No	2200
419	ELEC-6.6.6	Supply of Bentonite Moisture Retaining Powder 30 Kg Bag	1 No	170
420	ELEC-6.6.7	Supply of Concrete Earth Pit of Dimensions: Width: 320 mm, Length: 320 mm, Height: 192mm, Weight 30 Kgs, Load bearing Capacity: 5000 Kgs	1 No	1500
		CONVENTIONAL LPS AS PER IS/IEC 62305		
		Air Terminal		
421	ELEC-6.6.8	Supply, installation, testing and commissioning of 8 mm Aluminum Round Conductor complete as per requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)	1 RM	90

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
422	ELEC-6.6.9	Supply, installation, testing and commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	each	50
423	ELEC-6.6.10	Supply, installation, testing and commissioning of Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance.	each	130
424	ELEC-6.6.11	Supply, installation, testing and commissioning of Fang Fix Junior system - Inclusive of Al interception rod of 1Mtr length(10mm dia) , Quick mounting of the interception rod in the base using plug technology	each	1650
425	ELEC-6.6.12	Supply, installation, testing and commissioning of cross universal connector: For T and cross connection, to route vertical down conductor /mesh formation made of hot dipped galvanised iron with necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts	each	132
426	ELEC-6.6.13	Supply, installation, testing and commissioning of expansion piece with connector: For equalising temperature related length changes. Necessary on conductors length over 20 meters. For round conductor Rd 8/ALU.Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Conforms to the requirements according to DIN VDE 0185-305 (IS-IEC 62305)(2nos/expansion piece).	each	395
		DOWN CONDUCTOR		
427	ELEC-6.6.14	Supply, installation, testing and commissioning of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2	1 RM	90

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		(VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)		
428	ELEC-6.6.15	Supply, installation, testing and commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	each	50
429	ELEC-6.6.16	Supply, installation, testing and commissioning of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer	each	310
430	ELEC-6.6.17	Supply, installation, testing and commissioning of Lightning counter - To count no of lightning strike & it can record the date and time of the lightning incident also tested as per IEC 62561-6.	each	16500
	6.7	EARTHING		
431	ELEC-6.7.1	Providing earth electrode of low carbon steel rod, UL listed of 17.2 mm dia, 3 Mtr long, coated with copper of 254 microns thickness, CPRI tested for short time current withstand test of 25 kA, coating thickness, environmental test (Salt Mist Test), Bend test, Tensile strength, Yield / tensile ratio, Electrical Resistivity test, complete with clamps and 2 bags of Earthplus ULTRA high grade earthing compound IEC 62561-7 compliant Eco-friendly, Maintenance free, anti corrosive, lead-free, super conductive, mineral based high-grade earthing compound, to enhance soil conductivity. With resistance <0.20 ohms-meter, should be leach proof & sulphur free complete with earth inspection chamber of dimensions : Width : 320 mm x 320 mm, Height : 192 mm, Weight : 30 Kgs, Load bearing capacity : 5000 Kgs	1 No	9500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
432	ELEC-6.7.2	Providing earthing as per IS 3043 with perforated 3 mtr long 40 mm dia B class GI pipe including all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm and embodying the pipe complete with alternate layers of salt and coke /charcoal/bentonite powder testing earth resistance as required etc., complete	1 No	As per DATA
433	ELEC-6.7.3	Providing earthing as per IS 3043 with GI earth plate of size 600 x600 x 6 mm by embodying 3 to 4 mtr below the ground level with 40 mm dia GI B class perforated pipe including all including all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm and embodying the pipe complete with alternate layers of salt and coke /charcoal/bentonite powder testing earth resistance as required etc., complete	1 No	As per DATA
434	ELEC-6.7.4	Providing earthing as per IS 3043 with copper earth plate of size 600 x 600 x 3.15 mm by embodying 3 to 4 mtr below the ground level with 40mm dia 'B' Class G.I Pipe by excavating a pit to a depth of 3 to 4 Mtr in all soils for Sophisticated Electronic equipment as per National Electric Code and earth connection from electrode Copper strip of 25mm x 5mm x 200mm length to be bolted with nut bolts to G.I.pipe including 25mm x 3mm copper strip of 6Mtrs length connected from plate to Copper strip including filling with 20Kg Salt and 40Kg Charcoal or 40Kg bentonite powderincluding all accessories like nuts bolts reducer,nipple, wire meshed funnel andCCfinished chamber covered with hinged type with CI cover ,CI frame of size 300 X 300 mm ,testing earth resistance as required etc., complete	1 No	As per DATA

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
435	ELEC-6.7.5	Providing independent earthing for Important equipment with 100mm dia Heavy gauge C.I (Cast iron) pipe with Flange 2.5m long enclosed in C.C/ brick massonry chamber of 450m x 450m x 400mm with R.C.C. Slab cover duly providing staggered holes filling with salt and charcoal from the bottom of the pipe giving earth connection from electrode through G.I strip of 40 x 6mm x 200mm length with all accessories and labour charges complete, as per IS specifications 732/1982 (Part II)	1 No	7500
		EARTH CONDUCTORS		
436	ELEC-6.7.6	Supply and laying of following sizes Earth wire/Strip in horizontal /Vertical run in Ground/surface/Recess including, revitting,soldering,saddles,making connection etc as required		
	a	6 SWG Copper wire(0.16 Kgs/1 Mtr)	1 Mtr	94
	b	8 SWG Copper wire(0.1155Kgs/1Mtr)	1 Mtr	68
	c	10 SWG Copper wire(0.075Kgs/1Mtr)	1 Mtr	44
	d	6 SWG GI wire(0.192 Kgs/Mtr)	1 Mtr	13
	e	8 SWG GI wire(0.104Kgs/1Mtr)	1 Mtr	7
	f	10 SWG GI wire(0.067Kgs/1Mtr)	1 Mtr	4
	g	20mm x 3mm Copper Flat(0.529Kgs/1Mtr)	1 Mtr	312
	h	25mm x 3mm Copper Flat (0.663Kgs/1Mtr)	1 Mtr	390
	i	32 mm x 6mm Copper Flat(1.9 Kgs/Mtr)	1 Mtr	1120
	j	50 mm x 6mm Copper Flat (2.680Kgs/1Mtr)	1 Mtr	1580
	k	25mm x 3mm GI Flat(0.656 Kgs/Mtr)	1 Mtr	42
	l	25mm x 6mm GI Flat (1.18Kgs/1Mtr)	1 Mtr	75
	m	32 mm x 6mm GI Flat(1.6 kgs/Mtr)	1 Mtr	105
	n	50 mm x 6mm GI Flat(2.5 Kgs ?mtr)	1 Mtr	160
		SECTION 7		
	7.0	LOCAL AREA NETWORK		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
437	ELEC-7.1.1	Supply,laying ,testing and commisioning of 4-pair, Cat6 Solid (Third party ETL Intertek tested 600 MHZ above) to support 1Gbps with Cross (+) filler pair seperator & PVC sheath 23 AWG, STP/UTP Cable , Meets or exceeds ANSI/TIA-568-C.2 and UL Listed &RoHS Compliant in the existing raceways /pvc conduits including making connections to information outlets and patch panels with ferruling at both ends for identifiation with necessary tools for punching stripping crimping and testing required etc., complete Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand		
	a	6 UTP cable	RM	32
	b	6 STP cable	RM	44
438	ELEC-7.1.2	Supply installation testing and commisioning of 2nos of Cat6 Tooless builtin crimping mechanism Information Outlet with Dust Cover Exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 standards with 2module face plate for Category 6 component performance & Compatible to T568A,T568B wiring pattern and UL-940V0 Rated Plastic &RoHS Compliant Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand	each	750
439	ELEC-7.1.3	Supply installation testing and commisioning of 1no of Cat6 Tooless builtin crimping mechanism Information Outlet with Dust Cover Exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 standards with 1module face plate for Category 6 component performance & Compatible to T568A,T568B wiring pattern and UL-940V0 Rated Plastic &RoHS Compliant Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand	each	390
440	ELEC-7.1.4	Supply installation testing and commisioning of 4 pair 23AWG Cat6 UTP ,flexible ,double ended patch cords along with 2 nos of RJ 45 connectors with strain relief boots Compatible to T568A,T568Bspecifications including making connections to information outlets Makes: Systimax /AMP/ Panduit/ Siemond/ Molex/Legrand		
	a	1mtr/3 ft	each	185
	b	2mtr/7 ft	each	220
	c	3 mtr/10 ft	each	250
441	ELEC-7.1.5	Supply installation testing and commisioningof Single Mode LC Pigtails LSZH 1mtr for fibre core	each	270

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		connectivity .Makes: Systimax /Legrand/Molex/Krone /AMP		
442	ELEC-7.1.6	Supply installation testing and commisioningof Single Mode SC Pigtails LSZH 1mtr for fibre core connectivity .Makes: Systimax /Legrand/Molex/Krone /AMP	each	370
443	ELEC-7.1.7	Supply installation testing and commisioningof Single Mode LC Pigtails LSZH 2mtr for fibre core connectivity .Makes: Systimax /Legrand/Molex/Krone /AMP	each	280
444	ELEC-7.1.8	Supply installation testing and commisioningof Single Mode SC Pigtails LSZH 2mtr for fibre core connectivity .Makes: Systimax /Legrand/Molex/Krone /AMP	each	390
445	ELEC-7.1.9	Supply installation testing and commisioning of Indoor multimode[62.5/125um] glass Fiber Optic Cable as per latest ammendments of TIA /EIA 568B.3 , GR 409 CORE / UL listed NEC 770 Standards in existing Raceways/PVC Conduits/ slotted channels including making Terminations to active passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing required Makes: Systimax /Legrand/Molex/Panduit/Siemonnd/AMP		
	a	4 fiber		64
	b	6 fiber		69
	c	12 fiber		95
446	ELEC-7.1.10	Supply installation testing and commisioning Outdoor , steel tape armoured multimode[62.5/125um] glass Fiber Optic Cable as per latest ammendments of TIA /EIA 568B.3 , GR 20 CORE/ UEC 794-1/ EN 187000 Standards in existing MSPVC Conduits/ hume pipe including making terminations to active passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing required Makes:Systimax /Legrand/Molex/Panduit/Siemonnd/AMP		
	a	4 fiber		65
	b	6 fiber		72
	c	12 fiber		98

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
446	ELEC-7.1.11	Supply ,Installation and Testing and commissioning of indoor 1 pair multimode [62.5/125um] glass Fiber Optic Patch Cords of One mtr length as per latest ammendments of TIA /EIA 568B.3 and IEC 794 Standard Specifications including ST II / SC/FC/MT/PC connectors at both ends as per requirements Makes: Systimax /Legrand/Molex/Panduit/Siemon d/AMP	mtr	919
447	ELEC-7.1.12	Supply ,Installation Testing and commisioning of 19 " Rack mounted/surface mounted aluminium / CRS powder coated multimode glass Fiber Optic Cable Patch panel/ LIU(upgradable to intelligent panels with use of sensor strips) along with cable tray/ fiber management system , adapters for ST II/ SC/FC/MT/PC connections including making connections to active / passive equipments with ferruling at both ends for identification with necessary tools for Terminations and testing requir Makes: Systimax /Legrand/Molex/Panduit/Siemon d/AMP		
	a	8 Ports	1 No	5500
	b	12 Ports	1 No	7200
	c	24 Ports	1 No	13625
	d	36 Ports	1 No	15400
448	ELEC-7.1.13	Supply , Installation, Testing and Comissioning of Rack mounted 19", Cat 6 UTP,1.5-1.6 MM CRS chasis , powder coated Modular Patch Panels (upgradable to intelligent panels with use of sensor strips) with collapsible shutters on jacks to support latest ammendments of TIA / EIA Cat 6 Specifications in Existing Communication Rack along with necessary connections of Cat 6 UTP Cables, With Rear Cable management trays and clamps. Makes: Systimax /Legrand/Molex/Panduit/Siemon d/AMP		
	a	6 Ports	1 No	2900
	b	12 Ports	1 No	3600
	c	18 Ports	1 No	4500
	d	24 Ports	1 No	5500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
449	ELEC-7.1.14	Supply , Installation, Testing and Comissioning of Wall mounted Communication rack in two sections viz rear wall mount Section and hinged front section with glass doors, swing handles ,lock , Top and Bottom Cable entries,Supports for mounting rack on wall , Cable managers, Fan tray with 2 x 230 Volt fans, Equipment mounting hardware, wire managers , power supply box for supplying power to hubs, fans etc along with earth continuity kit, Mcb, indicator, moulded power supply cable, Blank panels , sliding shelves etc. Make: APW/HCL/Valrack/Netrack		
	a	6 U(44 mm) wall mounted	1 No	4680
	b	9 U(44 mm) wall mounted	1 No	5500
	c	12 U(44 mm) wall mounted	1 No	6460
	d	15 U(44 mm) wall mounted	1 No	7320
450	ELEC-7.1.15	Supply , Installation, Testing and Comissioning of Floor mounted Communication rack in two sections viz rear Steel Door and hinged front section with glass doors, swing handles ,lock on both doors, Top and Bottom Cable entries with gland plates ,Castor with brakes , 7 no Cable managers, 1 no Fan tray with 2 x 230 Volt fans, Equipment mounting hardware, wire managers , power supply box for supplying power to hubs, fans etc along with earth continuity kit, Mcb, indicator, moulded power supply cable, Blank panels of 1u / 2 u , sliding shelves .Frame of communication rack should be made of heavy grade Aluminum profile PS grey painted and panels should be made from CRCA steel 18 swg RS Beige painted . Make: APW/HCL/Valrack/Netrack		
	a	22 U (44 mm) Floor Standing Rack	1 No	20500
	b	27 U (44 mm)Floor Standing Rack	1 No	23000
	c	37 U (44 mm)Floor Standing Rack	1 No	32000
	d	42 U (44 mm)Floor Standing Rack 800WX1000D	1 No	41800
		MANAGEBLE NET WORK SWITCHES		
451	ELEC-7.1.16	Supply ,Installation ,Testing and Commissioning of Small Business 24 port Gigabit Managed Switch , Make :Cisco Model SG350-28 or equivalent in Juniper/Extreme	1 No	13000
452	ELEC-7.1.17	Supply ,Installation ,Testing and Commissioning of Small Business 48 port Gigabit Managed Switch , Make	1 No	24800

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		:Cisco Model SG300-52 or equivalent in Juniper/Extreme		
453	ELEC-7.1.18	Supply & Fixing of Cisco small business 8 port Gigabit POE Managed Switch , Make : Cisco Model:SG-350- 8PP or equivalent in Juniper/Extreme	1 No	13500
454	ELEC-7.1.19	Supply & Fixing of Cisco small business 24 port Gigabit POE Managed Switch , Make : Cisco Model:SG-350-28PP or equivalent in Juniper/Extreme	1 No	25000
455	ELEC-7.1.20	Supply ,Installation ,Testing and Commissioning of Small Business 24 port Gigabit Managed Switch Make :Cisco Model SG350-28SFP or equivalent in Juniper/Extreme	1 No	71500
456	ELEC-7.1.21	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 24 port , 10/100+2T/SFP LAN base Manageble Net work switch. Make: CISCO WS - C2960+24TC-L or equivalent in JUNIPER/ EXTREME	1 No	52000
457	ELEC-7.1.22	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 48 port , 10/100+2T/SFP LAN base Manageble Net work switch.Make: CISCO WS- C2960+48TC-L or equilent in JUNIPER/EXTREME	1 No	102000
458	ELEC-7.1.23	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 24 port, POE 10/100+2T/SFP LAN base Manageble Net work switch. Make: CISCO-C2960+24PC-L or equilent in JUNIPER/EXTREME	1 No	102000
459	ELEC-7.1.24	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 48 port, POE 10/100+2T/SFP LAN base Manageble Net work switch. Make: CISCO-C2960+48PST-L or equilent in JUNIPER/EXTREME	1 No	180000
460	ELEC-7.1.25	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 24 port, Gige LAN base Manageble Net work switch. Make: CISCO WS - C2960X-24TS-L or	1 No	152500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		equivalent in JUNIPER/ EXTREME		
461	ELEC-7.1.26	Supply , Installation, Testing and Comissioning of Layer2 , Catalyst 2960 Plus 48 port, GigE LAN base Manageble Net work switch. Make: CISCO WS - C2960X-48TS-L or equivalent in JUNIPER/ EXTREME	1 No	266000
462	ELEC-7.1.27	Supply & Fixing of WiFiAccess point with mounting accessories etc.,complete . Make : Cisco Aironet 1815i or equivalent in Ruckus/Aruba	1 No	22500
	7.2	RACEWAYS AND JUNCTION BOXES		
463	ELEC-7.2.1	Supply of .....G I Raceways of 2mm thick with top cover and required hard ware etc complete.		
	a	100mm x 38mm	1 Mtr	445
	b	150mm x 38mm	1 Mtr	595
	c	300mm x 38mm	1 Mtr	1010
	d	100mm x 25mm	1 Mtr	420
	e	150mm x 25mm	1 Mtr	550
	f	300mm x 25mm	1 Mtr	990
464	ELEC-7.2.2	Supply of .....G.I. Junction box of 2mm thick for direct acces to cables at the inter section of Raceways.		
	a	172mm x 52mm	1 No	335
	b	222mm x 52mm	1 No	425
	c	372mm x 52mm	1 No	790
	7.3	COMPUTERS,PRINTERS AND SCANNERS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-7.3.1	<p>Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration.</p> <p>Model : HP ProDesk or its equivalent in Dell/Lenova</p> <ol style="list-style-type: none"> 1. Processor: Intel® Core™ i7-7700 Processor with Intel® HD Graphics 630 (3.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel H110 Chipset 2. Memory: 8 GB DDR4-2400 SDRAM (1 x 8 GB) 3. Hard drive 1 TB 7200 rpm SATA 4. HP Monitor : 18.5"/19.5" with TCO 7.0 or its equivalent in HP/Dell/Lenova 5. DVD:RW 9.5MM Optical Disk Drive, 1 audio line in; 1 audio line out; 1 HDMI; 1 RJ-45; 1 VGA; 4 USB 3.0; 4 USB 2.0 6. Operating Systems: Preloaded Windows 10 professional 64 bit with product key License. 7. Preloaded with latest version of Antivirus Symantec/ McAfee / NOD32 / eTrust / Avast Internet Security / Kaspersky / Quickheal / eScan / Msecure with following features: Antivirus, Antispyware, Intrusion Prevention Browser protection with single management console with 3 year subscription with support updates and patches. 8. Accessories: With required connecting cables and driver media should be supplied. 9. Warranty: 3 Year Standard On-Site Comprehensive Hardware Warranty (including O.S support, Spares-Parts/Service/Labour/On-site) 	1 No	65700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
465	ELEC-7.3.2	<p>Supply, Transportation and installation of Desktop with fully loaded software as desired, with the following configuration.</p> <p>Model : HP ProDesk or its equivalent in Dell/Lenova</p> <ol style="list-style-type: none"> 1. Processor: Intel® Core™ i5-7500 Processor with Intel® HD Graphics 630 (3.4 GHz base frequency with Intel® Turbo Boost Technology, 6 MB cache) Intel H110 Chipset 2. Memory: 8 GB DDR4-2400 SDRAM (1 x 8 GB) 3. Hard drive 1 TB 7200 rpm SATA 4. HP Monitor : 18.5"/19.5" with TCO 7.0 or its equivalent in Dell/Lenova 5. DVD:RW 9.5MM Optical Disk Drive, 1 audio line in; 1 audio line out; 1 HDMI; 1 RJ-45; 1 VGA; 4 USB 3.0; 4 USB 2.0 6. Operating Systems: Preloaded Windows 10 professional 64 bit with product key License. However, the product key should be mentioned in the installation report at the time of installation. 7. Preloaded with latest version of Antivirus Symantec/ McAfee / NOD32 / eTrust / Avast Internet Security / Kaspersky / Quickheal / eScan / Msecure with following features: Antivirus, Antispyware, Intrusion Prevention Browser protection with single management console with 3 year subscription with support updates and patches. 8. Accessories: With required connecting cables and driver media should be supplied. 9. Warranty: 3 Year Standard On-Site Comprehensive Hardware Warranty (including O.S support, Spares-Parts/Service/Labour/On-site) 	1 No	59350

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
466	ELEC-7.3.3	Supply, Transportation and installation of Printer Make : HP LaserJet 1020 Plus Printer (OR) It's Equivalent in Canon /Epson Features: Print technology Laser Duty cycle (monthly, letter) Up to 5000 pages Recommended monthly page volume 250 to 2000 Duty cycle (monthly, A4) Up to 5000 pages print Print speed black (normal, letter) Up to 15 ppm Print speed black (normal, A4) Up to 14 ppm Duplex printing Manual (driver support provided) PROCESSOR Processor speed 234 MHz PAPER HANDLING Envelope feeder No Paper trays, maximum 1 (plus single-sheet priority input slot)	1 No	10880
467	ELEC-7.3.4	Supply, Transportation and installation of All-in-One (Print, Copy, Scan) with duplex, auto document feeder makes: Canon imageCLASS MF244dw /HP/Brother DCPB7535DW or its equivalent features: -Print Resolution 600 x 600dpi -Print Speed (A4) 27ppm -Auto Duplex Printing Standard -Available Paper Size for Auto Duplex Print A4, Letter, Legal (*1), Indian Legal, Fullscape -COPY Copy Speed (A4) 27ppm Maximum Number of Copies Up to 999 copies Scan Type Colour Contact Image Sensor Scan Resolution Optical Up to 600 x 600dpi Pull Scan Yes, USB and Network	1 No	20500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
468	ELEC-7.3.5	Supply, Transportation and installation of Document Scanner Make : Brother ADS-2400N document scanner (OR) It's Equivalent in Canon/HP Features: upto 30ppm/60ipm at 300dpi paper size A8 to A4/Legal 256MB memory upto 1200X1200 dpi resolution 50pages ADF input capacity upto 3000 pgs daily duty cycle USB 2.0 Host & Gigabit Lan Port	1 No	34990
469	ELEC-7.3.6	Supply of 5 Pair telephone copper wire. Makes: Finolex / Delton / Surabi / Polycab	100 Mtrs	2500
470	ELEC-7.3.7	Supply of 100 pair MDF loaded with 2/10 Modular. Makes: Krone or its equivalent.	1 No	3330
471	ELEC-7.3.8	Supply of 100 Pair raiser cable for telephone Makes: Finolex / Delton / Surabi / Polycab.	1 Mtr	350
472	ELEC-7.3.9	Supply of 10 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab	1 Mtr	35
473	ELEC-7.3.10	Supply of 20 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab	1 Mtr	70
474	ELEC-7.3.11	Supply of 50 Pair telephone Copper wire. Makes: Finolex / Delton / Surabi / Polycab.	1 Mtr	175
475	ELEC-7.3.12	Supply of 10 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	590
476	ELEC-7.3.13	Supply of 20 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	900
477	ELEC-7.3.14	Supply of 50 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	1875

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
478	ELEC-7.3.15	Supply of 200 pair Telephone distribution box with back mount frame, krone connector, powder coated metal body with lock and key arrangement.	1 No	7160
		EPABX SYSTEM		
	7.4	SMALL SYSTEM		
	ELEC-7.4.1	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 32 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes: NEC/ Alcatel /Avaya/Siemens /	1 No	86500
	ELEC-7.4.2	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 48 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires)	1 No	95000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		> Expandable to 64 Analog Extensions or more Makes: NEC/ Alcatel /Avaya/Siemens		
	ELEC-7.4.3	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 1 ISDN PRI Module > 6 Digital Extensions > 48 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes: NEC/ Alcatel /Avaya/Seimens	1 No	105800
	ELEC-7.4.4	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 6 Digital Extensions > 64 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes: NEC/ Alcatel	1 No	109000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		/Avaya/Siemens		
	ELEC-7.4.5	Supply, Installation, testing and Commissioning of IP Based digital Telephone (EPABX) system ----- complied with following specifications: > IP @ Core, PCM/TDM, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and ios) > Must support Voice Mail > Must support Card based GSM > Inbuilt 8 Channel Auto Attendant > Inbuilt Call Details Software with search engine software > 4 Analog Trunks > 1 ISDN PRI Module > 6 Digital Extensions > 64 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 64 Analog Extensions or more Makes: NEC/ Alcatel /Avaya/Siemens	1 No	119000
	ELEC-7.4.6	Supply and installation of Analog Extension Card (with Caller ID) 8 extensions.	1 No	14500
	ELEC-7.4.7	Supply and installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	19000
	ELEC-7.4.8	Supply and installation of Analog Trunk Card (with Caller ID) 4 trunks.	1 No	16100
	ELEC-7.4.9	Supply and installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	20000
	ELEC-7.4.10	Supply and installation of Digital Extension Card for 8 digital extensions:	1 No	18700
	ELEC-7.4.11	Supply and installation of Digital Extension Card for 16 digital extensions:	1 No	31500
	ELEC-7.4.12	Supply and installation of E1 Trunk Card or PRI Card 30 ISDN PRI or R2 trunk channels.	1 No	47250
	7.5	LARGE SYSTEM	1 No	

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-7.5.1	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 8 Digital Extensions > 96 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 220 Ports wired or more at extra cost Makes: NEC/ Alcatel /Avaya/Siemens	1 No	238600
	ELEC-7.5.2	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 8 Digital Extensions > 128 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Expandable to 220 Ports wired or more at extra cost Makes: NEC/ Alcatel /Avaya/Siemens	1 No	361000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-7.5.3	<p>Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications:</p> <ul style="list-style-type: none"> > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 8 Digital Extensions > 160 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 220 Ports wired or more at extra cost <p>Makes: NEC/ Alcatel /Avaya/Siemens</p>	1 No	435000
	ELEC-7.5.4	<p>Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications:</p> <ul style="list-style-type: none"> > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 16 Digital Extensions > 224 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 400 Ports wired or 	1 No	606000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		more at extra cost Makes: NEC/ Alcatel /Avaya/Siemens		
	ELEC-7.5.5	Supply, Installation, Testing and Commissioning of IP Based digital Telephone (EPABX) system-- complied with following specifications: > IP @ Core, PCM/TDM switching, Non blocking, > Must Support PRI, E1, Analog Junctions > Must Support PC Console, > Must support Mobile SIP (Android and IOs) > Must support Voice Mail > Must support Card based GSM > Inbuilt Call Details Software with search engine software > 8 Analog Trunks > 1 PRI Trunk module > 16 Digital Extensions > 304 Analog Extensions > 1 Digital Key Phone with minimum 16 Keys (Must work only on 2 wires) > Inbuilt hotstandby for CPU and PSU. > Compatibility to run on DC -48v source. > Expandable to 400 Ports wired or more at extra cost Makes: NEC/ Alcatel /Avaya/Siemens	1 No	702000
	ELEC-7.5.6	Supply and Installation of Analog Extension Card (with Caller ID) 16 extensions.	1 No	19900
	ELEC-7.5.7	Supply and Installation of Analog Trunk Card (with Caller ID) 8 trunks.	1 No	19900
	ELEC-7.5.8	Supply and Installation of Digital Extension Card for 8 digital extensions:	1 No	19900
	ELEC-7.5.9	Supply and Installation of Digital Extension Card for 16 digital extensions:	1 No	32700
	ELEC-7.5.10	Supply and Installation of E1 Trunk Card or PRI Card 30 ISDN PRI or R2 trunk channels.	1 No	49100
	ELEC-7.5.11	Supply and Installation of IP CPU card for redundancy purpose	1 No	35800

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-7.5.12	Supply and Installation of PSU card for redundancy purpose	1 No	21800
	ELEC-7.5.13	Supply and Installation of Digital Key Telephone with 2 line display, 10 programmable keys, handsfree dialing.	1 No	8400
	ELEC-7.5.14	Supply and Installation of Digital Key Telephone with 2 line display, 16 programmable keys, fully handsfree talk back.	1 No	14700
	ELEC-7.5.15	Supply and Installation of IP Gateway card for 8 channels	1 No	41500
	ELEC-7.5.16	Supply and Installation of IP Gateway card for 16 channels	1 No	60000
	ELEC-7.5.17	Supply and Installation of SIP extensions licenses pack (5 SIP extensions)	1 No	4250
	ELEC-7.5.18	Supply and Installation of SIP extensions licenses pack (10 SIP extensions)	1 No	7450
	ELEC-7.5.19	Supply and Installation of IP phone with POE.	1 No	16800
	ELEC-7.5.20	Supply and Installation of 4 port GSM card	1 No	43800
	ELEC-7.5.21	Supply and Installation of Expansion cabinet for 220 more extensions	1 No	83000
	ELEC-7.5.22	Supply and Installation of 100 Pair MDF along with IPM	1 No	13400
		SECTION 8		
	8.1	MISCELLANEOUS ITEMS		
479	ELEC-8.1.1	TW Separators / Gutties	100 Nos	180
480	ELEC-8.1.2	PVC Rawl Plugs	100 Nos	30
481	ELEC-8.1.3	PVC Grips	100 Nos	30
482	ELEC-8.1.4	U Nails	100 Nos	30
483	ELEC-8.1.5	Alluminium Link Clips	100 Nos	30
484	ELEC-8.1.6	50 mm G.I.Nut and Bolts.	1 Set	15
485	ELEC-8.1.7	63 to 100 mm G.I.Nut and Bolts.	1 Set	25
486	ELEC-8.1.8	50 mm 0 Gauge Nails	1 Doz	45

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
487	ELEC-8.1.9	63 to 100 mm 0 Gauge Nails	1 Doz	72
488	ELEC-8.1.10	Hard Coke	1 Kg	20
489	ELEC-8.1.11	Salt	1 Kg	15
490	ELEC-8.1.12	PVC Cleats 2 Way	100 Nos	325
491	ELEC-8.1.13	PVC Cleats 4 Way	100 Nos	430
492	ELEC-8.1.14	Binding Wire	1 Kg	60
493	ELEC-8.1.15	PVC /cotton tape Role (8 Mtrs)	1 No	18
494	ELEC-8.1.16	C.I.Knob	1 No	25
495	ELEC-8.1.17	Stay tight set (Jum bracket 300 mm)	1 Pair	295
496	ELEC-8.1.18	Stay clamp with bolts and Nuts)	1 Set	196
497	ELEC-8.1.19	L.T.Guy insulator	1 No	75
498	ELEC-8.1.20	12 / 15 MS plain rod fan hook	1 No	30
499	ELEC-8.1.21	19 / 20 mm Steel tube fan down rod	1 Mtr	85
500	ELEC-8.1.22	Consealed box PVC / MS with hook for fan	1 No	100
501	ELEC-8.1.23	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook with grouting and cement plastering.	1 No	80
502	ELEC-8.1.24	Coil Earthing	1 No	75
503	ELEC-8.1.25	Cable root Indicators of size 152mm round / 102mm x 102mm / 152mm x 152mm	1 No	85
504	ELEC-8.1.26	40 mm x 40 mm x 6 mm angle iron with I bolt.	1 Set	245
505	ELEC-8.1.27	Mild Steel Items	1 Kg	60
506	ELEC-8.1.28	Acrylic Cover of size 4" x 7" for night lamps.	1 No	20
507	ELEC-8.1.29	TW / PVC Round Blocks	1 No	8
508	ELEC-8.1.30	G.I.Funnel with Mesh 1/2" x 4"	1 No	80
509	ELEC-8.1.31	Asbestos Sheet	1 Sq Mt	25
510	ELEC-8.1.32	First Aid box 18" x 12" x 8"	1 No	1075
511	ELEC-8.1.33	11 KV/ 22 KV Hand gloves	1 No	200
512	ELEC-8.1.34	100mm CI pipe	1 mtr	As per civil SOR

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	8.2	LEGEND PLATES		
513	ELEC-8.2.1	Danger Notice Plates of size -----, shall comply with IS:2551-1982		
	a	250x200mm,	1 No	225
	b	200x150mm,	1 No	200
	c	150x100mm,	1 No	100
514	ELEC-8.2.2	Bus bar chamber 100mm x 40mm	1 No	50
515	ELEC-8.2.3	Cable Alley 100mm x 40mm	1 No	50
516	ELEC-8.2.4	Earth 40mm x 20mm	1 No	50
517	ELEC-8.2.5	Auto / Manual	1 No	50
518	ELEC-8.2.6	Semi oval type aluminium anodized legend plates ON / OFF / Forward / Reverse / Start / Stop / UP / DOWN / R Phase / Y Phase / B Phase / Trip / Open / Close / Left / Right / Motor on / Motor off / Accept / Retract / Reset / Emergency / Running / Pump off / Emergency Stop / Emergency on / Slow.	1 No	25
519	ELEC-8.2.7	Shock instruction chart in English / Hindi / Telugu duly framed with front glass	1 No	450
	8.3	COPPER / ALLUMINIUM / G.I. ITEMS (PER KG)		
520	ELEC-8.3.1	Copper Plate / Strip / SWG wire No.8 / 10 / 14	1 kg	590
521	ELEC-8.3.2	Copper winding wire	1 kg	680
522	ELEC-8.3.3	Copper winding wire with PVC Insulated of fine quality	1 kg	700
523	ELEC-8.3.4	Alluminum Bus bars / Strips / Accessories	1 kg	230
524	ELEC-8.3.5	Alluminum winding wire	1 kg	300
525	ELEC-8.3.6	G.I. Strip / Plate / Wire	1 kg	65
	8.4	SMC TYPE SUPPORTS FOR THE BUSBARS		
526	ELEC-8.4.1	Supply of type supports for the bus bars-----		
	a	50 x 70 x 14 mm	1 No	30
	b	60 x 70 x 14 mm	1 No	35

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	c	70 x 70 x 14 mm	1 No	65
	d	300 x 50 x 10 mm	1 No	20
	e	350 x 52 x 10 mm	1 No	160
	f	420 x 60 x 12 mm	1 No	230
527	ELEC-8.4.2	DMC Earth Flat Supports 20 x3 mm / 20x 6mm / 25 x 6mm / 25 x 3mm / 32 x 3 mm / 32 x 6mm / 40 x 3 mm / 40 x 6mm	1 No	50
528	ELEC-8.4.3	Heat shrinkable sleeves for the Bus bars up to 70 Sqmm	1 Mtr	15
529	ELEC-8.4.4	Heat shrinkable sleeves for the Bus bars above 70 Sqmm	1 Mtr	25
530	ELEC-8.4.5	8 mm LED series bulb (54 Nos.)	Set	300
531	ELEC-8.4.6	8 mm LED series bulb with Navar Patta (250/300 Nos.) with necessary control gear	Set	2500
	ELEC-8.4.7	LED RGB pixel series bulbs(50 Nos)	Set	550
	ELEC-8.4.8	LED RGB pixel series bulbs with Navvar Patta(150 Nos) with necessary control gear	Set	4500
	ELEC-8.4.9	Supply of 3W X54 LED RGB PAR cans with IP 67 protection	1 No	9500
533	ELEC-8.4.10	Supply and fixing of 6mm thick MS Chekered plate.	1 Kg	70
534	ELEC-8.4.11	Supply and fixing of 6mm thick Alluminium Chekered plate	1 Kg	250
535	ELEC-8.4.12	Copper old winding Wire scrap for 1 Kg	1 Kg	150
536	ELEC-8.4.13	Cement	1 Kg	8
537	ELEC-8.4.14	Cost of Sand	1 Cum	600
538	ELEC-8.4.15	Cost of Bricks	1000 Nos	4000
539	ELEC-8.4.16	Hylam Sheet	1 Sq inch	1
540	ELEC-8.4.17	Supply of Nominal-Bore ----- G.I.Pipe		
	a	25mm Heavy grade	1 mtr	280
	b	25mm Medium grade	1 mtr	245
	c	40mm Heavy grade	1 mtr	420
	d	40mm Medium grade	1 mtr	350

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
541	ELEC-8.4.18	80mm Nominal Bore C.I.Earth Pipe of 3 Mtrs Length	1 no	3400
542	ELEC-8.4.19	Earth work excacvation including all soils for trench, Pole Pit and Earth Pit	1 cum	250
543	ELEC-8.4.20	Drilling of 16 Nos through holes of 12mm dia to G.I pipe	1 No	6
544	ELEC-8.4.21	G.I Nuts, Bolts and Washers each set	1 set	12
545	ELEC-8.4.22	18" dia 2" thick hume pipe ring	1 No	250
546	ELEC-8.4.23	18" dia 3" hume pipe ring	1 No	300
547	ELEC-8.4.24	2" thick CC cover for hume pipe ring with handle.	1 No	130
548	ELEC-8.4.25	Supply of Saddle / Clamps suitable for fixing ----- -----		
	a	4 to 10 Sqmm 2 Core Cable	100 Nos	230
	b	4 & 6 Sqmm 4 Core Cable	100 Nos	230
	c	10 & 16 Sqmm 4 Core Cable	100 Nos	300
	d	25 & 35 Sqmm 3.5 Core Cable.	100 Nos	350
	e	50 Sqmm 3.5 Core Cable.	100 Nos	500
	f	70 & 95 Sqmm 3.5 Core Cable	100 Nos	550
	g	120 to 185 Sqmm 3.5 Core Cable	100 Nos	700
	h	240 & 300 Sqmm 3.5 Core Cable	100 Nos	850
	i	400 Sqmm 3.5 Core Cable	100 Nos	1100
549	ELEC-8.4.26	Supply and fixing of PVC synthetic elastomer electrically insulated mat conforming to IS: 15652-2006 with-----		
	a	Class A insulation having 2mm thickness upto 3.3KV	1 sqmt	3800
	b	Class B insulation having 2.5mm thickness upto 11KV	1 sqmt	3900
	c	Class C insulation having 3mm thickness upto 33KV	1 sqmt	4000
550	ELEC-8.4.27	Supply of round bottom G.I sheet bucket of 9 Ltrs. Capacity as per IS:2546 made out of 24 gauge GI sheet with extra handle at bottom duly painted inside and red out side with printed with FIRE Mark for stand and hook and filled with sand and arranged to existing stand or hook. (MR)	1 no	270

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
551	ELEC-8.4.28	Providing floor mounting stand for keeping 4No of fire bucket 1500mm length, 900mm height made out of 40x40x6mm angle iron welded with 4 hooks and duly painted with one coat of red lead and two coats of enamel paint.	1 no	1100
552	ELEC-8.4.29	Supply of GI Louver shutter for exhaust fan		
	a	9 to 12"	1 no	150
	b	15 to 18"	1 no	180
553	ELEC-8.4.30	EICHER model 11:10 with 100 H. P direct injestion 4 stroke engine with one spare wheel 3800 mm cabin high deck with jangla (full body) (4 wheeler) for generator	1 No	620000
		LABOUR RATES		
554	ELEC-8.5.1	Skilled Electrician	1 No	
555	ELEC-8.5.2	Semi Skilled Electrician / Lineman	1 No	
556	ELEC-8.5.3	Helper (Electrical)	1 No	
557	ELEC-8.5.4	Skilled Mason	1 No	
558	ELEC-8.5.5	Semi Skilled Mason	1 No	
559	ELEC-8.5.6	Skilled Welder	1 No	
560	ELEC-8.5.7	Skilled Fitter	1 No	
561	ELEC-8.5.8	Semi Skilled Fitter / Welder	1 No	
562	ELEC-8.5.9	Skilled Carpenter	1 No	
563	ELEC-8.5.10	Semi Skilled Carpenter	1 No	
564	ELEC-8.5.11	Man Mazdoor	1 No	
565	ELEC-8.5.12	DG Set operator/Air Compressor Operator	1 No	
566	ELEC-8.5.13	2nd Class DG Set operator/Air Compressor Operator	1 No	
567	ELEC-8.5.14	Plumber (Licensed)/Pipe Fitter	1 No	
568	ELEC-8.5.15	Painter Class -2	1 No	
569	ELEC-8.5.16	Diploma Engineer / Surveyor	1 No	
570	ELEC-8.5.17	Graduate Engineer	1 No	
571	ELEC-8.5.18	ITI Certificate holder	1 No	

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
572	ELEC-8.5.19	Stenographer / Computer Operator	1 No	
		NB : The labour rates may be adopted based on the common Civil SoR for the year 2020-21		
	9.1	WIRELESS FIRE ALARAM SYSTEM		
573	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	35000
574	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	8500
575	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.	1 No	11500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Makes: Cease Fire / Visonic / Honeywell.		
576	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	5750
	9.2	ADDRESSABLE - FIRE ALARM SYSTEM		
577	ELEC-9.2.1	Supply, Installation, testing and commissioning of wall mounting 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 perUL and FM/EN54 & VDS standards and as required fixing of Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Notifier / Edwards/Bosch		
	a	1 loop	1 No	175000
	b	2 loop	1 No	200000
	c	4 loop	1 No	245000
	d	6 loop	1 No	365000
	e	8 loop	1 No	400000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	f	10 loop	1 No	550000
577	ELEC-9.2.2	Supply, Installation, testing and commissioning of wall mounting 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 perUL and FM/EN54 & VDS standards and as required fixing of Micro processor based Fire Alarm control panel with zonal indications and battery back up as per detailed specifications. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara		
	a	1 loop	1 No	157000
	b	2 loop	1 No	176000
	c	4 loop	1 No	204000
	d	6 loop	1 No	295000
	e	8 loop	1 No	342000
	f	10 loop	1 No	490000
578	ELEC-9.2.3	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/Bosch	1 No	105000
579	ELEC-9.2.4	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 / Honeywell/ Ravel/Seaara	1 No	85500
580	ELEC-9.2.5	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/Bosch	1 No	4600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
581	ELEC-9.2.6	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 / Honeywell/ Ravel/Seaara.	1 No	3700
582	ELEC-9.2.7	Supply and installation of addressable analogue manual call point with resettable flexible element to initiate alarm including the cost of mounting accessories etc. complete. Makes: Notifier / Edwards/Bosch	1 No	4500
583	ELEC-9.2.8	Supply and installation of addressable analogue manual call point with resettable flexible element to initiate alarm including the cost of mounting accessories etc. complete. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara.	1 No	4000
584	ELEC-9.2.9	Supply and installation of intelligent analogue addressable photo electric smoke detector including cost of base plate etc., complete as per specification with required fittings and accessories. Makes: Notifier / Edwards/Bosch	1 No	3800
585	ELEC-9.2.10	Supply and installation of intelligent analogue addressable photo electric smoke detector including cost of base plate etc., complete as per specification with required fittings and accessories. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara.	1 No	3350
586	ELEC-9.2.11	Supply and installation of intelligent analogue addressable rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: Notifier / Edwards/Bosch	1 No	4100
587	ELEC-9.2.12	Supply and installation of intelligent analogue addressable rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per	1 No	3600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		specifications and as required. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara.		
588	ELEC-9.2.13	Supply and installation of intelligent analogue addressable multi criterion detectors below false ceiling/on ceiling including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: Notifier / Edwards/Bosch	1 No	4200
589	ELEC-9.2.14	Supply and installation of intelligent analogue addressable multi criterion detectors below false ceiling/on ceiling including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara.	1 No	3600
590	ELEC-9.2.15	Supply and Installation of Intelligent analogue addressable Control Modules including the cost of mounting accessories complete as per specifications and as required. Makes: Notifier / Edwards/Bosch	1 No	4200
591	ELEC-9.2.16	Supply and Installation of Intelligent analogue addressable Control Modules including the cost of mounting accessories complete as per specifications and as required. Makes: Siemens / Morley / Honeywell/ Ravel/Seaara.	1 No	3700
592	ELEC-9.2.17	Supply and Installation of Intelligent analogue addressable monitor modules including the cost of mounting accessories complete as per specifications and as required. Makes: Notifier / Edwards/Bosch	1 No	4200
593	ELEC-9.2.18	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 / Honeywell/ Ravel/Seaara.	1 No	3700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
594	ELEC-9.2.19	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/Bosch	1 No	3800
595	ELEC-9.2.20	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 / Honeywell/ Ravel/Seaara.	1 No	3000
	9.3	CONVENTIONAL - FIRE ALARM SYSTEM		
596	ELEC-9.3.1	Supply, Installation, testing and commissioning of conventional Micro processor based Fire Alarm panel with, 12V SMF batteries etc., complete with all standard accessories. Makes: System Censor / Ravel/Vertex		
	a	2 Zone	1 No	13500
	b	4 Zone	1 No	14500
	c	6 Zone	1 No	15000
	d	8 Zone	1 No	15500
	e	10 Zone	1 No	19500
	f	12 Zone	1 No	22500
	g	14 Zone	1 No	25500
597	ELEC-9.3.2	Supply and installation of Repeater panel including the cost of mounting accessories complete as per specifications and as required. Makes: Makes: System Censor / Ravel/Vertex	1 No	12000
598	ELEC-9.3.3	Supply and installation of duel tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required.Makes: System Censor / Ravel/Vertex	1 No	750
599	ELEC-9.3.4	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.Makes: System Censor /	1 No	600

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Ravel/Vertex		
600	ELEC-9.3.5	Supply and installation of response indicators for above false ceiling detectors.Makes: System Censor / Ravel/Vertex	1 No	150
601	ELEC-9.3.6	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: Makes: System Censor / Ravel/Vertex	1 No	1600
602	ELEC-9.3.7	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/Vertex	1 No	1400
603	ELEC-9.3.8	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/Vertex	1 No	1300
	9.4	POWDER BASED FIRE EXTINGUISHERS		
604		Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 9 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete.		
	ELEC-9.4.1	Makes : Cease Fire / Minimax	1 No	8100
	ELEC-9.4.2	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	5200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
605		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.		
	ELEC-9.4.3	Makes : Cease Fire / Minimax	1 No	4000
	ELEC-9.4.4	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	3400
606		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 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.		
	ELEC-9.4.5	Makes : Cease Fire / Minimax	1 No	5700
	ELEC-9.4.6	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	3800
607		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.		
	ELEC-9.4.7	Makes : Cease Fire / Minimax	1 No	6500
	ELEC-9.4.8	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	5200
		CLEAN AGENT FIRE EXTINGUISHERS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
608		Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 2 KG Fire extinguisher, Stored pressure type, pressure gauge, 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 polyester powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty		
	ELEC-9.4.9	Makes : Cease Fire / Minimax	1 No	11600
	ELEC-9.4.10	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	9600
609		Supply and fixing of ISI mark (IS:15683) Clean Agent HCFC 123, 4 Kg Fire extinguisher, Stored pressure type, pressure gauge, 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 polyester powder coating, sheet metal thickness: 1.60 mm, Helium leak detection tested, 5 Years warranty.		
	ELEC-9.4.11	Makes : Cease Fire / Minimax	1 No	19500
	ELEC-9.4.12	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	17500
610		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, Epoxy coated paint (Red) with 93% gloss with 2 years warranty including transportation, all taxes and all labour charges etc complete.		
	ELEC-9.4.13	Makes : Cease Fire / Minimax	1 No	8900
	ELEC-9.4.14	Makes : Safex / Kenex / Bharat / Reliance/NewTech	1 No	6700
611	ELEC-9.4.15	Supply and fixing of Escape signage boards in Rigid Photo luminescent based glow in Dark rigid sheet with high intensity luminous properties with specification. Makes: Cease Fire or its equivalent make Model-1ES01	1 No	1200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
612	ELEC-9.4.16	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	13500
613	ELEC-9.4.17	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
614	ELEC-9.4.18	Supply and fixing of Fire bucket stand fabricated by M.S. angles to install for Four numbers of buckets as per local fire officers standards.	1 Set	1500
AEROSOL GENERATION SYSTEM (An alternative to water based sprinkler system)				
	ELEC-9.4.19	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 8 sec. The Generator has a net weight of 0.5 kg. Active Substance of 50gms. The Generator has a capacity to cover 1 m ³ . Makes: SEAARA/AGS/SALAMANDRA	1 No	4500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-9.4.20	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance.The Discharge time shall be 18 sec. The Generator has a net weight of 2 kg. Active Substance of 300 gms. The Generator has a capacity to cover 6 m ³ . Makes: SEAARA/AGS/SALAMANDRA	1 No	35000
	ELEC-9.4.21	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone . It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 22 sec. The Generator has a net weight of 3 kg. Active Substance of 0.5 kg. The Generator has a capacity to cover 10 m ³ . Makes: SEAARA/AGS/SALAMANDRA	1 No	45000
	ELEC-9.4.22	Supply,Installationand commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of	1 No	65000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 45 sec. The Generator has a net weight of 4.6 kg. Active Substance of 1 kg. The Generator has a capacity to cover 20 m³. Makes: SEAARA/AGS/SALAMANDRA</p>		
	ELEC-9.4.23	<p>Supply, Installation and commissioning of Auto Detection and Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone to make the system standalone. It can be used for all classes of fire. The product Min. Life shall be 15 years and no Maintenance. The Discharge time shall be 56 sec. The Generator has a net weight of 5.6 kg. Active Substance of 2 kg. The Generator has a capacity to cover 40 m³. Makes: SEAARA/AGS/SALAMANDRA</p>	1 No	82000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-9.4.24	Supply, Installation and commissioning of Auto Detection and Aerosol Suppression System using Non Pressurised Aerosol Generator System with detection of thermocord and Inbuilt Aerosol Sprinkler flexibility of adjusting it for a temperature of 57/68/93/141 degree centigrade as per the site environment to make the system standalone. It can be used for all classes of fire, The product Min. Life shall be 15 years and no Maintenance. The Discharge time should be 80 sec. The Generator has a net weight of 8 kg. Active Substance of 4 kg. The Generator has a capacity to cover 80 m ³ . Makes: SEAARA/AGS/SALAMANDRA	1 No	93000
	ELEC-9.4.25	Supply, Installation and commissioning of Aerosol Fire suppression control Panel is basically a 10 Zone conventional panel with LED indications for sensors is open or fire. When the fire is detected by Sprinkler, Aerosol gets activated. 10 Aerosol Sprinkler input and 10 Aerosol Generator outputs provided. The Panel consists of 10 individual manual operation switch and one master switch to activate 10 Aerosol Generator outputs simultaneously	1 No	70000
	ELEC-9.4.26	Supply, Installation and commissioning of Aerosol control Switch is a Controller for Activation of Each Aerosol Generator Makes: SEAARA/AGS/SALAMANDRA	1 No	19500

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-9.4.27	Providing 'Fire Retardant Paint 1 hr Fire Resistance can be used to 'flame retard only 100 % cotton fabric, is normally used 'to treat coarse fabric e.g. tents etc. and gives coverage of 'approx. 120 to 130 sq.ft. to a fabric of 275-325 gsm. 'Can be applied 'Meant only for 100% cotton and coarse fabric like canvas '/ tents, natural wood etc. Makes: SEAARA/AGS/SALAMANDRA	1 No	1900
	ELEC-9.4.28	Providing 'Flame retard any kind of fabric, be it 100% polyester or '100% cotton. It is normally used to flame 'retard upholstery, curtains, carpets etc., gives a coverage 'of approx. 120 to 130 sq.ft. to a fabric of 275-325 gsm.	1 No	2600
	ELEC-9.4.29	Providing 'Fire Retardant coat towards passive protection to sustain 'up to 1000 Deg.C. for 1 hour. This product can be used for 'all the materials such as cable, steel, wood, cloth & 'concrete surface etc.	1 No	4200
	9.5	FIRE HYDRANT AND SPRINKLER SYSTEM		
		ELECTRIC DRIVEN MAIN FIRE PUMPS(SPLIT CASE)		
615	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	320000
		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		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		c) M.S. Fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.		
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		
616	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	360000
		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		
617	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.		560000
		a)Horizontal type, multistage, centrifugal, split casing pump of cast iron body and 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 and 120 Metres head conforming to IS 1520.		
		b)Suitable HP SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 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 CC foundation of 1:2:4 ratio (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) duly plastered and with anti vibration pads Makes of Pumps: Kirloskar / Mather&Platt. Makes of Motors: Siemens/ ABB/ Kirloskar		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
618	ELEC-9.5.4	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	415000
		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		
	ELEC-9.5.5	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	580000
		a)Horizontal type, multistage, centrifugal, split casing pump of cast iron body and 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 and 120 Metres head conforming to IS 1520.		
		b)Suitable HP SQ cage induction motor, TEFC, synchronous speed 1470 RPM, suitable for operation on 415 volts, 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 CC foundation of 1:2:4 ratio (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) duly plastered and with anti vibration pads		
		DIESEL ENGINE DRIVEN FIRE PUMPS		
619	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	416000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 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 alluminium 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		
620	ELEC-9.5.7	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	600000
		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 alluminium 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		
621	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		725000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2280 lpm at 120 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 alluminium 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		
622	ELEC-9.5.9	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	680000
		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 alluminium 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		
623	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	775000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 Kg / sq.cm. at highest and farthest outlet at specified flow of 2850 lpm at 120 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 alluminium 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		
		ELECTRIC DRIVEN MAIN FIRE PUMPS(END SUCTION)		
624	ELEC-9.5.11	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	240000
		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		
625	ELEC 9.5.12	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	196000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		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		
626	ELEC 9.5.13	Supplying, installation, Testing and commissioning of Electric engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required		144000
		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		
		DIESEL ENGINE DRIVEN MAIN FIRE PUMPS(END SUCTION)		
627	ELEC-9.5.14	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	499000
		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		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		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		
628	ELEC-9.5.15	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	398000
		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		
629	ELEC-9.5.16	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	348000
		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		
		JOCKEY PUMPS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
630	ELEC-9.5.17	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	49000
		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		
631	ELEC-9.5.18	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	72000
		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		
632	ELEC-9.5.19	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	1set	110000
		a) Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 120 Mtr head conforming to IS 1520		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		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		
		BOOSTER PUMPS		
632	ELEC-9.5.20	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	56000
		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		
633	ELEC-9.5.21	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	43500
		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.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		d) Suitable cement concrete foundation duly plastered with anti vibration pads. Makes : Kirloskar		
634	ELEC-9.5.22	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	41500
		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		
635	ELEC-9.5.23	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	38200
		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		
		CONTROL PANELS		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	ELEC-9.5.24	Fabrication, supply, Transportation, Installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply. Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	215000
		<u>INCOMING :</u>		
		250A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
		Digital Voltmeter 0-500V with selector switch		
		Digital Ammeter (0-250 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps		
		Set of Copper Bus Bar 300A		
		<u>OUTGOING :</u>		
		(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)		
		<u>MAIN FIRE PUMP</u>		
		125 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation selector switch for local/remote, auto/manual/OFF operation.		
		<u>JOCKEY PUMP</u>		
		63 A, 50kA TPN MCCB, Ics=100% Icu, with suitable protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
		<u>DIESEL ENGINE CONTROL</u>		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Water Temp and Engine on indication. Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
	ELEC-9.5.25	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	253000
		<u>INCOMING :</u>		
		400A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
		Digital Voltmeter 0-500V with selector switch		
		Ammeter (0-400 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip		
		indicating lamps		
		Set of Copper Bus Bar 500A		
		<u>OUTGOING :</u>		
		(Note : All outgoing feeders for pumps should have		
		digital Ammeter with selector switches, and LED type		
		ON, OFF, trip indicating lamps)		
		MAIN FIRE PUMP		
		200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
		JOCKEY PUMP		
		100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
		DIESEL ENGINE CONTROL		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
	ELEC-9.5.26	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications. Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	280000
		<u>INCOMING :</u>		
		630A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
		Digital Voltmeter 0-500V with selector switch		
		Ammeter (0-630 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip		
		indicating lamps		
		Set of Copper Bus Bar 800Amps		
		<u>OUT GOING :</u>		
		(Note : All outgoing feeders for pumps should have		
		digital Ammeter with selector switches, and LED type		
		ON, OFF, trip indicating lamps)		
		<u>MAIN FIRE PUMP</u>		
		250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		
		<u>JOCKEY PUMP</u>		
		125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with over load protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<u>DIESEL ENGINE CONTROL</u>		
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
	ELEC-9.5.27	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	328000
		<u>INCOMING :</u>		
		400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
		Digital Voltmeter 0-500V with selector switch		
		Ammeter (0-400 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip		
		indicating lamps		
		Set of Copper Bus Bar 500Amps		
		<u>OUT GOING :</u>		
		(Note : All outgoing feeders for pumps should have		
		digital Ammeter with selector switches, and LED type		
		ON, OFF, trip indicating lamps)		
		MAIN FIRE PUMPS		
		125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
		JOCKEY PUMP		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
		DIESEL ENGINE CONTROL		
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indi Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
	ELEC-9.5.28	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes: L&T- D shine / Schneider-NS NSX/Legrand -DP X3/ Siemens-3VL / Hager-h3/C&S -Winbreak2 Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	392000
		<u>INCOMING :</u>		
		630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
		Digital Voltmeter 0-500V with selector switch		
		Ammeter (0-630 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip		
		indicating lamps		
		Set of Copper Bus Bar 800Amps		
		<u>OUT GOING :</u>		
		(Note : All outgoing feeders for pumps should have		
		digital Ammeter with selector switches, and LED type		
		ON, OFF, trip indicating lamps)		
		MAIN FIRE PUMP		
		200 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		JOCKEY PUMP		
		100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
		DIESEL ENGINE CONTROL		
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller.		
	ELEC-9.5.29	Designing, Supply, Transportation, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification Makes of MCCBs : L&T / Siemens / Legrand / Schneider / ABB / Hager Makes of Meters : Schneider (Conzerve) / L&T / Elmeasure / Siemens	1 No	500000
		<u>INCOMING :</u>		
		800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating		
		Digital Voltmeter 0-500V with selector switch		
		Ammeter (0-800 A) with selector switch & CTs etc.		
		LED type RYB phase indicating lamps, ON, OFF, trip		
		indicating lamps		
		Set of Copper Bus Bar 1000Amps		
		<u>OUT GOING :</u>		
		(Note : All outgoing feeders for pumps should have		
		digital Ammeter with selector switches, and LED type		
		ON, OFF, trip indicating lamps)		
		Main Fire Pump		
		250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		- 2 sets		
		JOCKEY PUMP		
		125 Amp, 50kA TPN MCCB, lcs=100% lcu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
		DIESEL ENGINE CONTROL		
		Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller		
		MS PIPES		
636	ELEC-9.5.30	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/Prakash Surya		
		C-CLASS MS PIPES		
	a	250 mm dia	1 Mtr	3400
	b	200 mm dia	1 Mtr	2950
	c	150 mm dia	1 Mtr	2250
	d	100 mm dia	1 Mtr	1400
	e	80 mm dia	1 Mtr	930
	f	65 mm dia	1 Mtr	700
	g	50 mm dia	1 Mtr	560
	h	40 mm dia	1 Mtr	475
	i	32 mm dia	1 Mtr	375
	j	25 mm dia	1 Mtr	280
		B- CLASS MS PIPES		
	a	250 mm dia	1 Mtr	3000
	b	200 mm dia	1 Mtr	2600
	c	150 mm dia	1 Mtr	1800
	d	100 mm dia	1 Mtr	1200

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	80 mm dia	1 Mtr	850
	f	65 mm dia	1 Mtr	630
	g	50 mm dia	1 Mtr	490
	h	40 mm dia	1 Mtr	370
	i	32 mm dia	1 Mtr	300
	j	25 mm dia	1 Mtr	250
637	ELEC-9.5.31	Supplying and fixing single headed Internal / External hydrant valve with instantaneous Gun metal/Stainless steel 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/ Newtech/Honeywell		
	a	Single Headed Gun Metal	1 No	7300
	b	Single Headed Stainless Steel	1 No	6500
638	ELEC-9.5.32	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 / SANT/NEU-G/Honeywell		
	a	(a) 250 mm . dia	1 No	11500
	b	(b) 200 mm . dia	1 No	4900
	c	(c) 150 mm dia	1 No	4100
	d	(d) 100 mm dia	1 No	3150
	e	(e) 80 mm dia	1 No	2900
639	ELEC-9.5.33	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: BDK / NEU-G / Leader/ Zolotto / SANT/Honeywell		
	a	a) 250mm dia	1 No	18000
	b	(b) 200 mm dia	1 No	9200
	c	(c) 150 mm dia	1 No	6600
	d	(d) 100 mm dia	1 No	3500
	e	(e) 80 mm dia	1 No	3400
	f	(f) 50 mm dia	1 No	1800

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
640	ELEC-9.5.34	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 /SANT/NEU-G/Honeywell		
	a	250 mm . dia	1 No	15300
	b	200 mm . dia	1 No	11000
	c	150 mm dia	1 No	7000
	d	100 mm dia	1 No	4700
	e	80 mm dia	1 No	3500
	f	(50 mm dia	1 No	2800
641	ELEC-9.5.35	Providing, installation, testing and commissioning of gun metal valves of following sizes as required. Make: NEU-G/Zolotto/Padmini/SANT/Honeywell		
	a	50 mm dia	1 No	1600
	b	40 mm dia	1 No	1300
	c	32 mm dia	1 No	1175
642	ELEC-9.5.36	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/NewTech/Honeywell		
	a	Gun metal	1 No	5630
	b	SS couplings	1 No	4200
643	ELEC-9.5.37	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/NewTech/Honeywell		
	a	Gun metal	1 No	4800
	b	SS couplings	1 No	4000
644	ELEC-9.5.38	Supply, installation, testing and commissioning of stainless steel Y – Stainer fabricated outof 1.6 mm thick SS 304 with following sizes confirming to IS specifications complete with rubber gasket, GI bolts , nuts, washers etc as required Makes: Leader / Zolotto/SANT/Honeywell.		
	a	250mm dia	1 No	18400
	b	200 mm . dia	1 No	17000
	c	150 mm dia	1 No	8000
	d	100 mm dia	1 No	4300

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	80 mm dia	1 No	3900
645	ELEC-9.5.39	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	6700
		a) 36.6 Mtr Long 20mm (Nominal internal) dia water hose Thermoplastic / Textile reinforced / Rubber braided / Polypropylene Type - 2 as per IS:12585 Makes: Reliance/ Newage/ Safex/NewTech/Winco/Minimax		
		b) 20mm (Nominal internal) dia gun metal ball/gate valve and nozzle. Makes:NEU-G/SANT / Safex.		
		c) Drum and brackets for fixing the equipments on wall.		
		d) Connections from riser with 25mm dia stop valve (gun metal) & MS pipe.		
646	ELEC-9.5.40	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. makes:Minimax/Safex/Newage/Winco /Padmini/NewTech	1 No	2900
647	ELEC-9.5.41	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/NewTech		
	a	Gun metal	1 No	2200
	b	SS couplings	1 No	1600
648	ELEC-9.5.42	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 /	1 No	8000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Minimax/NewTech/Honeywell		
649	ELEC-9.5.43	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/NewTech/Honeywell	1 No	6000
650	ELEC-9.5.44	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	14300
651	ELEC-9.5.45	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	440
652	ELEC-9.5.46	Supply fixing, testing and commissioning of UL approved flexible dropper of 1.5 mtr length with required accessories Makes: HD / TYCO / VIKING / NEWAGE/ SHARP / SAFEX	1 No	1050
653	ELEC-9.5.47	Providing and fixing of Pressure Switch in the MS pipe Line including connection etc as required. Makes : Danfoss / Indfoss /Systemsensor/Honeywell	1 No	2250
654	ELEC-9.5.48	Providing and fixing Flow Switches in 100mm dia MS pipe. Makes : System Sensor / Switzer /Honeywell	1 No	4800
655	ELEC-9.5.49	Providing and fixing Flow Switches in 150 mm dia MS pipe. Makes : System Sensor / Switzer /Honeywell	1 No	6700

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
656	ELEC-9.5.50	Supply, installation, testing and commissioning of Bourden type, stainless steel dial type pressure gauge with isolation valve and pipe having calibration of 0-16 kg/cm ² . MAKES: HGURU / FIEBIG	1 No	600
657	ELEC-9.5.51	Supply, installation, testing and commissioning of 25mm dia Gate valve Makes : Zoloto / Leader / SANT/NEU-G	1 No	1050
658	ELEC-9.5.52	Supply, installation, testing and commissioning of 25mm dia Ball valve Makes : Zoloto / Leader / SANT/NEU-G	1 No	580
659	ELEC-9.5.53	Supply, installation, testing and commissioning of 25 / 20mm dia Air Release Valve Makes : Zoloto / Leader / SANT	1 No	1100
	ELEC-9.5.54	Supply, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required Makes : Tyko/Newage/HD		
	a	750mm to 800 mm	1 No	900
	b	1000 mm to 1200 mm	1 No	1050
	c	1500 mm	1 No	1250
660	ELEC-9.5.55	Providing, fixing, testing & commissioning of installation control valve of cast iron body,brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and 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 following sizes as required : Makes : HD / TYCO / NEWAGE		
	a	80mm dia	1 No	36000
	b	100mm dia	1 No	38000
	c	150mm dia	1 No	40000
661	ELEC-9.5.56	Supplying, installing, testing and commissioning of CI body Foot Valve with brass strainer with necessary flanges, nuts and bolts etc., complete on to the suction line. Makes:Normex /SANT		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	a	a) 200mm nominal dia	1 Ea	22300
	b	b) 150mm nominal dia	1 Ea	12000
	c	c) 100mm nominal dia	1 Ea	6700
	d	d) 80mm nominal dia	1 Ea	4600
	ELEC-9.5.57	Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings -As per Civil SoR		
662	ELEC-9.5.58	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. Make:IWL(PIPE KOT) or its equivalent		
	a	a) 200mm nominal dia	1 Mtr	400
	b	b) 150mm nominal dia	1 Mtr	300
	c	c) 100mm nominal dia	1 Mtr	270
	d	d) 80mm nominal dia	1 Mtr	230
663	ELEC-9.5.59	Supply, fabricating , installing structural steel supports for fixing all sizes of MS pipes from ceiling / wall with MS Channels, Angles, Flats, Rods, as required at site with anchor fasteners, Clamps, threaded rods, nuts, bolts,washers etc complete with painting.	1 Kg	63
		SECTION 10		
	10.1	GENERATORS SPECIFICATION		
664	ELEC-10.1.1	<p>Supply Installation Testing And commissioning of DG Set complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled.</p> <p>Alternator: It shall be self regulated, self excited and conforms to IS: 13364/1992 or latest version with regulation of +5% from No load to full load, IP23, with standard Alternator Protection(Over voltage, over speed & under voltage).</p> <p>Diesel Engine: It shall have residential silencer, up to 10 M exhaust piping , electronic / Mechanical governor, Manual & electric Start, Batteries, Fuel tank (with Stand) & piping, control panel (16 G) with MCCB (4P; 25 KA), Ammeter, Voltmeter, Frequency Meter, Energy Meter & Hour Meter, Engine instruments panel and AVM. The diesel engine shall be capable of providing 10% over load for 1 Hr for every 11 Hrs of continuous running at full load.</p> <p>Acoustic Enclosure: Weatherproof, powder coated Acoustic enclosure for DG set for sound attenuation fabricated from 1.6 mm CRCA sheet steel (structure) with side wall fabricated from 1.6 mm CRCA sheet</p>		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		and filled with foam as per CPCB norms latest amendments & IS 8183 .The doors are fabricated from 1.6 mm CRCA sheet packed with acoustic material, floor of MS chequered plate 5.0 mmthick, All doors/ opening are sealed with neoprene/ EPDN gaskets.		
		The enclosure has built in fuel tank, residential silencer (isolated from main DG chamber) with protection and tripping of DG set against temperature of more than 50 °C. All controls for operation of DG set are from outside the enclosure with DG control panel having processor based genset monitoring and control system MCCB/ACB Ammeter, voltmeter, Pf meter, frequency meter, KWH meter, Ind. Lamps etc. mounted inside enclosure , visible and accessible from outside. The enclosure should be suitable for following capacity DG sets and alternator.Noise level is less than 75 db (A) at a distance of 1 Mtrs as per CPCB-II norms,complete in all respect of following capacity :		
		Radiator Cooled and Turbocharged		
	a	15 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	340000
	b	30 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	440000
	c	40 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	548000
	d	62.5kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	630000
	e	125 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	825000
	(a to e)	Engine Makes:Cummins/Koel Green/Sterling/ mahindra/Elmot Power Gen Alternator Make:Stamford/ Kirloskar/ CromptonGreaves /Leroysoner		
	f	160 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	1080000
	g	DELETED	1 No	
	h	250 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	1450000
	i	320 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	2250000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	j	380 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	2870000
	(f to j)	Engine Makes:Caterpillar/Cummins/Koel Green/Mahindra/Elmot power Gen Alternator Make:Leroy somer/Crompton Greaves/Stamford		
	k	500kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	3150000
	l	625 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	3800000
	m	750 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	4730000
	n	1000 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	5700000
	o	1250 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	7700000
	p	1500 kVA at 0.8 pf 415V 50Hz 3-Ø	1 No	8740000
	(k to p)	Engine Makes:Caterpillar/Perkins/Cummins Alternator Make:Leroy somer/Crompton Greaves/Stamford		
665	ELEC-10.1.2	Supply Installation Testing and Commissioning of AUTO MAINS FAILURE (AMF) Panel with IP 52 protection, fabricated from CRCA sheet steel 2mm Thick, Powder coated finish, Engine START & STOP commands, control RELAYS, selector switches for Ammeter & Voltmeter, Ammeter & Voltmeter, Control & Power Contactors, Timers, Electronic Hooter, Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for following capacity DG sets:		
		PLC based AMF Panel		
	a	25 to 40 KVA	1 No	75000
	b	50 to 63.5 KVA	1 No	110000
	c	80 to 160 KVA	1 No	155000
	d	180 to 250 KVA	1 No	210000
	e	320 to 500 KVA	1 No	260000
		Electro-Mechanical Relay Based AMF Panel		
	f	25 to 63.5 KVA	1 No	55000
	g	80 to 180 KVA	1 No	92500
	h	200 to 500 KVA	1 No	135000
666	ELEC-10.1.3	Supply and fixing of Thermal Insulation With Asbestos Rope for Exhaust pipe	Mtr	251
667	ELEC-10.1.4	Supply and fixing of Thermal Insulation With Rock/Glass Wool with Alluminium cladding (Density - 96 Kg/m ³ thickness -50mm) for	Mtr	1247

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Exhaust pipe		
		SECTION 11		
	11.1	INVERTERS and ONLINE UPS SYSTEMS		
668	ELEC-11.1.1	Supply and installation of Inverter(home UPS system) pure sine wave out put, single phase input / Single phase output. Makes: Exide / Amar Raja / Samhitha/ Microtek		
	a	800 VA, 12 V DC	1 No	8500
	b	1400 VA, 24 V DC	1No	12000
	c	2000 VA, 36 V DC	1No	17000
669	ELEC-11.1.2	Supply installation Testing and commissioning of KVA on line UPS system confirms to IS 16242(Part-I):2014 and IEC 60240-1 : 2008 with IGBT technology pure sine wave out put, double conversion with auto and manual static by pass switch single phase input / Single phase output. Makes: Numeric/APC/Consul Neowatt/Sakshham /Emerson		
	a	2.0 KVA , 72/96VDC	1 No	24000
	b	3.0 KVA , 72/96 VDC	1 No	33000
	c	3.0 KVA , 72/96 VDC with Isolation Transformer	1 No	37800
	d	6.0 KVA , 192/240 VDC with Isolation Transformer	1 No	65000
	e	7.0 KVA , 192/240 VDC with Isolation Transformer	1 No	78500
	f	10.0 KVA , 192-240 VDC with Isolation Transformer	1 No	94500
670	ELEC-11.1.3	Supply installation Testing and commissioning of KVA on line UPS system as per IEC 62040-I(Safety) ,IEC 62040-3(Performance) for critical IT solutions ,fully digital IGBT Converter and Inverter ,with Internal /External isolation transformer from DC to AC, PWM, pure sine wave out put, double conversion ,output pf 0.9, with parallelling facility , standard communicaton features/options auto and manual static by pass switch three phase input / Three phase output. Accoustic level shall be less than 58dB at 1 mtr distance. Makes: Numeric/APC/Consul Neowatt/Sakshham /Emerson		
	a	10.0 KVA 312/360 V DC	1 No	165000
	b	15.0 KVA 312/360 V DC	1 No	180000
	c	20.0 KVA 312/360 V DC	1 No	210000
	d	30.0 KVA 312/360 V DC	1 No	275000

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	e	40.0 KVA 312/360 V DC	1 No	350000
671	ELEC-11.1.4	Supply installation Testing and commissioning of KVA on line UPS system as per IEC 62040-1(Safety) ,IEC 62040-3(Performance) for critical IT solutions ,fully digital IGBT Converter and Inverter ,with Internal /External isolation transformer from DC to AC, PWM, pure sine wave output, double conversion ,output pf 0.9, with parallelling facility , standard communication features/options auto and manual static by pass switch three phase input / Three phase output. Accoustic level shall be less than 58dB at 1 mtr distance. Makes: Mitsubishi/ Socomec /Schiender(APC)/ Legrand/Consul NeoWatt		
	a	60 KVA	1 No	650000
	b	80.0 KVA	1 No	850000
	c	100.0 KVA	1 No	985000
	d	120.0 KVA	1 No	1118000
	e	160.0 KVA	1 No	1248000
	f	200.0 KVA	1 No	1274000
672	ELEC-11.1.5	Supply and providing of UPS cum battery rack up to 4 batteries	1 No	1500
673	ELEC-11.1.6	Supply and providing of battery rack for 5 to 10 batteries (42 AH)	1 No	3000
674	ELEC-11.1.7	Supply and providing of battery rack upto 11 to 20 batteries (42 AH)	1 No	5000
675	ELEC-11.1.8	Supply and providing of battery rack upto 20 to 30 batteries (65 & 100 AH)	1 No	9000
676	ELEC-11.1.9	Supply and fixing of 12V 26 AH SMF battery with 3 years Warrenty, including wire leads ,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	3200
677	ELEC-11.1.10	Supply and fixing of 12V 42 AH SMF battery with 3 years Warrentyincluding wire leads ,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	5700
678	ELEC-11.1.11	Supply and fixing of 12V 65 AH SMF battery with 3 years warrenty including wire leads ,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	7200
679	ELEC-11.1.12	Supply and fixing of 12V 100 AH SMF battery with 3 years warrenty including wire leads,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	10440

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
680	ELEC-11.1.13	Supply and fixing of 12V 120/130 AH SMF battery with 3 years warrenty including wire leads,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	11160
681	ELEC-11.1.14	Supply and fixing of 12V, 150 AH SMF battery with 3 years warrentyincluding wire leads,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	15600
682	ELEC-11.1.15	Supply and fixing of 12V, 200 AH SMF battery with 3 years warrenty including wire leads ,connections etc complete., Makes: Quanta / Racket / Exide.	1 No	21600
683	ELEC-11.1.16	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	deleted
684	ELEC-11.1.17	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	12000
		SECTION - 12		
	12.1	TEMPORARY ILLUMINATION		
685	ELEC-12.1.1	Hire charges for Temporary illumination, consisting of 20W LED tube light complete with required switchgears with continuous earth wire duly erected and dismantled with required scaffolding including cost and conveyance of all materials and labour charges etc., complete for one day.	1 No	35.00
686	ELEC-12.1.2	Hire charges for Temporary illumination, consisting of flood light fitting 1000/500W complete halogen fitting with lamp, holders, mains and required switchgears with continuous earth wire erected and dismantled with required scaffolding for one day.	1 No	292.00
687	ELEC-12.1.3	Hire charges for Temporary illumination, consisting of 400W Metalhalide flood light fitting with lamp,holders,mains and required switchgears with continuous earth	1 No	343.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		wire erected and dismantled with required scaffolding for one day.		
688	ELEC-12.1.4	Hire charges for Temporary illumination, consisting of 400W Metal Halide flood light fitting with Coloured lamp (Blue / Pink / Yellow / Red etc.), holders, mains and required switchgears with continuous earth wire erected and dismantled with required scaffolding for one day.	1 No	375.00
689	ELEC-12.1.5	Hire charges for Temporary illumination, consisting of 54 W LED RGB Parcan light fitting non integral, weather proof die cast aluminium housing with IP66 protection with control gear box, control gear with required cables, holder, mains duly erected with required scaffolding and dismantled on existing poles including cost and conveyance of all materials and labour charges etc., complete for one day.	1 No	363.00
690	ELEC-12.1.6	Hire charges for providing temporary illumination consisting of flood light fitting 150/200 W complete LED fitting with lamp, complete required switchgear erected and dismantled with using scaffolding for one day.	1 No	418.00
691	ELEC-12.1.7	Hire charges for temporary illumination consisting of strip lights 8mm LED lights of various colors (Navar Patta) complete with holders, required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	1310.00
692	ELEC-12.1.8	Hire charges for temporary illumination consisting of white color series lights with miniature lamps of 8mm LED lights with required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for	1000 Nos	900.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		one day.		
693	ELEC-12.1.9	Hire charges for temporary illumination consisting of LED RGB pixel series strip lights 8mm LED lights of various colors (Navar Patta) complete with holders, required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	1115.00
694	ELEC-12.1.10	Hire charges for temporary illumination consisting LED,RGB pixel series lights with miniature lamps of 8mm LED lights with required wire leads erected and dismantled including required scaffolding and T&P including cost and conveyance of all materials and all labour charges etc., complete for one day.	1000 Nos	715.00
695	ELEC-12.1.11	Hire Charges for National Flag of size 8"x4"Comprising LED's with required wire leads and switch gear etc., complete for one day.	1 No	5000.00
696	ELEC-12.1.12	Hire charges for supply and maintaining of oscillating type pedestal air circulators 600/900 mm connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	160.00
697	ELEC-12.1.13	Hire charges for supply and maintaining of oscillating type pedestal fan 16" (400 mm) or ceiling fan connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	147.00
698	ELEC-12.1.14	Hire charges for Providing 1.1KW , 24500 m3/Hr Air cooler and required materials with necessary mains switch gear with continues earth lead during function duly removing including cost and conveyance of all materials and labour charges etc.,	1 No	1240.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		complete for one day.		
699	ELEC-12.1.15	Hire charges for supply and maintaining of heavy duty exhaust fan 18" or 24" connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	147.00
700	ELEC-12.1.16	Hire charges for supply and maintaining of plug points with 16A/6A 5 Pin socket and switch with necessary mains, required switchgears and continuous earth connection for one day.	1 No	62.00
701	ELEC-12.1.17	Hire charges for supply and maintaining 280 litres capacity refrigerator complete with M.S. stand if necessary connected with mains, switchgear and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	500.00
702	ELEC-12.1.18	Hire charges for supply and maintaining 120/150 liter capacity water cooler with water filter (candle type or UV tube) with M.S. stand complete with minor plumbing work if necessary connected with mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	1100.00
703	ELEC-12.1.19	Hire charges for supply and maintaining 20"/24" colour television with multi channel tuner, connected with necessary mains, required switchgears with continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	360.00
704	ELEC-12.1.20	Providing and maintaining temporary LCD/LED colour T.V. (32" to 42" size) and positioning at site with required cabling as per direction of authority, duly connecting and testing for one day.	1 No	750.00
705	ELEC-12.1.21	Hire charges for supply and maintaining 6V/10V with 20/40 Watt fluorescent emergency lamp connected with necessary mains,	1 No	100.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.		
706	ELEC-12.1.22	Hire charges for supply and maintaining digital projector with spring loaded white screen connected with necessary mains, required switchgears and maintaining the same during the function including dismantling for one day.	1 No	5100.00
707	ELEC-12.1.23	Hire charges for providing 1.5/2.0 Ton capacity split type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	4200.00
708	ELEC-12.1.24	Hire charges for providing 3.5 Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing maintaining the same during the function and including dismantling for one day.	1 No	4800.00
709	ELEC-12.1.25	Hire charges for providing 4.5 Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to achieve cooling temperature connected along with necessary mains, required switchgears and continuous earthing, maintaining the same during the function and including dismantling for one day.	1 No	5500.00
710	ELEC-12.1.26	Hire charges for providing 6.5Ton/7.5Ton capacity tower type air conditioning unit complete with temporary stand and fabrication work and required material to	1 No	6500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		achieve cooling temperature connected along with necessary mains,required switchgears and continuous earthing, maintaining the same during the function and including dismantling for one day.		
711	ELEC-12.1.27	Hire charges for providing, maintaining and operating temporary public address system on hire consisting 02 Nos. solid state heavy wattage amplifier 250 watts (one for working and another for stand by emergency) working on AC / generator and 24 volt car battery supply, 06 Nos. of matching of 100 volt line (200 watts) box type speakers/sound column, 02 Nos super sensitive microphone with suitable size of microphone holding stand. The system shall be in a fully automatic change over operation in case of failure of supply for one day.	1 No	7500.00
712	ELEC-12.1.28	Hire charges for providing and maintaining temporary additional box type speaker of 100 Volt line (100 watts) for one day.	1 No	350.00
713	ELEC-12.1.29	Hire charges for providing and maintaining temporary cordless (Hand type or lape type) super sensitive HUF microphone (1 no stand by) for one day.	1 No	2430.00
714	ELEC-12.1.30	Providing temporary line matching transformer (40-XT) for speakers having distance more than 60 Mtrs from Amplifiers and maintaining the same for one day.	1 No	200.00
715	ELEC-12.1.31	Hire charges for providing, maintaining and operating fingertip switcher of 8 ways to operate the public address system between dias and participants in the hall with necessary cabling, wiring etc for one day.	1 No	2500.00
716	ELEC-12.1.32	Hire charges providing and maintaining all in one desktop PC with following configuration Intel TM second generation core i3 G630,2GB DDR3 RAM, 1TB HARD DISK, DVDR W optical drive 20" LED screen, web	1 No	1000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		camera, wifi, bluetooth, keyboard and mouse, media card reader etc for one day.		
717	ELEC-12.1.33	Hire charges providing and maintaining Laser Printer, resolution (in dpi) mono 600, paper size A4, print speed in PPM (A4 size) 25, Port: 1 USB, memory (in MB): NA network card 10/100:YES, Duplexing: YES etc for one day.	1 No	300.00
718	ELEC-12.1.34	Hire charges for providing and maintaining 1 KVA on line UPS pure sine wave suitable for 30 minutes battery backup to provided computer with necessary interconnecting cabling, wiring etc for one day.	1 No	1650.00
719	ELEC-12.1.35	Hire cahres for providing and maintaining temporary 1400 VA to 1600 VA digital pure sine wave Invertor based on IGBT technology suitable for 120 minutes battery backup to electrical installation with necessary interconnecting cabling, wiring etc for one day.	1 No	1000.00
720	ELEC-12.1.36	Hire charges for supply and fixing distribution main board consisting of 400A/250A 4pole MCCB with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1346.00
721	ELEC-12.1.37	Hire charges for Supply & Fixing of Distribution board of load main board consisting of 400A MCCB 4 pole with Busbar arrangement and 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1374.00
722	ELEC-12.1.38	Hire charges for Supply & Fixing of Distribution board of load main board consisting of 250A MCCB 4 pole with Busbar arrangement and 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1318.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
723	ELEC-12.1.39	Hire charges for supply and maintaining towards supply and fixing of 200A 4 pole Changeover / TPN switches including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	305.00
724	ELEC-12.1.40	Hire charges for supply and fixing distribution main board consisting of 400A/250A 4pole change over switch with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1302.00
725	ELEC-12.1.41	Hire charges for supply and fixing distribution main board consisting of 250A 4pole change over switch with bus bar arrangement 12 Nos 63A fuse units as out going including conveyance of all materials and all labour charges etc., complete for one day.	1 No	1257.00
726	ELEC-12.1.42	Hire charges for Supply and maintaining towards supply and fixing of 4 way TPN DB with 1 No 125 TP MCCB and 12Nos 6-32A 10kA SP MCBs including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	1160.00
727	ELEC-12.1.43	Hire charges for Supply and maintaining towards supply and fixing of 6 way TPN DB with IP-43 Protection with 1 No 125 FP MCCB and 18Nos 6-32A 10kA SP MCBs including erection and dismantling and cost and conveyance of all materials and labour charges complete for one day.	1 No	1201.00
728	ELEC-12.1.44	Hire charges for providing industrial type panel board consisting of bus bar chamber with 200/250 amps incoming TP/MCCB as incomers switch, 12 nos 63 amps fuse unit, earth wire erected and dismantled all accessories etc., complete for one day.	1 No	464.00
729	ELEC-12.1.45	Hire charges for supply and installing and maintaining towards supply and run of 1 of 6/10 Sq.mm WPTC / 2 of WPSC / VIR cable with necessary terminations etc. complete for one	1 Mtr	5.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		day.		
730	ELEC-12.1.46	Hire charges for supply and installing and maintaining towards supply and run of 16 Sq.mm to 35 Sqmm x 3 1/2 core cable / 4 of single core 16 Sqmm to 35 Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	25.00
731	ELEC-12.1.47	Hire charges for supply and installing and maintaining towards supply and run of 50Sqmm to 95 Sq.mm x 3 1/2 core cable / 4 of single core 50Sqmm to 95Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	27.00
732	ELEC-12.1.48	Hire charges for supply and installing and maintaining towards supply and run of 50 Sqmm x 3 1/2 core cable / 4 of single core 50 Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	26.00
733	ELEC-12.1.49	Hire charges for supply and installing and maintaining towards supply and run of 95 Sq.mm x 3 1/2 core cable / 4 of single core 95Sqmm cable with necessary terminations etc. complete for one day.	1 Mtr	28.00
734	ELEC-12.1.50	Hire charges for supply and installing and maintaining towards supply and run of 120 Sq.mm x 3 1/2 core cable / 4 of single core 120 Sq.mm cable with necessary terminations etc. complete for one day.	1 Mtr	29.00
735	ELEC-12.1.51	Hire charges for supply and installing and maintaining towards supply and run of 185 Sq.mm x 3 1/2 core cable / 4 of single core 185 Sq.mm cable with necessary terminations etc. complete for one day.	1 Mtr	32.00
736	ELEC-12.1.52	Hire chages for Supply and erection of MS Single pole structure of 20' (6.00 Mtrs.) with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings etc., and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	1571.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
737	ELEC-12.1.53	Hire charges for Supply and erection of 4 pole structure of 4 of 25' (7.50 Mtrs.) GI pipe of 63/80mm dia with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings with suitable earthing arrangements and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	2084.00
738	ELEC-12.1.54	Hire charges for Supply and erection of 6 pole structure of 6 of 25' (7.50 Mtrs.) GI pipe of 63/80mm dia with necessary cross arms and hardware materials for fixing halogen / Metal halide fittings with suitable earthing arrangements and dismantling and cost and conveyance of all materials and all labour charges complete for one day.	1 No	3134.00
739	ELEC-12.1.55	Hire charges for providing, commissioning and maintaining CCTV system with 8 channel NVR, IP video/audio input - 1 no, IP based 2.0 MP, Full HD, IR IP dome camera - 2 nos, IP based 2.0 MP, Full HD, IR IP PTZ camera - 2 nos, 2TB Hard Disk - 2 no, 32" Full H D professional Display - 1 no, 8 port PoE Switch - 1 no, Power supply unit to camera - 1 no, On Line UPS - 1 no with necessary mains, switchgears for one day	1 Job	7140.00
740	ELEC-12.1.56	Hire charges for providing, commissioning and maintaining IP based 2.0 MP, full HD, IR IP dome / bullet camera with necessary Cat 6 cables etc., for one day.	1 No	890.00
741	ELEC-12.1.57	Hire charges for providing, commissioning and maintaining IP based 2.0 MP, Full HD, IR IP PTZ camera with necessary Cat 6 cables etc., for one day.	1 No	2460.00
	Note:-	1) The Rates for all the items are for one glowing / working day		
		2) Allow 50% of the rate for each day upto 3 days (i.e, 2nd and 3rd day) (Except items 12.1.23 to 12.1.26) .		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		3) For each additional day after 3 days, but not exceeding 15 days, allow 25% rate.		
		4) For more than 15 days allow 10% per day but total rental charges shall not exceed 80% of the capital cost of the item.		
		5) For item no. 12.1.22 the rates of projector is for 1 function or for max. period of 1 day whichever is more, including transportation, connections with projector, operator till completion of function.		
		6) For item No 12.1.23 to 12.1.26, the rate is for one day, For subsequent days (i.e, 2nd to 8th day) allow 75% of the above rate, after 8th day allow 50% the rate.		
		12.2 Hiring of Generators		
742	ELEC-12.2.1	Hire charges for supplying and maintaining 62.5KVA, 415V, 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	6825.00
743	ELEC-12.2.2	Hire charges for supplying and maintaining 125KVA 415V 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	7800.00
744	ELEC-12.2.3	Hire charges for supplying and maintaining 250KVA 415V 50 cycles A.C.Generating set with acoustic enclosure as per IS Specification with DCM 4 Wheeler Vehicle with all standard accessories such as control panel, batteries etc. complete excluding cost of fuel, for one day.	1 No	10925.00
	Note:-	1) Above rates are applicable for per one day only.		
		2) For subsequent days the above rate shall be reduced by 25% after 8th day reduce the rate by 50%		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		3) Diesel cost will be paid extra for running hours at the prevailing rates.		
		4) For test run,. The minimum requirement of the fuel shall be born by the contractor.		
		5) The D.G set should be in good conditin and the life of set shall not be beyond 10 years.		
	13.1	LIFTS (New Installation)		
745	ELEC-13.1.1	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 8 Passenger/544Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 800 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor <p>Clear Car size of .....mm wide x .....mm deep x .....mm high</p>	1Job	1059400.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength • Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work 		
		<p>Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> •Lift shaft available having clear size of .....mm wide x .....mm deep. ....mm Pit depth, .....mm Overhead. 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
746	ELEC-13.1.2	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of makes:Kone/Otis/Schindler/Mitsubishi/Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 10 Passenger/680Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 800 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor. <p>Clear Car size of .....mm wide x .....mm deep x .....mm high</p>	1Job	1267300.00
		<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>copper wire for power & control circuit, with provision for addition of floor/ control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class</p> <ul style="list-style-type: none"> • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing. • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. • Other mechanical parts such as 'T' section adequate size guiderails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work 		
		<ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep ,mm Pit depth, ,mm Overhead. 		
747	ELEC-13.1.3	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 13 Passenger/884Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs. • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 	1Job	1353000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>900/1000 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/ frames</p> <ul style="list-style-type: none"> • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x ....mm deep x .....mm high 		
		<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor /control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work		
		<ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, .....mm Overhead 		
748	ELEC-13.1.4	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 15 Passenger/1020Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 800/900/1000 mm wide x 2000mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves /frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, 	1Job	1586000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor Clear Car size of .....mm wide x .....mm deep x .....mm high		
		<ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings 		
		<ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/ control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>traction sheaves, suspension wire ropes/belts of adequate size & strength</p> <p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery 		
		<p>, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> • Lift shaft available having clear size of .....mm wide x .....mm deep ,mm Pit depth, ,mm Overhead 		
749	ELEC-13.1.5	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 20 Passenger/1360Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100/1200 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. 	1Job	1891300.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<ul style="list-style-type: none"> • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x ....mm deep x .....mm high 		
		<p>LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings</p> <ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge. • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		&strength.		
		<p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, .....mm Overhead. 		
750	ELEC-13.1.6	<p>Supply,Installation,Testing and Commissioning of Electric Traction Passenger Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> • Rated capacity :- 22 Passenger/1496Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MRL • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around 	1Job	1940200.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor</p> <ul style="list-style-type: none"> • Clear Car size of .....mm wide x .....mm deep x .....mm high • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual 		
		<p>indication at all landings Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class</p> <ul style="list-style-type: none"> • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, <p>Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength</p> <ul style="list-style-type: none"> • Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary 		
		<p>support arrangement, MS pit ladder etc. erected with necessary steel work Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core</p>		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. • Lift shaft available having clear size of .....mm wide x .....mm deep, .....mm Pit depth, .....mm Overhead.		
751	ELEC-13.1.7	Supply,Installation,Testing and Commissioning of Electric Traction Passenger cum Stretcher/Hospital Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with • Rated capacity :- 26 Passenger/1768Kg • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MR • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 1100/1200 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor • Clear Car size of .....mm wide x .....mm deep x .....mm high	1Job	2069800.00
		•LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>indicator having metallic push buttons with Braille Code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings</p> <p>Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class</p> <ul style="list-style-type: none"> • ARD complete with necessary SMF VRLA batteries • Fireman controller having fireman switch at fire Landing, • CCTV surveillance system comprises of 2nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for 60 days with 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge. <p>Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts</p>		
		<p>of adequate size & strength</p> <ul style="list-style-type: none"> • Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work • Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. 		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		complete as per specification no. LFT. <ul style="list-style-type: none"> Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead. 		
752	ELEC-13.1.8	<p>Supply,Installation,Testing and Commissioning of Electric Traction Goods Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> Rated capacity :- 3000Kg Goods/44 Passengers Floors :- G+1 floor (2Stops/2 Landings) Travel :- 3 to 4.2 mtrs Location of Lift Machine:- MR Rated speed :- 0.6 to 1.0mps <p>VS</p> <ul style="list-style-type: none"> Doors type :- COPO/TOPO Doors with frame having clear opening of 1700 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor Clear Car size of .....mm wide x .....mm deep x .....mm high LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button with 	1Job	2512600.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>CPI, Lift car arrival & next travel direction audio-visual indication at all landings</p> <ul style="list-style-type: none"> Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries Fireman controller having fireman switch at fire Landing, Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength <p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter</p>		
		<p>weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> Minor civil work for alteration if any and erection of door frames and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT. Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead. 		
753	ELEC-13.1.9	<p>Supply,Installation,Testing and Commissioning of Electric Traction Goods Lift of makes:Kone/Otis/Schindler/Mitsubishi /Johnson with</p> <ul style="list-style-type: none"> Rated capacity :- 4000Kg 	1Job	2782500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>Goods /59 Passengers</p> <ul style="list-style-type: none"> • Floors :- G+1 floor (2Stops/2 Landings) • Travel :- 3 to 4.2 mtrs • Location of Lift Machine:- MR • Rated speed :- 0.6 to 1.0mps <p>VS</p> <ul style="list-style-type: none"> • Doors type :- COPO/TOPO Doors with frame having clear opening of 2100 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames • Lift car enclosure made from SS 304 grade sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. • COP with SS face plate having metallic push buttons with Braille Code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with/without attendant key switch, OWD with audio-visual alarm, VAS in Telugu & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor <p>Clear Car size of .....mm wide x .....mm deep x .....mm high</p> <ul style="list-style-type: none"> • LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille Code & luminous indicator around button <p>with CPI, Lift car arrival & next travel direction audio-visual</p>		
		<p>indication at all landings</p> <ul style="list-style-type: none"> • Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port, control panel duly wired with proper size & strength copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories <p>control panel having enclosure of</p>		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		<p>1.5mm CRCA sheet with powder coating with IP54 Protection class ARD complete with necessary SMF VRLA batteries</p> <ul style="list-style-type: none"> • Fireman controller having fireman switch at fire Landing, • Lift Machine of Gearless PMSM of suitable kW with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. <p>Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work</p> <ul style="list-style-type: none"> • Minor civil work for alteration if any and erection of door frames 		
		<p>and accessories, erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails fixing of girders for mounting lift machine etc. complete as per specification no. LFT.</p> <ul style="list-style-type: none"> • Lift shaft available having clear size of .....mm wide x.....mm deep, .....mm Pit depth, .....mm Overhead. 		
	NOTE:	<p>1. The above rates are applicable only for the makes: KONE/OTIS/SCHINDLER/MITSUBISHI/JOHNSON.</p>		
		<p>2. If the local reputed brands preferred by the Departments or Corporations, the makes Suryodaya Elevators/ESCO Lifts/Sunrise Lifts/ or any other make approved by the competent authority subject to the condition that the Specifications remains unchanged can be adopted in the estimate by reducing the price @15% less than the above rates.</p>		
		Add On		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	A	For Lift travelling up to six floors or at a speed of 1.0 mps, add as below,		
754	1	For Lift having 700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	130650.00
755	2	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, traveling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	134600.00
756	3	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	139300.00
757	4	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safefunctioning of lift	1Floor	143500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		installation complete		
758	5	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landingdoors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	147800.00
759	6	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	152900.00
760	7	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons- arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landingdoors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	157600.00
761	8	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation	1Floor	162400.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		complete		
762	9	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	170600.00
763	10	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	178900.00
764	11	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	188000.00
765	12	For Lift having 2100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift	1Floor	204800.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		installation complete		
766	13	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	211900.00
	A1	For Lift travelling above six floors & up to fifteen floors or at a speed of 1.5 mps, add as below,		
767	1	For Lift having 700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	136500.00
768	2	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	140700.00
769	3	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling	1Floor	145600.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
770	4	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	149900.00
771	5	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	154400.00
772	6	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	159800.00
773	7	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons- arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts,	1Floor	164600.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		&OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete		
774	8	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	169600.00
775	9	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	178100.00
776	10	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	186900.00
777	11	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all	1Floor	196300.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		accessories etc. necessary for the normal safe functioning of lift installation complete		
778	12	For Lift having 2100mm wide x 2000mm high clear entrance 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	213900.00
779	13	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope landing doors with all accessories etc. necessary for the normal safe functioning of lift installation complete	1Floor	221400.00
	A2	For Lift travelling above fifteen floors & up to twenty floors or at a speed of 1.75 mps, add as below,		
780	1	For Lift having 800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	144800.00
781	2	For Lift having 900mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts,	1Floor	149900.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		&OSG rope, landingdoors with all accessories etc. complete for the safe functioning of lift installation.		
782	3	For Lift having 1000mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	154300.00
783	4	For Lift having 1100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	159000.00
784	5	For Lift having 1200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	164500.00
785	6	For Lift having 1300mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	169500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
786	7	For Lift having 1400mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Two/four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	174600.00
787	8	For Lift having 1500mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	183300.00
788	9	For Lift having 1700mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	192500.00
789	10	For Lift having 1800mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Four panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows-indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	163700.00
790	11	For Lift having 2100mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with	1Floor	220400.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.		
791	12	For Lift having 2200mm wide x 2000mm high clear entrance in 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring 1.5mm thick SS 304 grade landing door [Six panel], this includes all necessary accessories like LOP's with UP/DN buttons-arrows- indicators, extension of guide rails, shaft wiring with trunking, travelling cables, main hoisting ropes/belts, & OSG rope, landing doors with all accessories etc. complete for the safe functioning of lift installation.	1Floor	227800.00
	B	If there is additional automatic car door, add as below.		
792	1	For Lift car having 700mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	108200.00
793	2	For Lift car having 800mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive, required Aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	111500.00
794	3	For Lift car having 900mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel] complete with required accessories like door operator mechanism with drive,	1Set	115400.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.		
795	4	For Lift car having 1000mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	119200.00
796	5	For Lift car having 1100mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete	1Set	122800.00
797	6	For Lift car having 1200mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	127200.00
798	7	For Lift car having 1300mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two/four panel] complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	131300.00
799	8	For Lift car having 1400mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [Two/four panel]complete with required accessories like door operator mechanism with drive, required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc.	1Set	135200.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		complete.		
800	9	For Lift car having 1500mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	141900.00
801	10	For Lift car having 1700mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	149800.00
802	11	For Lift car having 1800mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [four panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	157200.00
803	12	For Lift car having 2100mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [six panel] complete with required accessories like door operator mechanism with drive,required aluminium sill, infrared curtain & necessary wiring with interlocking arrangement etc. complete.	1Set	171800.00
804	13	For Lift car having 2200mm wide x 2000mm high clear entrance having 1.5mm thick SS 304 grade sheet car door [six panel] complete required aluminium sill, infrared curtain & necessary wiring interlocking arrangement etc. complete.	1Set	178400.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	C	For Full Collective control system, add as below.		
805	1	For Lift travelling above First floor & up to Sixth floor	1No	26900.00
806	2	For Lift travelling above Sixth floor & up to Fifteenth floor	1No	61600.00
807	3	For Lift travelling above Fifteenth floor & up to Twentieth floor	1No	80800.00
808	D	For additional 2MP Camera along with necessary accessories at Home Landing, add as given.	1No	13300.00
	E	For Group control system of number of lifts, add as below.		
809	1	For Duplex Lift control system	1Job	34200.00
810	2	For Triplex Lift control system	1Job	51100.00
811	3	For Quadruplex Lift control system	1Job	68900.00
812	F	For vision panel having Size 100mm wide x 200mm high covered with fire rated laminated glass, having punched Jali as a part of the door panel SS sheet itself.	1No	2700.00
	G	The above rates are for landing & car door height of 2000mm and Lift car ceiling height of 2250mm. If the requirements for landing & car doors height above 2000mm & Lift car height above 2250mm, add overall Rs. per 100mm rise per Lift per landing.		
	a	For Lift car enclosure & car door per 100mm Step rise		
814	1	for Lift car door, having clear entrance of 700/800/900mm wide	1 per Landing	44300.00
815	2	for Lift car door, having clear entrance 1000/1100/1200/1300mm wide	1 per Landing	60700.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
816	3	for Lift car door, having clear entrance 1400/1500/1700mm wide	1 per Landing	106400.00
817	4	for Lift car door, having clear entrance 1800/2100/2200mm wide	1 per Landing	180800.00
	b	For Lift Landings per 100mm Step rise		
818	1	for Lift Landing door having clear entrance of 700/800/900mm wide	1 per Landing	11100.00
819	2	for Lift Landing door, having clear entrance of 1000/1100/1200/1300mm wide	1 per Landing	15100.00
820	3	for Lift Landing door, having clear entrance of 1400/1500/1700mm wide	1 per Landing	23900.00
821	4	for Lift Landing door, having clear entrance of 1800/2100/2200mm wide	1 per Landing	35800.00
	Notes:			
	1	General: - Job includes entire procedure of obtaining all necessary erection permissions & "License to Work the Lift" from Electrical Inspector(Lifts) with submission to the Engineer In Charge.		
	2	Warrantee: - Job covers two years onsite warrantee for all the Lift parts with FCAMC as per the maintenance schedule.		
		Note 1 and 2 above shall be included in item description.		
	3	If the lift shaft is greater than the required size of the lift as mentioned in relevant Indian Standard [with Amendments up to date], the provision of extra steel required for erecting supports of guide rails shall be made by the department as a separate item		
	4	The Electric power supply of 415 volts, 3 phase 4 wire,50Hz shall be made available up to Lift controller, and as per the provisions laid down in relevant The Electricity Safety Regulations 2010[with Amendments up to date],		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Indian Standard, relevant Rules, the separate cables for lighting and power & shall be erected through lift shaft only with 2nos distinct earth connections from lift machine & controller		
	5	The technical specification of Lift duty motor, control panel, brakes, guide rails, and guide shoes, lift car frame, car, counter weight and suspension, lift safety gear and governor, buffer, lift doors, locking device and contacts, lift wire rope of lifts shall be as per actual requirement of the job.		
	6	For nonstandard lift shafts the Lift capacity shall be selected so that all the safety clearances to be maintained as per the provisions laid down in relevant Indian Standard, & relevant Rules and work shall be carried out accordingly		
	7	For building having height of 15 mtr or more, lift shall meet the requirement of fireman lift as per the statutory requirements laid in relevant Indian Standard		
	8	While framing estimates of lifts for handicapped persons/ Hospital/Goods Lifts, the relevant Indian standard shall be referred for dimensions.		
	9	The sizes in mm for Lift car, entrance, available lift Shaft etc. with travel shall be mentioned in the Detailed Estimate		
	10	The above rates are for mostly installed Electric Traction Lifts, for Lift requirements with different purposes/ specifications, the items should be got approved from the competent authority		
	11	The Traffic Analysis [TA] shall be done as per the provisions laid down in relevant Indian standards for finalizing the capacity and number of Lifts in different types of buildings.		
		13.2: LIFT REPAIR/MODERNIZATION		
		LIFT MACHINE		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
822	ELEC-13.2.1	Overhauling of Gearbox by opening the gear box, cleaning the oil path with oil adjusting the Thrust bearing, & bush with packings etc. and refilling with the fresh oil of requisite viscosity and sufficient quantity, complete with re-erection as original with necessary alignment & testing.	1Job	6000.00
823	ELEC-13.2.2	Providing dismantling the existing worn-out/damaged Thrust bearing & bush with allied accessories complete supplying & installing new Thrust bearing & Bush with allied accessories like packings etc. and refilling with the fresh gear oil of requisite viscosity and sufficient quantity, complete suitable up to 10 passenger lift car with re-erection as original with necessary alignment & testing	1Job	15000.00
824	ELEC-13.2.3	Providing dismantling the existing lift duty electric motor from lift gearbox coupling to carryout necessary repairs and re-erection the same as original with necessary alignment & testing complete after repairing	1Job	3000.00
825	ELEC-13.2.4	Providing rewinding of the electromagnetic type brake coil suitable to operate on 110V DC supply by superior quality enamelled copper wire of require size complete with testing	1Job	4500.00
826	ELEC-13.2.5	Providing and fixing new set brake liner of good quality complete with alignment & testing with removal of old worn-out brake liners	1Job	2500.00
827	ELEC-13.2.6	Providing dismantling the existing main driving sheave complete by hanging the lift car and providing and fixing a new main driving sheave made from superior quality cast iron completely finished having diameter up to 600mm suitable up to 4nos rope grooves the size for the same will be specified in the estimate	1Job	14500.00
828	ELEC-13.2.7	Providing dismantling the existing main driving sheave complete by hanging the lift car and providing and fixing a new main driving sheave made from superior quality cast iron completely finished having diameter	1Job	18500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		601 to 800mm suitable up to 4nos rope grooves .		
829	ELEC-13.2.8	Providing dismantling the existing diverter sheave complete by hanging the lift car and providing and fixing a new diverter sheave made from superior quality cast iron completely finished having diameter up to 250mm suitable up to 4nos rope grooves.	1Job	10400.00
830	ELEC-13.2.9	Providing dismantling the existing diverter sheave complete by hanging the lift car and providing and fixing a new diverter sheave made from superior quality cast iron completely finished having diameter 251 to 500mm suitable up to 4nos rope grooves.	1Job	11800.00
831	ELEC-13.2.10	Providing dismantling the existing OSG pulley set (top & bottom) complete and providing and fixing overspeed governor pulley set (top& bottom) made from superior quality cast iron completely finished suitable for Lift car rated speed.	1Job	10200.00
832	ELEC-13.2.11	Providing dismantling the existing OSG rubber roller complete,providing and fixing new nylon roller of superior quality.	1Job	400.00
		LIFT CAR		
833	ELEC-13.2.12	Providing dismantling the existing lift car/counter weight guide shoe liner and providing and fixing new superior quality non-metallic car/counter weight guide shoe Liner complete with re-erection,alignment & adjustment complete with lubrication	1Job	2900.00
834	ELEC-13.2.13	Providing dismantling the existing unserviceable retiring cam (Door)by supplying & erecting new one of superior quality with necessary spare complete with re-erection and testing etc. with copper wound magnetic coil of 110V DC supply.	1Job	4600.00
835	ELEC-13.2.14	Providing dismantling the existing deteriorated lift car flooring/floor tiles by supplying & erecting SS chequered plate of required thickness and of superior quality with necessary material	1Kg	500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
836	ELEC-13.2.15	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 4 to 8 passenger lift car	1Job	152100.00
837	ELEC-13.2.16	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 10 to 13 passenger lift	1Job	183200.00
838	ELEC-13.2.17	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 14 to 16 passenger lift car	1Job	213500.00
839	ELEC-13.2.18	Providing dismantling the existing deteriorated lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material	1Job	247500.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304 grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 18 to 23 Passenger Lift Car		
840	ELEC-13.2.19	Providing dismantling the existing deteriorated Lift car enclosure by supplying & erecting new enclosure made from 1.5mm thick stainless steel sheet SS304 grade of superior quality with necessary material complete with handrail, mirror, required thickness stainless steel chequered plate flooring and min. 2.5mm thick GI sheet car top & stainless steel 304 grade 1.2mm thick false ceiling & required LED light fitting & cabin fan/blower, emergency light with necessary grill along with required accessories suitable for 26 to 36 Passenger Lift Car	1Job	315900.00
841	ELEC-13.2.20	Supplying erecting & testing & commissioning minimum 2000mm high Infra-Red/IR curtain with minimum 80beams, suitable to attach automatic Lift car door complete with electronic driver suitable to work on 230V AC supply with required wiring & accessories complete connected to the lift controller safety circuit. including dismantling of existing accessories as applicable	1No	49700.00
842	ELEC-13.2.21	Supplying & erecting laminated type with minimum 6mm thick mirror conforming to relevant standard in the lift car complete pasting with necessary adhesives if required and fixing with SS frame & accessories complete, this job includes dismantling of existing accessories as applicable	1Sqft	500.00
		LIFT SHAFT		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
843	ELEC-13.2.22	Providing Emergency Stop Switch as per IS [push to stop&pull/rotate clockwise to open] erected on GI box in pit/LMR /car top for maintenance work complete with necessary wires	1No	700.00
844	ELEC-13.2.23	Supplying & erecting over travel final/Terminal limit switch complete with nylon roller for up & down direction alongwithcams etc as required.	1No	2000.00
845	ELEC-13.2.24	Providing and fixing new magnetic reed switch with M.S. Flag for levelling the lift. Providing and fixing necessary magnet for the floor position indicator, providing and fixing electronics card with digital indicator, complete with re-erection including dismantling of existing accessories as applicable	1No	1000.00
846	ELEC-13.2.25	Supplying & erecting lift car door lock with electrical contact[spring loaded NO/NC of 5A/250V rating] complete unit with Bakelite roller attached to bracket on car top with M.S. "T" bracket attached to car gate complete with Testing including dismantling of existing accessories as applicable	1No	1000.00
847	ELEC-13.2.26	Supplying & erecting main suspension wire rope of 13mm dia.having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	200.00
848	ELEC-13.2.27	Supplying & erecting main suspension wire rope of 10mm dia. having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	200.00
849	ELEC-13.2.28	Supplying & erecting main suspension wire rope of 8mm dia.having 8/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	150.00
850	ELEC-13.2.29	Supplying & erecting wire rope of 3/4/6mm dia. having 6/19 construction as per IS complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1Mt	100.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
851	ELEC-13.2.30	Supplying & erecting GI eye bolt suitable for tie up of min. 13mm dia. lift wire ropes with 4nos bull dog clips 8/19 construction as per IS Complete with termination in provided eye bolts including dismantling of existing accessories as applicable	1No	1500.00
852	ELEC-13.2.31	Supplying & erecting GI eye bolt suitable for tie up of 8/10mm dia. lift wire ropes with 4nos bull dog clips 8/19 construction as per IS Complete with termination in provided eye bolts including dismantling of existing accessories as applicable.	1No	1200.00
		CAR & LANDING DOORS:		
853	ELEC-13.2.32	Repairing of M.S. collapsible landing/lift car door for broken rivets, pickets gibes, roller bearings complete with oiling etc. complete with re-erection, and alignment for smooth operation	1Job	900.00
854	ELEC-13.2.33	Supplying & erecting MS collapsible type perforate Car/Landingdoor with 50mm high 8mm thick MS pata at top with roller bearings & nylon gibes complete having adequate strength as per requirements with necessary alignment complete with having clear opening of 700/800mm in width and clear height not less than 2000mm including dismantling of existing door as applicable	1Job	9000.00
855	ELEC-13.2.34	Supplying & erecting MS collapsible type perforate Car/Landingdoor with 50mm high 8mm thick MS pata at top with roller bearings & nylon gibes complete having adequate strength as per requirements with necessary alignment complete with having clear opening of 1000/1200mm in width and clear height not less than 2000mm including dismantling of existing door as applicable	1Job	10700.00
856	ELEC-13.2.35	Supplying & erecting MS Collapsible type imperforate Car/Landing door with 50mm high 8mm thick MS pata at top with roller bearings & Nylon gibes complete having adequate strength as per requirements with necessary alignment complete with grassing	1Job	14000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		Note for Imperforate door the thickness of CRCA sheet not less than 1.5mm having clear opening of 700/800mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable		
857	ELEC-13.2.36	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 700mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable.	1Job	62700.00
858	ELEC-13.2.37	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 800mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	67200.00
859	ELEC-13.2.38	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 900mm in width and clear height not less than 2000mm, including dismantling of	1Job	76200.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		existing door as applicable		
860	ELEC-13.2.39	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 1000mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	86800.00
861	ELEC-13.2.40	Supplying & erecting COPO car/landing door panels with frame made from 1.5mm thick SS 304grade sheet complete with necessary coupler arrangements, nylon bearings at hanger with header assembly with all required accessories with electromechanical lock & nylon coated guide shoes complete having adequate strength as per requirements with necessary alignment complete with greasing having clear opening of 1200mm in width and clear height not less than 2000mm, including dismantling of existing door as applicable	1Job	99000.00
862	ELEC-13.2.41	Providing & fixing aluminium sill with 1 track suitable for fixing of car/ landing door with necessary material like MS brackets, fasteners complete with alignment, including dismantling of existing door as applicable	1Mt	1050.00
863	ELEC-13.2.42	Providing & fixing aluminium Sill with 2 track suitable for fixing of car/ landing door with necessary material like MS brackets, fasteners complete with alignment, including dismantling of existing door as applicable	1Mt	1400.00
864	ELEC-13.2.43	Providing & fixing landing door gate lock of superior quality with necessary adjustable operating lever complies with the relevant IS suitable for swing or collapsible type landing doors	1No	4000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
865	ELEC-13.2.44	Providing & fixing landing/Car gate movable contact electrical switch of superior quality complies with the relevant IS suitable for all type of landing/car doors	1No	150.00
866	ELEC-13.2.45	Providing & fixing LOP with single push button with metallic top & Braille Coded suitable for UP/DN having luminous glow indicator around button with MS box & 3mm thick SS face plate with screws with UP & DN button & digital CPI (suitable for 1 digits) complete with necessary connections, including dismantling of existing door as applicable	1No	4400.00
867	ELEC-13.2.46	Providing & fixing LOP with two push button with metallic top & Braille coded suitable for UP/DN having luminous glow indicator around button with MS box & 3mm thick SS face plate with screws with UP & DN button & digital CPI (suitable for 2 digits) complete with necessary connections, including dismantling of existing door as applicable	1No	5300.00
868	ELEC-13.2.47	Providing & fixing COP with push buttons having luminous glow indicator around button suitable for G+7 floors with push buttons with metallic top & Braille coded suitable for door close, door open, alarm bell, stop, light, fan, intercom etc, FPI, with MS box & 3mm thick SS face Plate with UP & DN arrows & digital FPI (suitable for 2 digits) complete with necessary connections, including dismantling of existing COP as applicable	1No	16300.00
869	ELEC-13.2.48	Providing & fixing push button suitable with micro switch with push button on existing COP/LOP with necessary connections and testing complete including dismantling of existing button accessories as applicable	1No	950.00
870	ELEC-13.2.49	Providing & fixing 40mm high fixing digital indicator module of gives indication of required shade with connections and testing complete including dismantling of existing accessories as applicable	1No	1200.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
871	ELEC-13.2.50	Providing & fixing car door operator motor with assembly of suitable capacity & speed with necessary pulleys & required accessories complete including dismantling of existing accessories as applicable	1No	24000.00
872	ELEC-13.2.51	Providing & fixing hydraulic type landing door closer suitable for swing door with necessary material complete, including dismantling of existing accessories as applicable	1No	1250.00
873	ELEC-13.2.52	Providing & fixing car/landing door guide shoe liner/gibes complete with necessary material like nylon coating complete including dismantling of existing accessories as applicable	1 door	600.00
		CONTROLLER		
874	ELEC-13.2.53	Supplying erecting, testing & commissioning of electronic microprocessor/ PLC based collective-selective lift controller with closed loop logic suitable up to 5.5kW capacity lift duty motor without VVVF Drive and lift car travelling Gr+7 floors having manual operated doors complete erected on wall or floor made from 1.5mm thick CRCA sheet with powder coated enclosure having IP54 protection grade, including dismantling of existing accessories as applicable.	1Job	104800.00
875	ELEC-13.2.54	Supplying erecting, testing & commissioning of electronic microprocessor/PLC based collective-selective lift controller with closed loop logic suitable up to 5.5kW capacity lift duty motor without VVVF Drive & lift car travelling Gr+7 floors having power operated doors complete erected on wall or floor made from 1.5mm thick CRCA sheet with powder coated enclosure having IP54 protection grade. including dismantling of existing accessories as applicable	1Job	124700.00
876	ELEC-13.2.55	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 5.5kW	1Job	60900.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable		
877	ELEC-13.2.56	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 7.5kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	71350.00
878	ELEC-13.2.57	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 10/11kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	91200.00
879	ELEC-13.2.58	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic with necessary card, suitable to drive lift duty electric motor up to 15kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	115300.00
880	ELEC-13.2.59	Supplying erecting, testing & commissioning of VVVF drive having provision for closed loop logic suitable to drive lift door operator motor up to 0.5/0.75kW capacity to be erected in position with necessary wiring in existing control panel including dismantling of existing accessories as applicable	1Job	23900.00
881	ELEC-13.2.60	Supplying erecting, testing & commissioning of rotary encoder mounted on the lift motor shaft for correct & control the positioning & direction of the lift car & providing closed loop feedback to the lift controller complete with necessary shielded data cable up to controller with necessary connectors, this job includes dismantling of existing encoder if any.	1Job	22200.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
882	ELEC-13.2.61	Providing & fixing inspection/maintenance box with cover of suitable size with UP/DN push buttons (with mechanical protection), stop button as per IS, mechanically protected, toggle switch for normal/inspection/maintenance mode, 6A/250V 3Pin socket & 6A piano type switch protected cover with bulb & switch having IP54 grade protection class, this job includes dismantling of existing Inspection/maintenance box if any.	1Job	1500.00
883	ELEC-13.2.62	Providing & fixing junction box having size of 300x300mm & height of 80mm complete with Bakelite terminal strip of 16A/500V rating with cover having IP54 grade protection class includes dismantling of existing Junction box if any. This job includes dismantling of existing inspection/maintenance box if any.	1Job	1100.00
884	ELEC-13.2.63	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for up to 8 passenger capacity lift car including dismantling of existing accessories as applicable	1Job	78600.00
885	ELEC-13.2.64	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 9 to 12 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	89100.00
886	ELEC-13.2.65	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 13 to 16 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	101800.00
887	ELEC-13.2.66	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 17 to 22 passenger capacity lift car. Including	1Job	116000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		dismantling of existing accessories as applicable		
888	ELEC-13.2.67	Supplying erecting, testing & commissioning of ARD panel having audio-visual indication in lift car complete with necessary SMF VRLA batteries suitable for 23 to 29 passenger capacity lift car. Including dismantling of existing accessories as applicable	1Job	133300.00
889	ELEC-13.2.68	Providing complete lift shaft wiring in copper wire/cable from main controller to car top with COP & to all landing push button panel to all landing gate locks to all floor levelling switch to main motor to brake unit & final limit switch indicator system using ISI mark single pvc insulated flexible copper wire having minimum 1.0 sq. mm size from controller to safety devices & 0.75 Sqmm size for indication system complete in PVC/GI trunking with cover for lift with manually/power operated doors travelling up to G+1 floors /2stops & 2landings for floor height up to 4.2mtrs including dismantling of existing accessories as applicable	1Job	20000.00
890	ELEC-13.2.69	Supplying, erecting & terminating flat flexible PVC insulated cable 4core 1.0 sq. mm copper conductor used for railing cables complete erected with PVC/wooden fastening arrangement & lugs, on wall / trunking as per specification including dismantling of existing accessories as applicable	1Mt	150.00
891	ELEC-13.2.70	Supplying, erecting & terminating flat flexible PVC insulated cable 12core 1.0 sq. mm copper conductor used for trailing cables complete erected with pvc/wooden fastening arrangement & lugs, on wall/ trunking as per specification including dismantling of existing accessories as applicable	1Mt	400.00
892	ELEC-13.2.71	Supplying, erecting, testing & commissioning programmable rope mounted Overload Warning Device (OWD) within built digital indicator complete with required wiring & accessories with audio visual	1Job	63800.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		indication in lift car including dismantling of existing accessories as applicable.		
	Note:	1.For item no 13-2-2....for 11 to 20 passenger capacity lift, add 15% to the basic cost		
		2.For item no 13-2-2....for 21 to 29 passenger capacity lift, add 25% to the basic cost		
		3.For item nos. 13-2-6 to 13-2-9 main/diverter sheave for additional groove exceeding 4nos, add 10% in the basic cost per additional groove		
		4.For item no's 13-2-33 to 13-2-35 for Stainless Steel Collapsible doors, basic cost of MS collapsible shall be doubled,Note:- This item shall be operated with prior permission in writing from the concern Superintending Engineer (Electrical).		
		5.For item no's 13-2-33 to 13-2-35, If the requirements for landing/car doors clear height above 2000mm , for Manual operated MS door panels add Rs.1,000/- per 100mm rise per landing.		
		6. For item nos. 13-2-36 to 13-2-40 the rates are for automatic landing/car door with clear height of 2000mm If the Requirements for landing/car doors clear height above 2000mm, refer add on item no. 13-1/G (b)		
		7.For item no 13-2-47- Providing & fixing additional Floor button with allied hardware components on COP, add Rs. 2500/- per additional button.		
		8.For item no 13-2-53 & 13-2-54... Lift Controller for Lift car travelling 9 stops to 15 stops, add Rs. 27300/-.		
		9.For item no 13-2-53 & 13-2-54... Lift Controller for Lift car travelling 16 stops to 21 stops, Rs. 46000/-.		
		10.For item no 13-2-53 & 13-2-54....Lift Controller for PowerCircuit suitable for above 5.5kW & up to 10kW motor, add Rs.7500/-.		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		11.For item no 13-2-53 & 13-2-54... Lift Controller for PowerCircuit suitable for above 10kW & up to 15kW motor, add Rs.10900/-		
		12.For item no 13-2-68 ... For Lift Shaft Wiring in copper wire/cable, above 1st floor for lifts with manually/power operated doors, add Rs. 2500/- per floor.		
		13.The cost of dismantled material of lift parts, shall be calculated on the rate analysis based on weight density calculations of actual dismantled material e.g. mild steel/MS/GI/SS sheets, motors, copper wire, wooden parts etc.		
		14.The lift dismantled retrieved material will be handed over to agency and the calculated amount will be deducted in the bill.		
		13.3: DISMANTLING		
893	ELEC-13.3.1	Dismantling the existing 4 to 7 Passenger lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails,controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material upto division/section store and handing over to the section engineer/store keeper in charge complete.	1Job	30000.00
894	ELEC-13.3.2	Dismantling the existing 8 to 12 Passenger lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails,controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making	1Job	35000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material upto division/section store and handing over to the section engineer/store keeper in charge complete.		
895	ELEC-13.3.3	Dismantling the existing 13 to 17 passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	40000.00
896	ELEC-13.3.4	Dismantling the existing 18 to 22 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	42000.00
897	ELEC-13.3.5	Dismantling the existing 23 to 26 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original	1Job	48000.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete		
898	ELEC-13.3.6	Dismantling the existing 27 to 36 Passenger/Stretcher/Goods lift of all types travelling G+1 floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	52000.00
899	ELEC-13.3.7	Dismantling the 3000 to 5000KG Goods lift of all types travelling G+1Upper Floors (2 Landings/2Stops) having with auto/manual operated doors for lift car & all landings with door frames, guide rails, controller, wiring buffers, Lift Machine, ropes complete with all allied accessories of Lift and making the site clear in all respect complete with refilling the holes with cement mortar & making the site as original this job includes transportation of the dismantled material up to division/section store and handing over to the section engineer/store keeper in charge complete	1Job	54000.00
		Add On		
	A	If there are addition of floors for lift travelling up to six floors, add as given below		
	1	For 4 to 7 passenger lift of all types	1Floor	2500.00
	2	For 8 to 12 passenger lift of all types	1Floor	2700.00
	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Floor	2900.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Floor	3300.00
	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Floor	3400.00
	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Floor	3600.00
	7	For 3000 to 5000Kg goods lift of all types	1Floor	3900.00
	A1	If there are additional floors for Lift travelling above Six floors and up to Fifteen floors Add as given below		
	1	For 4 to 7 passenger lift of all types	1Floor	2700.00
	2	For 8 to 12 passenger lift of all types	1Floor	2900.00
	3	For 13 to 17 passenger/stretchers/goods lift of all types	1Floor	3300.00
	4	For 18 to 23 passenger/stretchers/goods lift of all types	1Floor	3400.00
	5	For 23 to 26 passenger/stretchers/goods lift of all types	1Floor	3600.00
	6	For 27 to 36 passenger/stretchers/goods lift of all types	1Floor	3900.00
	7	For 3000 to 5000Kg goods lift of all types	1Floor	4100.00
	A2	If there are additional floors for Lift travelling above fifteen floors and up to Twenty floors , add as given below		
	1	For 4 to 7 passenger lift of all types	1Floor	2900.00
	2	For 8 to 12 passenger lift of all types	1Floor	3300.00

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Floor	3400.00
	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Floor	3600.00
	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Floor	3900.00
	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Floor	4100.00
	7	For 3000 to 5000Kg goods lift of all types	1Floor	4500.00
	B	If there are additional set of lift car door and landing door, add		
		as given below		
	1	For 4 to 7 passenger lift of all types	1Set	1800.00
	2	For 8 to 12 passenger lift of all types	1Set	2000.00
	3	For 13 to 17 passenger/stretcher/goods lift of all types	1Set	2100.00
	4	For 18 to 23 passenger/stretcher/goods lift of all types	1Set	2400.00
	5	For 23 to 26 passenger/stretcher/goods lift of all types	1Set	2100.00
	6	For 27 to 36 passenger/stretcher/goods lift of all types	1Set	2500.00
	7	For 3000 to 5000Kg goods lift of all types	1Set	3000.00
	Notes:	1) The lift dismantled material cost shall be calculated on the rate analysis based on weight density calculations of actual dismantled material e. mild steel/MS/GI/SS sheets, motors, copper wire, wooden parts etc		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		2) The lift dismantled retrieved material will be handed over to agency and the calculated amount will be deducted in the bill.		
		References		
		The applicable Indian Standards for Lifts are as follows		
		National Building Code 2016 - Part 8 Building Services Section 5 & 5A Installation of Lifts,		
		IS 8216:1976 Guide for Inspection of Wire Ropes		
		IS 14665 (Part 1) :2000 -Electric Traction Lifts Part 1 Guidelines For Outline Dimensions of Passenger, Goods, Service and Hospital Lifts		
		IS 14665 (Part 2/Sec 1 & 2) : 2000 - Electric Traction Lifts Part 2 Code of Practice For Installation, Operation and Maintenance Section 1 Passenger and Goods Lifts Section 2 Service Lifts		
		IS 14665 (Part 3/Sec 1 & 2) : 2000- Electric Traction Part 3 Safety Rules Lifts Section 1 Passenger and Goods Lifts, Section 2 Service Lifts		
		IS 14665 (Part 4/Sec 1 to 9) : 2001 - Electric Traction Lifts Part 4 Components Section 1 Lift Buffers, Section 2 Lift Guide Rails and Guide Shoes, Section 3 Lift Car frame, Car, Counterweight and Suspension, Section 4 Lift Safety Gears and Governors, Section 5 Lift Retiring Cam, Section 6 Lift Doors and Locking Devices and Contacts, Section 7 Lift Machines and Brakes, Section 8 Lift Wire Ropes, Section 9 Controller and Operating Devices for Lifts		
		IS 14665 (Part 5) :1999 -Electric Traction Lifts — Specification Part 5 Inspection Manual		
		IS 15785 : 2007 Installation and Maintenance of Lift without conventional Machine Rooms Code of Practice		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
		IS 15330: 2003 Code of Practice for Installation and Maintenance of Lifts for differently abled Persons		
		Local Authority Rules : The Development Control Regulations of The local Authority		
		Abbreviations		
	Symbol	Meaning		
	ARD	Automatic Rescue Device		
	CCTV	Closed Circuit Television		
	COP	Car Operating Panel		
	COPO	Centre Opening Power Operated		
	CPI	Car Position Indicator		
	CRCA	Cold Rolled Close Annealed		
	FCAMC	Fully Comprehensive Annual Maintenance Contract		
	FCC	Fire Command Centre		
	FHD	Full High Definition		
	FPI	Floor Position Indicator		
	GI	Galvanised Iron		
	HDR	High Definition Recording		
	IBMS	Intelligent Building Management System		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	IP	Internet Protocol		
	IP54	Ingress Protection i. e Protection from limited dust ingress & Protection from water spray from any direction		
	IS	Indian Standards		
	ISI	Indian Standards Institute,		
	Kg	Kilograms		
	kW	Kilowatt rating		
	LED	Light Emitting Diode		
	LFT	Lift Installation		
	LMR	Lift Machine Room		
	LOP	Landing Operating Panel		
	MP	Mega Pixel		
	mps	meters per second		
	MR	Machine Room		
	MRL	Machine Room Less		
	MS	Mild Steel		
	mtrs	meters		
	NBC	National Building Code		
	NVR	Network Video Recorder		

SL. NO	ITEM CODE	DESCRIPTION OF ITEM	Unit	Basic Rate for SOR 2020-21 (Rs.)
1	2	3	4	5
	OSG	Over speed Safety Governor		
	OWD	Overload Warning Device		
	PLC	Programmable Logic Control		
	PMSM	Permanent Magnet Synchronous AC Machine		
	PVC	Polyvinyl Chloride		
	SITC	Supplying, Installing, Testing and Commissioning		
	SMF	Sealed Maintenance Free		
	SS	Stainless Steel		
	TOPO	Telescopic Opening Power Operated		
	UP/DN	Up/Down		
	VAS	Voice Annunciation System		
	VRLA	Valve-Regulated Lead-Acid		
	VS	Variable Speed		
	VVVF	Variable Voltage Variable Frequency		

**GOVERNMENT OF ANDHRA PRADESH
ABSTRACT**

Mines & Minerals – Amendment to the Rule 10 of the Andhra Pradesh Minor Mineral Concession Rules, 1966 - Orders – Issued.

INDUSTRIES AND COMMERCE (M.II) DEPARTMENT

G.O.MS.No. 11

Dated: 11-02-2020

Read the following:

1. G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt:13.08.2009.
2. GSR No.423 (E), dt:10.02.2015 from the Ministry of Mines, Govt. of India, New Delhi.
3. G.O.Ms.No.100, Industries & Commerce (M.II) Dept., dt:31.10.2015.
4. G.O.Ms.No.105, Industries & Commerce (M.II) Dept., dt:13.11.2015.
5. G.O.Ms.No.38, Industries & Commerce (M.II) Dept., dt:17.03.2016.
6. G.O.Ms.No.156, Industries & Commerce (M.II) Dept., dt:03.11.2016.
7. G.O.Ms.No.131, Industries & Commerce (M.II) Dept., dt:04.10.2017.
8. G.O.Ms.No.18, Industries & Commerce (M.II) Dept., dt:29.01.2018.
9. G.O.Ms.No.28, Industries & Commerce (M.II) Dept., dt:17.04.2018.
- 10.G.O.Ms.No.49, Industries & Commerce (M.II) Dept., dt:21.02.2019.
- 11.Proposal from the Director of Mines & Geology, vide e-fileNo:[INC04-17021\(34\)/1/2019-PLANNING SEC-DMG](#) received by the Government on dt. 11.12.2019.

ORDER:

After careful examination of the proposal received from the Director of Mines & Geology, Andhra Pradesh, Ibrahimpatnam in the letter 11th read above, the Government hereby decided to amend the Rule 10 of Andhra Pradesh Minor Mineral Concession Rules, 1966 for enhancing the existing Seigniorage fee and Dead Rent in respect of Minor Minerals.

2. The following notification will be published in the Extra-ordinary issue of the Andhra Pradesh Gazette, dated:11.02.2020.

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 Department, dated. 04.09.1967 and subsequent amended from time to time.

AMENDMENT

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	Units	Rate of Seigniorage Fee (in Rupees)
1	Agate	M.T.	Rs. 145 (Rupees One Hundred and Forty Five)
2	Ball Clay	M.T.	Rs. 75 (Rupees Seventy Five)
3	Barytes		
	i. Grey Colour - A Grade	M.T.	Rs. 480 (Rupees Four Hundred and Eighty)
	ii. Grey Colour - B Grade	M.T.	Rs. 355 (Rupees Three hundred and Fifty Five)
	iii. Grey Colour - C + D + Waste Grade	M.T.	Rs. 220 (Rupees Two Hundred and Twenty)
	iv. White Colour	M.T.	Rs. 1,100 (Rupees One Thousand and One hundred)
	v. Off Colour Other than Grey	M.T.	Rs. 500 (Rupees Five Hundred)
4	Building Stone	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
5	Calcareous Sand	M.T.	Rs. 90 (Rupees Ninety)
6	Calcite	M.T.	Rs. 90 (Rupees Ninety)
7	Chalcedony Pebbles	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
8	Chalk	M.T.	Rs. 95 (Rupees Ninety Five)
9	China Clay	M.T.	Rs. 60 (Rupees Sixty)
10	Clay (Others)	M.T.	Rs. 60 (Rupees Sixty)
11	Corundum	M.T.	Rs. 120 (Rupees One Hundred and Twenty)
12	Diaspore	M.T.	Rs. 415 (Rupees Four hundred and fifteen)
13	Dimensional Stone used for Kerbs& Cubes	M.T.	Rs.135 (Rupees One hundred and Thirty Five)
14	Dolomite	M.T.	Rs. 100 (Rupees One Hundred)

15	Dunite or Pyroxinite	M.T.	Rs. 60 (Rupees Sixty)
16	Feldspar	M.T.	Rs. 100 (Rupees One hundred)
17	Felsite	M.T.	Rs. 130 (Rupees One hundred and thirty)
18	Fireclay	M.T.	Rs. 60 (Rupees Sixty)
19	Fullers Earth/ Bentonite	M.T.	Rs. 180 (Rupees One Hundred and Eighty)
20	Fuschite Quartzite	M.T.	Rs. 90 (Rupees Ninety)
21	Granite useful for cutting and polishing purpose		

	Item	Unit	Super Gang Sawequal and above 300cmx180cm size	Mini Gang Sawequal and above 270cmx150cm size	270cm X 150 cm & Below size	Below 75cm size
i.	Black Galaxy Granite Variety	M3/ MT	Rs.4600/ Rs.1415 (Rs. Four thousand six hundred/Rs. One thousand four hundred fifteen)	Rs.3680/ Rs.1130 (Rs. Three thousand six hundred eighty/Rs. One thousand one hundred thirty)	Rs.3450 / Rs.1060 (Rs. Three thousand four hundred fifty/ Rs. One thousand sixty)	Rs.1550/ Rs.480 (Rs. One thousand five hundred fifty/ Rs. Four Hundred eighty)
ii.	Black Granite other than Galaxy variety	M3/ M.T.	Rs.3450/ Rs.1150 (Rs. Three thousand four fifty/Rs. One thousand one hundred fifty)	Rs.2875/ Rs.960 (Rs. Two thousand eight hundred seventy five/Rs. nine hundred sixty)	Rs.2700/ Rs.900 (Rs. Two thousand Seven hundred / Rs. Nine hundred)	Rs.1150/ Rs.385 (Rs. One thousand one hundred fifty/ Rs. Three Hundred eighty five)
iii.	Colour Granite Srikakulam Blue, Moon white, River white of Visakhapatnam Dist., Leptinites of Coastal Dists., Black pearl of Prakasam and	M3/ M.T.	Rs.3,450/ Rs.1,255 (Rs. Three thousand four fifty/Rs. One thousand two hundred fifty five)	Rs.2,875/ Rs.1,045 (Rs. Two thousand eight hundred seventy five/Rs. One thousand forty five)	Rs.2,700/ Rs.980 (Rs. Two thousand Seven hundred / Rs. Nine hundred and eighty)	Rs.1150/ Rs.420 (Rs. One thousand one hundred fifty/ Rs. Four Hundred twenty)

	Guntur Dists.					
iv.	Colour Granite of other varieties	M3/ M.T.	Rs.2700/ Rs.985 (Rs. Two thousand seven hundred/Rs. Nine hundred eighty five)	Rs.2470/ Rs.900 (Rs. Two thousand four hundred seventy/Rs.Nine hundred)	Rs.2300 / Rs.835 (Rs. Two thousand three hundred / Rs. Eight hundred and thirty five)	Rs.1150/ Rs.420 (Rs. One thousand one hundred fifty/ Rs. Four Hundred twenty)
v.	Kuppam Grey Granite available in Santhipuram& Ramakuppam mandals of Chittoor District	M3/ M.T.	Rs.1925/ Rs.700 (Rs. One thousand nine hundred twenty five/Rs. Seven hundred)	Rs.1650/ Rs.600 (Rs. One thousand six hundred fifty/Rs. Six hundred)	Rs.1375 / Rs.500 (Rs. One thousand three hundred and seventy five/ Rs. Five hundred)	Rs.1100/ Rs.400 (Rs. One thousand one hundred / Rs. Four Hundred)
vi.	Chittoor Colour Granite (Other than Silver-waves, Madanapalli white and Iscon white)	M3/ M.T.	Rs.1925/ Rs.700 (Rs. One thousand nine hundred twenty five/Rs. Seven hundred)	Rs.1650/ Rs.600 (Rs. One thousand six hundred fifty/Rs. Six hundred)	Rs.1375 / Rs.500 (Rs. One thousand three hundred seventy five/ Rs. Five hundred)	Rs.1100/ Rs.400 (Rs. One thousand one hundred / Rs. Four Hundred)
22	Gypsum			M.T.		Rs. 150 (Rupees One Hundred and Fifty)
23	Jasper			M.T.		Rs. 145 (Rupees One Hundred and Forty Five)
24	Kaolin			M.T.		Rs. 60 (Rupees Sixty)
25	Laterite					
	i. Dispatched for use in Alumina &Aluminium metal extraction			M.T.		Rs. 200 (Rupees Two Hundred)
	ii. For use other than Alumina and Aluminium metal extraction and export			M.T.		Rs. 100 (Rupees One Hundred)
26	Lime Kankar/ Limestone			M.T.		Rs. 90 (Rupees Ninety)
27	Lime Shell			M.T.		Rs. 120 (Rupees One Hundred and Twenty)
28	Limestone Slabs:					
	i. Color			Sq.Mt/ M.T.		Rs. 10 (Rupees Ten) per Sq.Mtor Rs.120

	ii. White	Sq.Mt/ M.T.	(Rupees One Hundred and Twenty) per MT whichever is higher
	iii. Black	Sq.Mt/ M.T.	Rs. 6 (Rupees Six) per Sq.Mtor Rs.110 (Rupees One Hundred and Ten) per MT whichever is higher
29	Manufactured Sand	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
30	Marble	M3/M.T.	Rs. 300/120 (Rupees Three Hundred / One Hundred and twenty)
31	Mica		-
	i. Crude	M.T.	Rs. 2,000 (Rupees Two Thousand)
	ii. Scrap	M.T.	Rs. 750 (Rupees Seven Hundred and Fifty)
32	Morum/ Gravel & Ordinary Earth	M3/M.T.	Rs. 45/30 (Rupees Forty five / Thirty)
33	Mosaic Chips	M.T.	Rs. 90 (Rupees Ninety)
34	Ochre	M.T.	Rs. 60 (Rupees Sixty)
35	Ordinary Clay, Silt and Brick Earth used in the Manufacture of Bricks including Mangalore Tiles		Rs. 8,000 (Rupees Eight Thousand) Per Kiln Per Annum for Bricks and Tiles
36	Ordinary Sand	M3/M.T.	Rs. 100/ Rs. 66 (Rupees One Hundred/Rs. Sixty Six)
37	Pyrophillite	M.T.	Rs. 200 (Rupees Two Hundred)
38	Quartz	M.T.	Rs. 90 (Rupees Ninety)
39	Quartzite	M.T.	Rs. 90 (Rupees Ninety)
40	Rehmati	M3/M.T.	Rs. 35/ Rs. 25 (Rupees Thirty five/Twenty five)
41	Road Metal & Ballast	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
42	Rough Stone/ Boulders	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
43	Sand (Others)	M.T.	Rs. 100 (Rupees One Hundred)

44	Shale	M.T.	Rs. 180 (Rupees One Hundred and Eighty)
45	Shingle	M3/M.T.	Rs. 90/60 (Rupees Ninety / Sixty)
46	Silica Sand	M.T.	Rs. 100 (Rupees One Hundred)
47	Slate	M.T.	Rs. 175 (Rupees One hundred and Seventy five)
48	Steatite or Talc or Soapstone		
	i. Filler Grade	M.T.	Rs. 100 (Rupees One Hundred)
	ii. Other Grade	M.T.	Rs. 550 (Rupees Five hundred and Fifty)

SCHEDULE-II

RATES OF DEAD RENT

S.No	Name of the Minor Mineral	Rate of Dead Rent per hectare per annum (In Rupees)
1	Black Galaxy Granite and Black Granite	Rs. 1,30,000/- (Rs. One Lakh Thirty Thousand)
2	All Colour Granite varieties	Rs. 1,30,000/- (Rs. One Lakh Thirty Thousand)
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, Manufactured sand, concrete & other construction purpose, Shale, Slate & Phyllites, Mosaic Chips, Fullers Earth/Bentonite & Dimensional Stone used for Cubes and Kerbs	Rs. 65,000/- (Rs. Sixty Five thousand)
4	Gravel, Morrums, Ordinary Earth, Shingle, Limestone Slabs used for flooring purpose Limekankar, Chalcedony Pebbles used in the building purpose Limeshell for burning used for building purpose and Rehmati.	Rs. 52,000/- (Rs. Fifty two thousand)
5	Barytes and Laterite	Rs. 26,000/-

		(Rs. Twenty Six Thousand)
6	Agate, Corundum, Diaspore and Fluorite	Rs. 20,000/- (Rs. Twenty Thousand)
7	Mica	Rs. 15,000/- (Rs. Fifteen Thousand)
8	All minor minerals which are not covered under Serial number 1 to 7 above.	Rs. 20,000/- (Rs. Twenty Thousand)

3. This order shall come in to force with immediate effect.

4. This order issues with the concurrence of Finance Department vide their U.O. No. FMU0ASD(IC)/111/2019-FMU-IIEIC, dt.09.01.2020 (Computer No.1063684).

[BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH]

K. RAMGOPAL
PRINCIPAL SECRETARY TO GOVERNMENT (MINES)

To

The Commissioner of Printing, Stationary & Stores Purchase (Ptg. Wing),
Vijayawada. (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 Govt. Ind. & Com. (M.II) Department).

The Director of Mines & Geology, Andhra Pradesh, Ibrahimpatnam.

The Chief Executive Officer, SERP, Vijayawada.

All the Joint Director /Deputy Director / Asst. Director of Mines & Geology through the
Director of Mines & Geology, Ibrahimpatnam.

Copy to:

The Secretary to Govt, Ministry of Mines, Govt. of India, Shastry Bhawan, New Delhi.

The Law Department. / The Finance Department.

The P.S to Minister for Mines & Geology. / The PS to Prl. Secretary to Govt., (Mines).

SF/SC (e-file No. [INC04-17021\(34\)/1/2019-PLANNING SEC-DMG](#), Comp. No.1052464)