



GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT

SCHEDULE OF RATES
(ELECTRICAL)

2012

Volume - II

(With effect from 1-10-2012)

PREFACE

As promised on the floor of the Legislative Assembly by the Hon'ble Minister for works, Government have decided to consider the rate revision in 2012 also. Accordingly, proposal for revision of Schedule of Rates has been prepared by the Chief Engineer, PWD Administration and submitted to the Government for sanction.

Data from Economic and Statistics Department for labour and building materials and the current market trend in each locality obtained from Executive Engineers were analyzed and discussed in the Chief Engineers Committee meeting before finalizing the revision proposal.

Some of the new items now being used in the new construction works in the department are also included in the revision proposal.

Chief Engineer
PWD Administration



GOVERNMENT OF KERALA

Abstract

Public Works Department – Revision of PWD Schedule of Rate 2012 - Orders issued.

PUBLIC WORKS (H) DEPARTMENT

G.O.(Ms) No.68/2012/PWD

Dated, Thiruvananthapuram, 28.09.2012.

Read:- 1. G.O.(Rt)No.1151/2011/PWD, dated 03.09.2011

2. Letter No.CE/ADMN./PLA -18914/2011, dated 14.05.2012 from
Chief Engineer, Administration, PWD, Thiruvananthapuram.

ORDER

As per Government Order read above. Schedule of Rates (SoR) were revised with effect from 03.09.2011, as "Revised SOR-2010" by allowing 15% increase in civil items and 10% increase in electrical items.

2. The Chief Engineer, Administration in his letter read above furnished proposals for revision of the Schedule of Rates of civil and electrical items. Government have examined the matter in detail and are pleased to accept the proposals for revision of rates of civil and electrical items as appended.

3. The revision of Schedule of Rates will be effective from 01.10.2012 and will be known as "SoR 2012". The new Schedule of Rates will not apply in respect of contracts already executed or where a tender based on earlier SoR is proposed to be accepted.

By Order of the Governor,

TOM JOSE

Principal Secretary to Government

To

The Accountant General (A&E)/Audit, Kerala, Thiruvananthapuram.

The Chief Engineer (Roads, Bridges & Admn./National Highway), PWD,
Thiruvananthapuram

The Chief Engineer (Buildings & Local Works/Operations), PWD,
Thiruvananthapuram

The Chief Engineer, Kerala Road Fund Board, Thiruvananthapuram

The Chief Engineer, LSG Engineering Wing.

The Chief Engineer, KSTP

The Chief Engineer, KSEB, Thiruvananthapuram

The Director, Information & Public Relations Department

The Water Resources Department

The Fisheries & Ports Department

The Local Self Govt. Department

The Co-operation Department

The Finance Department (vide U.O.No.46672/Ind&PW B2/12/Fin. Dated 18.09.2012)

All Sections in PWD

SF/OC/Website.

Forwarded/By Order

Section Officer

GENERAL INSTRUCTIONS

1. The Schedule of Rates is for estimating purpose only and shall be followed both for original and maintenance works. This supercedes all previous schedules and subsequent corrections to them.
2. The rates for works are to be calculated based on this schedule and shall be varied only with the specific sanction of the Chief Engineer.
3. These rates shall be the basic rates in Kerala Public Works Department until further revision. As a rule the schedule of rates shall be reviewed in March every year by the Superintending Engineers in- charge of Circles and any modification that may be found necessary shall be got approved by the Chief Engineer in time and brought into force from the next financial year. These rates are to be adopted for the CPWD Specifications and MORTH Specifications.
4. This Schedule of Rates consists of two volumes:

Volume I Section I -- Rates for Labour
 Section II -- Materials
 Section III -- Water Supply and Sanitary items
 Section IV -- Conveyance Statement

Volume II Rates for Electrical Items.

For materials like cement, iron, tiles, wire cut bricks, sand lime bricks etc. exfactory or the manufacturers nearest depot rates have been provided.

6. The rates given in the Schedule, are exclusive of conveyance charges of materials to site of work and also do not include the contractor's profit of 10 percent. For the preparation of estimates, rates shall be worked out based on detailed data providing for the cost of materials, conveyance charges and labour as per the schedule. When the work is proposed to be taken up through a contract agency, 10 percent contractor's profit shall also be added to the rates except on the value of materials supplied departmentally and on hire charges of T and P
7. Regarding conveyance charges for materials, a certificate as noted below, from an officer not below the rank of an Assistant Executive Engineer, should be attached with all estimates.

"The distances noted in the data for conveyance from quarry or source have been personally verified by me and are found correct. These are the minimum leads required."

8. (a) When power rollers(Diesel Rollers), are hired out to contractors hire charges for the rollers(which include cost of lubricating oils, grease, small stores and establishment charge but exclude cost of fuel), shall be recovered at the rate of **Rs.2392** per day of eight hours or part thereof, for the full period the roller is hired out to the contractor, including non working days, except for authenticated period of break down of the roller for the full working hours of a day (that is 8 hours from 8 a.m. to 5 p.m. including one hour's interval for lunch) and for Sundays and other public holidays, if there is no work on these days.

The daily rate of hire fixed by the Chief Engineer shall be for a day of 8 hours or part thereof, between 8 a.m. and 5 p.m. with one hour's interval for lunch.

(b) If there is work on Sundays and other Public Holidays, the hire charges for the rollers shall be recovered at the rate of 1.20 times the rate for normal working days.

(c) When power rollers are worked on any day, in excess of eight hours (that is outside the normal working hours between 8 a.m. to 5 p.m.) hire at the rate of 1.20times the hourly rate applicable for that day(based on the rate of 8 hours), shall be levied for every extra hour or part thereof.

(d) The average out- turn expected from a power roller for a day of 8 hours is as fixed by the Chief Engineer (R and B) for various items of road work. A variation of plus or minus 12 1/2 per cent may be allowed to this average. If the daily out-turn from the roller falls out side the permissible variations the contractor shall be charged at 11/2 times the rate of normal hire for the day, specified for the roller concerned. However, this clause shall not be applicable in cases where variation is due to authenticated periods of break down of the roller or inclement weather.

(e) In addition to the hire charges, necessary water, diesel oil (Fuel oil) or power line, as the case may be, required for the efficient working of the roller, shall be supplied by the contractor.

9. The Schedule of Rates 2012 shall come into force from 01-10-2012.

Office of the Chief Engineer
PWD, Design & Administration
Thiruvananthapuram-695033

Sd/-
K.SUNDARAN
Chief Engineer

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SCHEDULE OF RATES (ELECTRICAL) – 2012

A. RATES FOR LABOUR

Sl. No .	Description	Unit	Rate
1	Black Smith	Each Per day	500
2	Cable jointer	„	443
3	Cable Jointer mate	„	377
4	Carpenter	„	500
5	Electrician	„	443
6	Fitter	„	456
7	Hardware Technician (Computer)	„	505
8	Lineman	„	396
9	Lineman Assistant	„	377
10	Mason – Brick or laterite		471
11	Mason – Rubble mason		471
12	Man Mazdoor	„	377
13	Mazdoor - Heavy Load Mazdoor for handling iron materials	„	396
14	Mazdoor – Woman	„	377
15	Mechanic Grade I	„	505
16	Mechanic Grade II	„	471
17	Mechanic- II pump/ Generator	„	471
18	Motor winder	„	505
19	Operator- Lift Irrigation	„	396
20	Painter	„	396
21	Plumber/Pipe fitter	„	471
22	Skilled Assistant (Diploma Holder)	„	673
23	Skilled Assistant (Engineering Degree Holder)	„	852
24	Skilled Assistant (ITI holder)	„	505
25	Technician- Electronic machinery	„	505
26	Turner- I	„	456
27	Turner- II		396
28	Welder -Gas welding/Arc welding	„	471
29	Wireman	„	443
30	Wireman Assistant	„	396
31	Wireman Helper	„	377

B. RATES FOR MATERIALS

PART I

WIRES AND CABLES

1. COPPER CONDUCTOR WIRES

- 1.A. PVC insulated flexible single core cables manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 Insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.**

Sl. No.	Nominal area of Conductor in sq. mm	Unit	Rate in Rs.	
			FR	HFFR
1	1.0	100 m	883.00	1077.00
2	1.5	„	1304.00	1604.00
3	2.5	„	2106.00	2600.00
4	4.0	„	3110.00	4050.00
5	6	„	4650.00	5395.00
6	10	„	7979.00	9974.00
7	16	„	12952.00	16190.00

- 1.B. FR Multi-core PVC Insulated and PVC sheathed Copper conductor round flexible wire** manufactured with bright annealed bare copper conductor as per IS 8130/1984 Insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990 for working voltage up to and including 1100 V.

Sl. No.	Description		Unit	Rates in Rs.		
	Nominal area in sq. mm	No. and size conductor		2 core	3 core	4 core
1	2	3	4	5	6	7
1	0.5	16/0.20 mm	100 m	1619.00	2141.00	2706.00
2	0.75	24/0.20 mm	„	2175.00	2880.00	3683.00
3	1	32/0.20 mm	„	2482.00	3395.00	4374.00
4	1.5	48/0.20 mm	„	3478.00	4704.00	6207.00
5	2.5	80/0.20 mm	„	5544.00	7601.00	9871.00
6	4	56/.3 mm	„	8273.00	11306.00	14755.00
7	6	84/.3 mm	„	12367.00	17372.00	22878.00

- 1.C. PVC Insulated and sheathed 3 core flat cable for submersible pump motor** with annealed plain electrolytic copper conductor as per IS 8130/1984 insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990

Sl. No.	Nominal area of conductor sq. mm	No. and nominal diameter of wire in mm	Unit	Rate in Rs.
1	1.5	22/0.30	100 m	4969.00
2	2.5	36/0.30	„	7633.00
3	4.0	56/0.30	„	11528.00
4	6.0	85/0.30	„	16723.00
5	10.0	140/0.30	„	28076.00
6	16.0	225/.30	„	44745.00
7	25.0	354/.30	„	73472.00

1.D. UTP Cables

Sl. No.	Description	Unit	Rate in Rs
1	Cat 5E UTP cable	100 m	1956.00
2	Cat 6 UTP cable	„	2605.00

1.E. TV Co-Axial Cables

Sl. No.	Description	Unit	Rate in Rs
1	RG 11 cable	100 m	4351.00
2	RG 6 cable	„	1965.00

- 1.F. FR PVC sheathed copper conductor polyethylene polyester taped Telephone pair cables for indoor application** (un-armoured) conforming to ITD specifications - 0.50mm dia.

Sl. No.	No. of pairs	Unit	Rate in Rs
1	2	3	4
1	1	100 m	562.00
2	2	„	1005.00
3	3	„	1383.00
4	4	„	1818.00
5	5	„	2236.00
6	10	„	4387.00
7	20	„	8519.00

- 1.G. Hook up wires** (Rate for 100 m) - Rs. 116.00

2. POWER CABLES

2A. PVC / XLPE insulated armoured cables with aluminium conductors for working voltages up to and including 1100V conforming to IS 1554 part I 1988 for PVC and IS 7098 Part I for XLPE

Sl. No.	Area of Cross section in sq. mm.	Unit	Rate in Rs			
			2 core	3 core	3.5 core	4 core
1	4.0	1000 m	68055.00	74465.00		90718.00
2	6.0	„	83531.00	95834.00		106841.00
3	10.0	„	900006.00	104899.00		110079.00
4	16.0	„	97129.00	116554.00		137923.00
5	25.0	„	107528.00	143556.00	169612.00	178891.00
6	35.0	„	131506.00	182531.00	199677.00	222198.00
7	50.0	„	168434.00	228848.00	263976.00	290861.00
8	70.0	„	219355.00	299104.00	345661.00	383147.00
9	95.0	„	266974.00	368441.00	426051.00	477679.00
10	120.0	„	319553.00	447310.00	537445.00	581736.00
11	150.0	„	385665.00	542496.00	622530.00	702693.00
12	185.0	„		660539.00	771525.00	865028.00
13	240.0	„		854279.00	987751.00	1116526.00
14	300.0	„		1046723.00	1208604.00	1372881.00
15	400.0	„		1314798.00	1520451.00	1733616.00

2B. 11 KV XLPE CABLE

11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable conforming to IS: 7098 part II 1985 with latest amendments.

Sl. No.	Area of Cross section in sq. mm.	Unit	Rate in Rs
			3 core
1	2	3	4
1	35.0	100 m	64122.00
2	50.0	„	72537.00
3	70.0	„	86759.00
4	95.0	„	102831.00
5	120.0	„	117221.00
6	150.0	„	132957.00
7	185.0	„	154163.00
8	240.0	„	189506.00
9	300.0	„	218370.00
10	400.0	„	263894.00

PART II

CABLE TERMINATIONS & JOINTS

1. Nickel plated Double compression brass Cable Glands suitable for armoured P.V.C cables

Sl. No.	Description			Unit	Rate in Rs
	No. of Cores	Cable size in sq. mm	Size of Gland in mm		
1	2	3	4	5	6
1	2/ 3/ 3.5/ 4	1.50	10 (3/8")	Each	84.00
2	„	2.50	12 (1/2")	„	84.00
3	„	2.50	16 (5/8")	„	84.00
4	„	4.00	19 (3/4")	„	120.00
5	„	6.00	22 (7/8")	„	146.00
6	„	10.00	25 (1")	„	162.00
7	„	16.00	28 (1 1/8")	„	202.00
8	„	25.00	32 (1 1/4")	„	332.00
9	„	35.00	35 (1 3/8")	„	328.00
10	„	50.00	38 (1 1/2")	„	476.00
11	„	70.00	40 (1 5/8")	„	500.00
12	„	95 / 120	45 (1 3/4")	„	578.00
13	„	150.00	50 (2")	„	690.00
14	„	185.00	57 (2 1/4")	„	820.00
15	„	240.00	63 (2 1/2")	„	998.00
16	„	300.00	70 (2 3/4")	„	383.00
17	„	3 x 400	75 (3")	„	1560.00
18	„	3 1/2 x 400	82 (3 1/4")	„	2030.00
19	„	500.00	88 (3 1/2")	„	2420.00
20	„	630.00	95 (3 3/4")	„	740.00
21	„	630.00	100 (4")	„	3530.00

2. Copper earthing clips for single compression glands

Sl No.	size of cable in sq. mm	Size of earth clip	Unit	Rate
1	4 to 16	60 mm long x 12 mm wide x 1 mm thick	Each	7.00
2	25 to 95	65 mm long x 20 mm wide x 1.20 mm thick	„	15.00

3. CABLE SOCKETS AND TERMINALS FOR SOLDER LESS CRIMPING

3A. Aluminium sockets and terminals

Sl No.	Size of cable in sq. mm.	Unit	Rate in Rs.		
			Tubular	Reducer (Banana)	In-line ferrules
1	2	3	4	5	6
1	2.5	Each	2.30	4.00	2.00
2	4	„	2.30	4.00	2.00
3	6	„	2.50	4.00	2.00
4	10	„	2.60	5.30	2.00
5	16	„	3.40	7.60	3.00
6	25	„	4.00	10.40	3.80
7	35	„	5.30	13.20	4.80
8	50	„	7.70	17.60	7.30
9	70	„	12.00	23.00	11.50
10	95	„	13.70	37.40	12.00
11	120	„	19.20	58.80	17.60
12	150	„	23.60	69.30	19.30
13	185	Each	31.00	93.50	27.00
14	240	„	48.00	175.00	43.00
15	300	„	68.00	222.00	62.00
16	400	„	92.00		86.00
17	500	„	150.00		
18	630	„	178.00		

3B. Copper sockets

Sl No.	Size of cable in sq. mm.	Unit	Rate in Rs.		
			Tubular	Reducer (Banana)	In-line ferrules
1	1.5	Each	--	--	3.20
2	2.5	„	3.40	10.40	4.20
3	4	„	6.90	10.40	5.20
4	6	„	7.50	10.40	6.00
5	10	„	8.70	14.00	7.50
6	16	„	11.50	19.00	9.80
7	25	„	18.80	31.00	17.00
8	35	„	23.00	41.80	21.00
9	50	„	31.40	46.00	27.00
10	70	„	51.70	69.00	46.00
11	95	„	63.00	103.00	58.00
12	120	„	69.00	196.00	63.00
13	150	„	92.00	222.00	81.00
14	185	„	138.00	240.00	126.00
15	240	„	208.00	514.00	191.00
16	300	„	260.00		249.00
17	400	„	381.00		346.00

3C. Copper terminals

Sl No.	Size of cable in sq. mm.	Unit	Ring terminal		Fork terminal	
			Bare	Insulated	Bare	Insulated
			Rate Rs.	Rate Rs.	Rate Rs.	Rate Rs.
1	1.5	Each	1.70	2.00	2.00	2.30
2	2.5	„	3.00	3.00	2.40	2.60
3	4 / 6	„	5.00	5.00	5.00	5.00
4	10	„	5.20	6.00	7.00	7.00
5	16	„	11.00	10.00	10.00	11.00
6	25	„	15.00			

4. Straight through joint kit for 1.1 KV PVC/XLPE Cable

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.
1	1 x Up to 70, 2 x Up to 10, 3 x Up to 10, 4 x Up to 6	Each	580.00
2	1 x 95/120, 2 x 16/25/35, 3 x 16/25, 3.5/4 x 10/16	„	753.00
3	1 x 150/185, 2 x 50/70, 3 x 35/50, 3.5/4 x 25/35	„	870.00
4	1 x 225/240, 2 x 95, 3 x 70, 3.5/4 x 50	„	1051.00
5	1 x 300, 2 x 120/150, 3 x 95, 3.5/4 x 70	„	1153.00
6	1 x 400/500, 3 x 120/150, 3.5/4 x 95	„	1205.00
7	1 x 630, 3 x 185, 3.5 x 120/150, 4 x 120/150	„	1809.00
8	1 x 800, 3 x 225, 3.5/4 x 185	„	1901.00
9	1 x 1000, 3 x 240, 3.5/4 x 225	„	2012.00
10	3 x 300, 3.5/4 x 240	„	2458.00
11	3 x 400, 3.5/4 x 300	„	2900.00
12	3.5/4 x 400	„	3545.00
13	3.5/4 x 500	„	4771.00
14	3.5/4 x 630	„	5714.00

Note:- Standard kit contains required quantity of cable jointing compound, hardener, plastic mould, adhesive cum solvent, sponge sheet, mould holding clips, earth continuity connection, spacers and PVC (NA) tape.

5. Indoor and outdoor end terminations for 1.1 KV PVC/XLPE cable.

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.
1	2 x 10/16, 3 x 10	Each	360.00
2	2 x 25/35/50, 3 x 16/25/35, 3.5 x 10/16/25, 4 x 10/16/25	„	377.00
3	2 x 70/95, 3 x 50/70, 3.5/4 x 35/50	„	431.00
4	2 x 120/150, 2 x 185/225, 3 x 95/120/150, 3.5 x 70/95/120, 4 x 70/95/120	„	504.00
5	2 x 240/300, 3 x 185/225, 3.5/4 x 150/185	„	737.00
6	2 x 400, 3 x 240/300, 3.5/4 x 225/240/300	„	851.00
7	3 x 400, 3.5/4 x 400/500	„	1110.00
8	3 x 630	„	1677.00

Note:- Standard kit contains required quantity of cable jointing compound, hardener, plastic mould, adhesive cum solvent, epoxy putty, earth continuity connection, spacers and PVC (NA) tape.

6. Push-on end terminations kits (earthed) for 11 KV XLPE cable.

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.	
			Indoor	Out door
1	3 x 25/35	Each	4978.00	6441.00
2	3 x 50/70	„	5331.00	6773.00
3	3 x 95	„	6006.00	7211.00
4	3 x 120/150	„	6557.00	7712.00
5	3 x 185/240	„	7093.00	8227.00
6	3 x 300/400	„	8022.00	9028.00

Note:

a) Indoor end termination

Standard kit contains stress cum semi conducting pad, sliding core, self bonding insulating tape, boot (with 3 core kit), earth continuity connection, (with 3 core kit), earthing lug (with 1 core kit), adhesive-cum-solvent, PVC (NA) tape, Silicon grease, Aluminium crimping lug, Aluminium oxide cloth, nylon string, copper binding wire, hose clamp and bi-metallic washer

b) Out door end termination

Standard kit contains stress cum semi conducting pad, cap, rain shield, self bonding Insulating tape, sliding case, leakage current collector, protective corrugated hose pipe, boot, earth continuity connection (with 3 cores only) earthing lug (with 1core kit over lay) adhesive cum solvent PVC (NA) tape, Silicon grease, Aluminium crimping lug, Aluminium oxide cloth, nylon string, copper binding wire, hose clamp and bi-metallic washer

7. Tapex straight through joint kit for 11 KV (earthed) screened XLPE cable

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.
1	3 x 16/25	Each	7773.00
2	3 x 35	„	7977.00
3	3 x 50	„	8465.00
4	3 x 70	„	8764.00
5	3 x 95	„	9022.00
6	3 x 120	„	10172.00
7	3 x 150	„	10448.00
8	3 x 185	„	10903.00
9	3 x 225/240	„	12305.00
10	3 x 300	„	14282.00
11	3 x 400	„	15103.00

8. Kastex indoor and out door end termination kit for 11 KV (earthed) XLPE cable

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.	
			Indoor	Outdoor
1	3 x 16/25/35	Each	2741.00	3522.00
2	3 x 50/70/95	„	2917.00	4018.00
3	3 x 120/150/185	„	3109.00	4746.00
4	3 x 225/240/300	„	3340.00	5795.00
5	3 x 400	„	4713.00	6007.00

PART III
M.S BOXES

Sl. No.	Description	Unit	Rate Rs.	
			Without cover	3mm Hylam sheet
1	75X75 mm	Each	52.00	7.00
2	100x100 mm	„	62.00	11.00
3	100X150 mm	„	71.00	13.00
4	125x150 mm	„	82.00	21.00
5	150X200 mm	„	128.00	33.00
6	200X250 mm	„	184.00	55.00

PART IV
CONDUITS AND ACCESSORIES

1. Fan Boxes and Ball & sockets.

Sl. No.	Description	Unit	Rate Rs.
1	Fan box with fan clamp (MS)	Each	48.00
2	Ball & socket 20 mm	„	35.00

2. Rigid PVC Conduits as per IS 9537 Part III.

Sl. No.	Description	Unit	Rate Rs.	
			Light	Medium
1	Rigid P.V.C Conduit 20 mm	M	15.00	18.00
2	„ 25 mm	„	21.00	24.00
3	„ 32 mm	„	33.00	40.00
4	„ 40 mm	„	61.00	68.00

3. Rigid PVC Junction boxes with lid & screw (IS 3419).

Sl. No.	Description	Unit	Rate Rs.			
			Normal junction		Deep junction	
			20 mm	25 mm	20 mm	25 mm
1	1 way terminal	Each	13.0	17.00	22.00	25.00
2	2 way through	„	14.00	18.00	23.00	27.00
3	2 way Angle	„	14.00	18.00	23.00	27.00
4	3 way Tee	„	16.00	20.00	24.00	29.00
5	4 way intersection	„	17.00	22.00	26.00	31.00

4. Common accessories for PVC conduits

Sl. No.	Description	Unit	Rate Rs.				
			20 mm	25 mm	32 mm	40mm	50mm
1	Fabricated bend (IS 3419)	Each	9.00	14.00	34.00	68.00	99.00
2	PVC coupler	„	2.20	4.00	8.00	13.00	20.00
5	Female bush adaptor	„	4.40	6.00	14.00	19.00	33.00
6	Male bush adaptor	„	4.40	6.00			
7	Saddle base with screw	„	4.80	6.40	9.00	10.00	12.00

5. Corrugated PVC flexible conduit and accessories.

Sl. No.	Description & unit	Size						
		10 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50mm
1	Corrugated PVC flexible conduit / meter	9.00	9.00	11.00	18.00	25.00	35.00	55.00
2	PVC adopter / each			7.00	9.00			

6. Double Walled Corrugated (DWC) pipes made out of HDPE for mechanical protection to underground power / communication / OFC / Signal cables conforming to IS 14930 Part – II

Sl. No.	Size OD / ID in mm	Price per m in Rs.	Price per each in Rs.	
		Pipe	End cap/bend	Snap fit Coupler
1	2	3	4	5
1	40/32	70.00	-	20.00
2	50 / 38	84.00	17.00/65.00	--
3	63 / 50	100.00	-	22.00
4	77 / 63	107.00	24.00/86.00	33.00
5	90 / 75	160.00	122.00/122.00	41.00
6	110 / 94	205.00	-	44.00
7	120 / 102.50	228.00	172.00/190.00	48.00
8	125 / 109	250.00	-	53.00
9	145 / 123	312.00	bend242.00	57.00
10	160 / 135	336.00	bend297.00	66.00
11	175 / 147	384.00	bend341.00	77.00
12	180 / 153	410.00	-	85.00
13	200/174	456.00	bend374.00	88.00
14	250/217	570.00	-	-
15	315/271	750.00		-

7. Thermoplastic Meter Boxes

Sl. No.	Description	Unit	Rate Rs.
1	300x300x17mm	Each	2870.00
2	450x300x214mm	„	4040.00
3	600x300x214mm	„	5285.00

8. Empty Boxes (IP65)

Sl. No.	Description	Unit	Rate Rs.
1	300x150x170mm	Each	1350.00
2	300x300x170mm	„	1895.00
3	300x450x170mm	„	2535.00
4	300x600x170mm	„	3045.00

PART V

CABLE MANAGEMENT SYSTEM
(Conforms to IEC 61084 / BS 476 and BS 4678)

1. PVC Cable Management System and accessories.

Sl. No.	Description	Unit	Rate Rs.	
			50 x 50mm	100 x 50mm
1	Cable management system with base and lid	m	214.00	534.00
2	Cable divider	„		64.00
3	External angle 90°	Each	85.00	93.00
4	Flat angle 90°	„	73.00	101.00
5	Internal angle 90°	„	83.00	83.00
6	Internal coupler	„	53.00	43.00
7	Flat cross	„	382.00	400.00
8	End cap	„	50.00	53.00
9	Flanged coupler	„	75.00	111.00
10	Joint cover	„	44.00	57.00
11	Cable retainer	„	84.00	84.00
12	1 to 3 module mounting box	„		80.00
13	4 to 5 module mounting box	„		96.00
14	8 module mounting box	„		171.00
15	Spacer for box	„		9.00
16	1-3 /4- 5 module under box divider	„		10.00
17	Wall plate for internal angle	„	41.00	41.00
18	Mini trunking adapter	„		12.00
19	MCB / RCD housing			176.00
20	Reducer 100 x 50 to 50 x 50mm			105.00

PART VI**SWITCH, PLUG, BELL PUSH, CEILING ROSE & INDUSTRIAL PLUG****1.A. Piano type switches and accessories.**

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	6 A 1 way switch	Each	15.00
2	6 A 2 way switch	„	17.00
3	6 A bell push	„	16.50
4	16A 1way switch	,	47.00
5	6A 3pin socket	„	20.00
6	16A 3 pin socket	„	46.00
7	6/16A switch socket combined flush type	„	76.00
8	„ „ „ with neon	„	87.00
9	6A 3pin plug top	„	23.00
10	16A 3pin plug top	„	38.00
11	3plate ceiling rose	„	16.00

1.B. Industrial type Plugs and Sockets.

Sl. No.	Description	Unit	Rate Rs.	
			250 V 10 A	250 V 20 A
1	SP & N metal case enclosure with 2 pole and earth plug socket along with pin suitable for incorporating SPMCB/ SP RCCB (Less cost of MCB/RCCB) conforming to I.S.8804.	Each	554.00	576.00
2	20ATP&N		1670.00	
3	2 pole + Earth, 250V, Industrial plug socket	„	115.00	130.00
4	2 pole + Earth, 250V, Industrial plug top	„	115.00	137.00
5	20A TP&N		158.00	166.00
6	30A „		281.00	281.00

1.C. Insulated plug Socket

Sl. No.	Description	Unit	Rate Rs.	
			IP44	IP67
1	Insulated plug socket 16/20A-2p+E	Each	450	980

2. Modular switches and accessories B-Group / ROHS Compliant

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	6 A SP 1 way switch	Each	88.00
2	10A SP 1 way switch	„	94.00
3	6 A SP 1 way switch with indicator	„	104.00
4	10 A SP 1 way switch with indicator	„	88.00
5	10A bell push with indicator	„	140.00
6	6 A SP 1 way bell push with indicator	„	116.00
7	6 A SP 2 way switch	„	104.00
8	16A switch	„	120.00
9	16AWith led	„	136.00
10	16A 2w	„	140.00
11	20A	„	124.00
12	20A with led	„	152.00
13	20A2w	„	140.00
14	20A DP switch with LED	„	232.00
15	32A „ „	„	280.00
16	6A2M 3pin plug	„	120.00
17	16A 3pin plug	„	172.00
18	Universal plug 6A	„	112.00
19	6/16A	„	176.00
20	6/10/13A	„	164.00
21	100w regulator	„	424.00
22	RJ11 socket	„	104.00
23	RJ45 with cover	„	312.00
24	TV Socket	„	110.00
25	RJ socket with socket	„	84.00
26	Charger pin	„	101.00
27	6A plug top	„	44.00
28	„ with indicator	„	53.00
29	Single phase Motor starter (20 A with current setting of 11A to 18 A for 2 Ton A/C)	„	524.00
30	Single phase Motor starter (25 A with current setting of 16A to 25 A for 2.5 Ton A/C)	„	536.00
31	LED foot light	„	432.00
32	„ indicator	„	84.00
33	Shaver socket	„	2240
34	Buzzer LED	„	192.00
35	16A plug top	„	68.00
36	„ „ with indicator	„	75.00
37	20A energy Key Tag with time delay-3module	„	1452.00
38	Blank plate 1 M	„	16.00
39	„ 2M	„	18.00
40	Blank plate 4 M	„	36.00

3. Cover frame & Grid frame for modular switches and accessories.

Sl. No.	Description	Unit	Rate Rs.	
			Surface boxes	Front plates
1	1 module	Each	64.00	69.00
2	2 module	„	64.00	69.00
3	3 module	„	72.00	82.00
4	4 module	„	72.00	84.00
6	6 module	„	88.00	112.00
7	8 module	„	102.00	142.00
8	9 module	„	104.00	148.00
9	10 module	„	108.00	166.00
10	12 module	„	120.00	196.00
11	16 module	„	172.00	212.00

4. MS Boxes.

Sl. No.	Description	Unit	Rate Rs.
1	1 module	Each	52.00
2	2 module	„	52.00
3	3 module	„	64.00
4	4 module	„	64.00
5	6 module	„	76.00
6	8 module	„	104.00
7	9mod	„	110.00
8	10 module	„	172.00
9	12 module	„	192.00
10	16 module	„	196.00
11	24 module	„	252.00

5. Bell and Bell indicators.

Sl. No.	Description	Unit	Rate Rs.
1	Buzzer	Each	60.00
2	Ding dong Bell	„	120.00
3	Musical bell with different sound	„	350.00
4	Call bell		90.00
5	DC operated remote controlled electric bell	„	799.00
6	Gong Bell 75 mm	„	575.00
7	„ 100 mm	„	700.00
8	„ 150 mm	„	800.00
9	„ 225 mm	„	1225.00
10	„ 300 mm	„	1425.00
11	Bell indicator with 1mod box and cover	Per way	826.00

PART VII**LAMPS****1. Fluorescent tube lights.**

Sl. No.	Description	Unit	Rate Rs.
1	28 W fluorescent tube light (T5) with high lumen output & RoHS compliant	Each	175.00

2. Non-retrofit CFL.

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	PL-S 5/7/9 W – 2P / 4P	Each	70.00
2	PL-S 11 W - 2P / 4P	„	80.00
3	PL-C 10 W – 2P / 4P	„	100.00
4	PL-C 13 W - 2P / 4P	„	105.00

3. Retrofit CFL (with power factor > 0.85).

Sl. No.	Description	Unit	Rate Rs.
1	Dwarf size 5 W BC / ES / E 14	Each	115.00
2	Dwarf size 8 W BC / ES / E 14	„	120.00
3	Dwarf size 11 W BC / ES / E 14	„	130.00
4	Dwarf size 14 W BC / ES / E 14	„	150.00
5	Normal size 8 W BC / ES	„	120.00
6	Normal size 11 W BC / ES	„	130.00
7	Normal size 14 W BC / ES	„	140.00
8	Normal size 15 W BC / ES	„	140.00
9	Spiral 7 W BC / ES	„	170.00
10	Spiral 9 W BC / ES	„	170.00
11	Spiral 11 W BC / ES	„	200.00
12	Spiral 13 W BC / ES	„	210.00
13	Spiral 15 W BC / ES	„	220.00

PART VIII**LIGHT FITTINGS AND ACCESSORIES****1. Light Fittings.****1.A. Aviation Lamps.**

Sl. No.	Description	Unit	Rate Rs.
1	Single unit LED aviation obstruction light with yellow painted die-cast aluminium alloy housing, , heat resistant clear thick glass (IP 54)	Each	4145.00

1.B. Lamp Holders.

Sl. No.	Description	Unit	Rate Rs.
1	Skirt type straight batten holder	Each	19.00
2	Skirt type angle batten holder	„	19.00
3	Pendent holder	„	17.00

1.C. Lamp Shades.

Sl. No.	Description	Unit	Rate Rs.							
			150 mm		200 mm		250 mm		300 mm	
1	Polished Aluminium shade	„			54.00		67.00			
2	Glass dome	„	Clear	Milky	Clear	Milky	Clear	Milky	Clear	Milky
			48.00	48.00	97.00	109.00	187.00	218.00	394.00	460.00
3	Cut glass shade	„	33.00							
4	Bell shaped glass shade	„	40.00							

2. Fluorescent light fittings

Sl. No.	Description	Unit	Rate Rs.
1	Fluorescent tube light fitting with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes. The fittings shall be made from CRCA MS sheet of minimum thickness 0.50 mm nominal thickness inside & outside.		
a	Suitable for single 28 W T5 lamp	E	1518.00
2	Fluorescent tube light fitting with bi-directional reflector complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes. The fittings shall be made from CRCA MS sheet of minimum thickness 0.50 mm nominal thickness inside & outside.		
a	Suitable for single 28 T5 W lamp Accessories	E	1851.00
1	Bi- pin tube holder	„	8.00
2	APF electronic control gear for 1 x 28W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant	„	900.00
3	APF electronic control gear for 2 x 28W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant	„	1000.00
4	APF electronic control gear for 4 x 14/ 4x24 W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant	„	1270.00

3. Surface mounting type decorative luminaries

Sl. No.	Description	Unit	Rate Rs.
1	Surface mounting decorative fluorescent tube light fitting (Cat-2) complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes.		
A	Suitable for single 28 W T5 lamps	E	2500.00
b	Suitable for twin 28 W T5 lamps	E	3559.00

4. Recessed mounting type decorative luminaries

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	Recess mounting decorative fluorescent tube light fitting (Cat-2) complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for twin 28 T5 W lamps	E	5046.00
b	Suitable for 4 Nos 14 W T5 lamps	E	5631.00
	Recess mounting decorative direct - indirect fluorescent tube light fitting complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes.		
	Suitable for 4 Nos 14 W T5 lamps	E	5091.00

5. Street light fittings for fluorescent lamps

Sl. No.	Description	Unit	Rate Rs. Group A
1	Fluorescent street light fitting with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for single 28 W T5 lamp	E	1892.00
c	Suitable for 4 Nos 14 W T5 lamps	E	6667.00
d	Suitable for 4 Nos 24 W T5 lamps	E	6893.00

6. LED Light Fittings

Sl. No.	Description	Unit	Rate Rs. Group A
1	16w LED tube light with box type fixture 1200mm	E	2150.00
2	19w LED tube light with box type fixture 1200mm	E	2150.00
3	8w LED tube light with fixture 600mm	E	1200.00

7. LED Street light fittings

Sl. No.	Description	Unit	Rate Rs.
			Group A
1	LED street light with luminaries comprising of powder coated housing enclosed with glass cover in frame IP65		
a	20LED Street light 24 w	E	16000.00
c	30 LED Street light 36 w	E	20723.00
d	40LED Street light 48 w	E	21358.00
e	60LED Street light 72 w	E	39644.00
f	30LED Street light 60 w	E	47471.00
g	49LED Street light 90 w	E	53743.00

8. Recess Mounting type Down lighters with LED

Sl. No.	Description	Unit	Rate Rs.
			Group A
1	9 w LED type down lighter.	E	3424.00
2	12 w LED type down lighter	E	5947.00
3	Ascent down lighter 1w	E	2072.00
4	Wall recess mounting LED step light luminaire 1 w	E	2523.00
5	Single/double sided LED EXIT signage with built in battery back up.	E	7388.00

PART IX

FANS AND ACCESSORIES

1. Ceiling fans, wall fans and exhaust fans.

Sl. No.	Description	Unit	Rate Rs.	
A	Ceiling fan, complete with 300mm down rod, canopies, shackles and blades and without regulator working on 230/240V single phase A/C		Group A	Group B
1	2	3	4	5
1	900 mm sweep	E	1050.00	
2	1050 mm sweep	E	1050.00	
3	1200 mm sweep – 5 star rated	E		1480.00
4	1400 mm sweep	E		1446.00
5	Ball bearing	E	110.00	
7	Rubber shackle	E	6.00	
8	Split pin / cotter pin	E	2.75	
B	Wall Mounting fan			
1	300 mm sweep	E	1425.00	
2	400 mm sweep	E	1575.00	
C	Light Duty Exhaust fan in plastic body with self opening lowers working on 230V single phase A/C			

1	150 mm sweep	E	950.00	
2	200 mm sweep	E	1050.00	
3	250 mm sweep	E	1100.00	
D	Light Duty Exhaust fan in metal frame working on 230 V A/C			Group B
1	225 mm sweep	E		1200.00
2	300 / 305 mm sweep	E		1300.00
E	Heavy Duty Exhaust fan working on 230 V A/C	E		1400 rpm
1	305 mm sweep	E		1990.00
2	380 mm sweep	E		2450.00
3	450 mm sweep	E		3305.00

2. Capacitors for fans & motors.

Sl. No.	Capacitor value in mfd.	Unit	Rate Rs.
1	1.00	Each	22.00
2	1.50	„	26.00
3	1.80	„	26.00
4	2.00	„	26.00
5	2.25	„	30.00
6	2.50	„	32.00
7	3.00	„	44.00
8	3.15	„	44.00
9	3.80	„	55.00
10	4.00	„	62.00

PART X

M.C.B DISTRIBUTION BOARDS AND ACCESSORIES

1. Sheet steel, phosphatised and painted enclosure for independent mounting of MCBs / RCCBs / RCBOs

Sl. No.	Description	Unit	Rate Rs.
1	SP Enclosure	Each	282.00
2	DP Enclosure	„	395.00
3	TP Enclosure	„	406.00
4	FP Enclosure	„	411.00

- 2. Single phase double coversheet steel phosphatised painted MCB DB's with bus bar, neutral link, earth bus and DIN rail (without MCB / Isolator) conforming to IS 13032 and IS 8623**

Sl. No.	Description	Unit	Rate Rs.
			IP42
1	4 way	Each	1000.00
2	6 way	„	1050.00
3	8 way	„	1150.00
4	10 way	„	1250.00
5	12 way	„	1414.00

- 3. Three phase double cover MCB distribution board for single phase outgoing, sheet steel phosphatised and painted with bus bar neutral link, earth bar and DIN rail (without MCB / Isolator) conforming to IS 13032 and IS 8623.**

Sl.No	Description	Unit	Rate Rs.
			2
1	4 way (8 + 12)	Each	2622.00
2	6 way (8 + 18)	„	3234.00
3	8 way (8 + 24)	„	3872.00
4	12 way (8 + 36)	„	5807.00

- 4. TPN double cover Vertical DBs with provision for fixing 4P MCB / isolator / RCCB / RCBO as incomer and SP / TP MCB as out going.**

Sl. No.	Description	Unit	Rate Rs.	
			IP 42 / 43	
			with provision for fixing isolator up to 125 A as incomer - without isolator	with provision for fixing MCCB up to 125A as incomer - without MCCB
1	4 way (8 + 12)	Each	6401.00	7470.00
2	6 way (8 + 18)	„	7450.00	8449.00
3	8 way (8 + 24)	„	8065.00	9468.00
4	12 way (8 + 36)	„	10797.00	12602.00

5. Three phase single cover panel board IP 41 with provision for fixing 3 pole/ 4 pole MCCB as incomer & SP/ TP/ FP MCCB as outgoings without MCCBs.

Sl. No	Description - No. of outgoings	Unit	Rate Rs			
			With provision for fixing TP MCCB up to 250 A as incomer & SP / TP MCCBs as outgoings	With provision for fixing TP MCCB up to 400 A as incomer & SP / TP MCCBs as outgoings	With provision for fixing FP MCCB up to 250 A as incomer & SP / FP MCCBs as outgoings	With provision for fixing FP MCCB up to 400 A as incomer & SP / FP MCCBs as outgoings
1	2	Each	24662.00	30547.00	27075.00	33630.00
2	4	„	30543.00	36338.00	33583.00	39995.00
3	6	„	36053.00	41800.00	39710.00	45980.00
4	8	„	38561.00	44270.00	42418.00	48735.00
5	12	„	48569.00	54435.00	62225.00	68533.00

6. Accessories for panel boards.

Sl. No	Description	Unit	Rate Rs	
			For panel board with TP MCCB as incomer	For panel board with FP MCCB as incomer
A	Cable alley (for – No. of ways)			
1	2	Each	9747.00	10723.00
2	4	„	11319.00	12445.00
3	6	„	13015.00	15271.00
4	8	„	13015.00	15271.00
5	12	„	14958.00	16454.00
B	Bare meter module with Provision for Digital Ammeter, voltmeter with selector switch	„	3525.00	3525.00
C	MCB module	„	3800.00	3800.00
D	Add-on module	„	3525.00	3525.00

7. MCB and Isolators

7. A Single pole & 2 pole MCB 10 kA (IS: 8828 – 1995/IEC 60898)

Sl. No	Current rating A	Unit	Rate Rs			
			Single pole		Two pole	
			C curve	D Curve	C curve	D Curve
1	0.5	E	222.00	236.00	614.00	646.00
2	1	E	222.00	„	„	„
3	1.6	E	222.00	„	„	„
4	2	E	222.00	„	„	„
5	3	E	222.00	„	„	„
6	4	E	222.00	„	614.00	„
7	6	E	155.00	201.00	452.00	490.00
8	10	E	155.00	„	„	„
9	16	E	155.00	„	„	„
10	20	E	155.00	„	„	„
11	25	E	155.00	„	„	„
12	32	E	155.00	201.00	448.00	485.00

13	40	E	322.00	361.00	739.00	788.00
14	50	E	326.00	366.00	748.00	„
15	63	E	326.00	„	739.00	788.00

7. B. Three pole & Four pole MCB 10 kA (IS: 8828 – 1995/IEC 60898)

Sl. No	Current rating A	Unit	Rate Rs			
			Three pole		Four pole	
			C curve	D curve	C curve	D curve
1	0.5	E	952.00	992.00	1221.00	1269.00
2	1	E	„	„	„	„
3	1.6	E	„	„	„	„
4	2	E	„	„	„	„
5	3	E	„	„	„	„
6	4	E	952.00	992.00	1221.00	„
7	6	E	739.00	783.00	969.00	1037.00
8	10	E	„	„	„	„
9	16	E	„	„	„	„
10	20	E	„	„	„	„
11	25	E	„	„	„	„
12	32	E	730.00	779.00	965.00	1028.00
13	40	E	1125.00	1228.00	1455.00	1544.00
14	50	E	1147.00	1228.00	1473.00	1544.00
15	63	E	1125.00	1228.00	1455.00	1544.00
16	80	E	3790.00	4208.00	5433.00	5918.00
17	100	E	3885.00	4247.00	5587.00	6064.00

7.C. Mini break isolators

Sl. No	Current rating A	Unit	Rate Rs		
			Two Pole	Three Pole	Four Pole
1	25	E	260.00	402.00	496.00
3	40	E	272.00	453.00	579.00
4	63	E	327.00	500.00	619.00
5	80	E	390.00	559.00	721.00
6	100	E	536.00	756.00	1032.00

8. RCCB (earth leakage protection)

Sl. No	Current rating A	Unit	Rate Rs					
			30 mA		100 mA		300 mA	
			2 Pole	4 Pole	2 Pole	4 Pole	2 Pole	4 Pole
1	16	E						
2	20	E	--	--	--	--		--
3	25	E	1675.00	2238.00	1745.00	2325.00	1757.00	2344.00
4	32	E		--		--		--
5	40	E	1962.00	2269.00	2045.00	2356.00	2065.00	2376.00
6	63	E	2380.00	2620.00	2403.00	2722.00	2482.00	2746.00
7	80	E	3589.00	3633.00	3727.00	3302.00	3727.00	3310.00
8	100	E	7955.00	16989.00	7001.00	15074.00	7005.00	14286.00
9	125	E	10291.00	16989.00	9058.00	15074.00	9062.00	14286.00

9. Change Over switches suitable for mounting on MCB DB

Sl. No	Description	Unit	Rate
1	25 A Single pole 2 way with centre off	Each	920.00
2	40 A Double pole 2 way with centre off,	„	1400.00
3	40 A four pole 4module 2 way with centre OFF 400 V AC	„	2480.00

PART XI

SWITCH DISCONNECTOR AND ACCESSORIES

1. Switch Disconnecter Unit (isolators)

1.A. TP / TPN Switch Disconnecter Unit (isolators) AC 23 A, 415 V, 50 Hz, complete with handle Assembly having door interlock and pad locking arrangement.

Sl. No	Rating A	Unit	Rate Rs			
			TPN in Open Execution	TPN in Sheet Steel Enclosure	FP in Open Execution	FP in Sheet Steel Enclosure
1	32	E	1216.00	2498.00	1216.00	2498.00
2	63	E	1672.00	2988.00	1672.00	2988.00
3	100	E	3312.00	3663.00	3391.00	4104.00
4	125	E	4120.00	6206.00	3442.00	4968.00
5	200	E	5248.00	9329.00	4954.00	6307.00

2. Switch Disconnecter Fuse Unit and accessories.

2.A. AC 23 A, 415 V, 50 Hz, DP Switch Disconnecter Fuse Unit

Sl.No	Rating A	Unit	Rate Rs	
			In open execution DIN /BS Type	In sheet steel enclosure DIN/BS Type
1	32	E	1300.00	1841.00
2	63	E	1631.00	2133.00

2.B. AC 23 A, 415 V, 50 Hz, TPN Switch Disconnecter Fuse Unit

Sl. No	Rating A	Unit	Rate Rs	
			In open execution DIN /BS Type	In sheet steel enclosure DIN/BS Type
1	32	E	1256.00	2720.00
2	63	E	1728.00	3320.00
4	100	E	3760.00	5480.00
5	125	E	4912.00	6488.00
6	160	E	5416.00	6880.00
7	200	E	6408.00	8536.00
8	250	E	8136.00	10248.00
9	315	E	10056.00	12264.00
10	400	E	12120.00	14032.00
12	630	E	19208.00	22176.00

2. C. Four Pole, AC 23 A, 415 V, 50 Hz Switch Disconnecter Fuse unit

Sl.No	Rating A	Unit	Rate Rs	
			In open execution	In sheet steel enclosure
			DIN /BS Type	DIN/BS Type
1	32	E	2074.00	2727.00
2	63	E	2624.00	3272.00
3	100	E	5279.00	6489.00
4	125	E	5661.00	6881.00
5	160	E	8100.00	9837.00
6	200	E	8244.00	9986.00
7	250	E	8982.00	10967.00
8	315	E	11826.00	14810.00
9	400	E	13581.00	16551.00
10	630	E	24174.00	26478.00

3. AC 23 A, 415 V, 50 Hz, On-Load Change Over Switches and accessories.

Sl.No	Rating A	Unit	Rate Rs	
			4 Pole On - load change – over switch	
			In Open Execution	In SS Enclosure
1	63	E	3398.00	4709.00
2	100	E	4493.00	6005.00
3	125	E	6768.00	8921.00
4	160	E	7409.00	9785.00
5	200	E	8942.00	11290.00
6	250	E	12888.00	15710.00
7	315/320	E	13608.00	16438.00
8	400	E	19678.00	24041.00
9	630	E	23378.00	27857.00

4. Fuse puller for DIN type-Rs. 378/-**5. HRC fuse bases**

Sl. No.	Rating A	Unit	Rate Rs		
			BS type	DIN type	Bakelite fuse fittings
1	20	Each	86.00	--	95.00
2	32	„	106.00	120.00	110.00
2	63	„	180.00	170.00	195.00
3	100	„	450.00	210.00	450.00
4	125	„	500.00	235.00	--
5	160	„	--	240.00	--
6	250	„	--	420.00	--
7	400	„	--	596.00	--
8	630	„	--	810.00	--

5A. DIN type fuse links

Sl. No	Rating A	Unit	Rate Rs			
			Size 000	Size 00	Size 1	Size 2
1	2.4	E				
3	6-32	E	152.00	187.00		
8	32	E	„	„	367.00	
9	35/36	E	„	„	„	
10	40	E	„	„		
11	50	E	„	„	„	
12	63	E	„	187.00	„	
13	80	E	„	187.00	„	
14	100	E	158.00	187.00	367.00	
15	125	E		234.00	389	
16	160	E		252.00	„	
17	200	E			389.00	569.00
18	250	E			439.00	569.00
19	315	E				569.00
20	350/355	E				734.00
21	400	E				598.00
22	425	E				
23	500	E				734.00
24	630	E				900.00

5B. BS type fuse links of sizes F1 to A4

Sl. No	Rating A	Unit	Rate Rs					
			Clip-on offset tag – size F1	Bolted offset tag – size A1	Bolted offset tag – size A1L	Bolted offset tag – size A2	Bolted offset tag – size A3	Bolted offset tag – size A4
1	2	E	40.00	36.00				
2	4	E	40.00	36.00		56.00		
3	6	E	40.00	36.00		„		
4	8	E	--	36.00		„		
5	10	E	40.00	36.00		„		
6	12	E	--	36.00		„		
7	16	E	40.00	36.00		„		
8	20	E	44.00	40.00	64.00	„		
9	25	E	44.00	40.00	64.00	„		
10	32	E	44.00	40.00	64.00	56.00	64.00	
11	35/36	E			78.00		„	
12	40	E			78.00		„	
13	50.63	E			78.00		64.00	144.00
15	80,100,125	E			161.00			144.00
18	160	E						200.00
19	200	E						228.00

5C. BS type fuse links of sizes B1 to C2

Sl. No	Rating A	Unit	Rate Rs					
			Bolted central tag – Size B1	Bolted central tag – Size B2	Bolted central tag – Size B3	Bolted central tag – Size B4	Bolted central tag – Size C1	Bolted central tag – Size C2
1	50,63	E	150.00					
2	100	E	150.00					
3	125	E	150.00	208.00				
4	160,200	E		208.00				
5	250	E		232.00	320.00			
6	225-355	E			320.00			
7	355	E				584.00	590.00	
8	400	E				584.00	590.00	660.00
9	450,500	E						660.00
10	630	E						1020.00

5. 2 Way neutral links mounted on DMC/SMC base

Sl. No.	Rating	Unit	Rate Rs.
1	32 A	Each	48.00
2	63 A	„	113.00
3	100 A	„	191.00

6. Castel key Lock

Sl. No.	Rating A	Unit	Rate Rs.
1	100-250,315-800	„	1026.00

7. Key Interlock (3 locks two keys)

Sl. No.	Rating A	Unit	Rate Rs.
1	25-63,100-250,315-800	Each	1836.00

PART XII**MCCBS AND ACCESSORIES****1. MCCBs with Thermal Magnetic release having adjustable OL****1.A. Current limiting type ($I_{cs} = 100\% I_{cu}$) – $I_{cu} = 25 / 35$ kA (Thermal setting from 80% to 100%)**

Sl. No.	Rating A	Unit	Rate Rs.	
			$I_{cu} = 25/35$ kA	
			3 Pole	4 Pole
1	16	Each	4299.00	6477.00
2	25-40	„	4299.00	6477.00
3	50-63	„	4299.00	6477.00
4	80-100	„	4299.00	6477.00
5	125	„	5548.00	7585.00
6	160	„	7632.00	9712.00

2. MCCBs with Microprocessor based release having adjustable OL & SC**2.A. Current limiting type ($I_{cs} = 100\% I_{cu}$) – $I_{cu} = 35 / 50 / 70$ kA**

Sl. No.	Rating A	Unit	Rate Rs.			
			$I_{cu} = 35/36$ kA		$I_{cu} = 50/55$ kA	
			3 Pole	4 Pole	3 Pole	4 Pole
1	10-100	„	7950.00	10800.00	10100.00	12300.00
2	125	„	8200.00	12050.00	10800.00	17400.00
3	160	„	9100.00	13500.00	13200.00	21000.00
4	200	„	10400.00	16000.00	15050.00	23700.00
5	250	„	14934.00	18500.00	16900.00	24300.00

3B. Current limiting type ($I_{cs} = 100\% I_{cu}$) – $I_{cu} = 50/ 55$ kA & 70 kA (Thermal setting from 80% to 100%)microprocessor based trip unit

Sl. No.	Rating A	Unit	Rate Rs			
			$I_{cu} = 50/55$ kA		$I_{cu} = 70$ kA	
			3 Pole	4 Pole	3 Pole	4 Pole
1	1.6-100	Each	13000 .00	17000.00	16000.00	19220.00
2	160	„	16150.00	23000.00	20350.00	25964.00
3	200	„	22000.00	27000.00	22600.00	32900.00
4	250	„	22250.00	27150.00	22700.00	33000.00
5	315	„	23000.00	30000.00	23880.00	36396.00
6	400	„	23500.00	30200.00	23900.00	36436.00
7	630	„	26000.00	40000.00	28400.00	45184.00
8	800	„	37000.00	52500.00	44064.00	57884.00

4. **3 pole MCCBs, with only SC protection for motor starters ($I_{cs} = 100\% I_{cu}$) current limiting type**

Sl. No.	Rating A	Unit	Rate Rs.	Rate Rs.
			$I_{cu} = 55 \text{ kA}$	$I_{cu} = 70 \text{ kA}$
1	1-100	Each	8550.00	9700.00
2	160	„	12500.00	16100.00
3	250	„	17556.00	20000.00
4	315	„	21576.00	22600.00

5. **Earth fault Module of MCCB for external CTs (%VA, 5P10) without CT**

Sl. No.	Rating	Unit	Rate Rs.
1	Up to 100A	Each	4280.00
2	125-200	„	5000.00
3	250-400	„	5700.00
4	500-800	„	6460.00

6. **Accessories for MCCBs**

Sl. No.	Description	Unit	Rate Rs.
	Auxiliary Switch (1 NO + 1 NC)		
1	Up to 400A	Each	890.00
2	630A	„	1647.00
	Auxiliary Switch + Alarm switch (1 NO + 1 NC & 1 NO)		
1	Up to 400A	„	1379.00
2	630A	„	1915.00
	Under Voltage release		
1	For all voltage ranges up to 400A MCCB	„	2112.00
2	For all voltage ranges 630A to 1600A MCCB	„	2498.00
	Shunt release		
1	For all voltage ranges up to 400A MCCB	„	1584.00
2	For all voltage ranges 630A to 1600A MCCB	„	2116.00
	Rotary drive Kit (including BUC handle with door inter-lock defeat and pad lock facility)		
1	Up to 160A-250A	„	1284.00
3	315- 400A-630-800	„	1710.00
	Kastel inter-lock kit		
1	Up to 250A	„	2072.00
2	315 to 800A	„	2128.00
	Spreader /Terminal adapter Kit		
1	Extended terminal for 3 pole MCCB of rating up to 160 A (6 Pcs)	„	528.00
2	Extended terminal for 4 pole MCCB of rating up to 160 A (8 Pcs)	„	650.00
3	Extended terminal for 3 pole MCCB of rating 200 A & 250 A (6 Pcs)	„	709.00
4	Extended terminal for 4 pole MCCB of rating 200 A & 250 A (8 Pcs)	„	914.00
5	Extended terminal for 3 pole MCCB of rating 320 A (6 Pcs)	„	784.00
6	Extended terminal for 4 pole MCCB of rating 320 A (8 Pcs)	„	981.00
7	Extended terminal for 3 pole MCCB of rating 400 A & 630 A	„	981.00

	(6 Pcs)		
8	Extended terminal for 4 pole MCCB of rating 400 A & 630 A (8 Pcs)	„	981.00

PART XIII

CONTACTORS

1. Capacitor duty contactors for switching capacitor banks with AC Coil, 3 Pole.

Sl. No.	For capacitor banks of Rating KVAR	Auxiliary Contacts	Unit	Rate Rs.
1	4 – 7	1 NO	Each	
2	7.5 – 10	1 NO	„	1490.00
3	11 – 15		„	1541.00
4	16 - 25		„	2642.00
5	28 – 50	1 NO	„	7762.00
6	60		„	9202.00

PART XIV

AIR CIRCUIT BREAKERS AND ACCESSORIES

1. ACBs with thermal magnetic release with OL & SC protection.

Sl. No.	Rating	Unit	Rate Rs.			
			3 Pole ACB		4 Pole ACB	
			Manual Draw Out	Electrical Draw Out	Manual Draw Out	Electrical Draw Out
1	630	Each	92444.00	119575.00	120182.00	147313.00
	800		94016.00	121147.00	123070.00	150201.00
2	1000	„	100210.00	127341.00	129992.00	157123.00
3	1250	„	125371.00	152502.00	149031.00	176161.00
4	1600	„	134551.00	161682.00	162884.00	190014.00

2. Accessories for ACBs.

Sl. No.	Description	Unit	Rate Rs.
1	Shunt release	Each	2021.00
2	Instantaneous Under Voltage release	„	2541.00
3	Motorized operating mechanism	„	22371.00
4	Castel lock unit	„	2900.00

PART XV

PANEL MOUNTING METERS

1. Digital meters.

Sl. No.	Description	Parameter	Unit	Rate Rs.	
				Accuracy class 1	Accuracy class 0.50
Single phase meters					
1	Single phase Voltmeter	V	Each	824.00	1024.00
2	Single phase Ammeter	A	„	893.00	1080.00
Three phase meters					
1	Three phase Voltmeter	V – RY, YB, BR, R, Y, B.	„	1433.00	1757.00
2	Three phase Ammeter	A- R,Y,B.		1584.00	1915.00
Multifunction meters					
1	Multifunction meter to read:	V, A, F Three phase	„	2535.00	3172.00
2	Multifunction meter to read:	W, Wh or VA, Vah or VAR, VARh or PF – 3 ph	„	5071.00	6339.00
3	Multifunction meter to read:	W, Wh, PF or VA, Vah, PF or VAR, VARh, PF – 3 ph	„	5916.00	7339.00

1.B. Surface Mounting Meters.

Sl. No.	Description	Unit	Rate Rs.	
			Accuracy class 1	Accuracy class 0.50
A	TOD meters			
1	3 Phase, 3 wire, 110 V (L-L), -/1 A CT or -/5A CT with 485 port	Each		21600.00
2	3 Phase, 3 wire, 110 V (L-L), -/1 A CT or -/5A CT	„		18000.00
B	Base mount electronic type energy meter – accuracy class 1			
1	Single phase KWh meter, 240 V, 5 – 30 A	„		1280.00
2	Single phase KWh meter, 240 V, 10 – 60 A	„		1520.00
3	3 Phase, 4 wire, CT operated, 240 V, 1-2 A	„	3760.00	
4	3 Phase, 4 wire, CT operated, 240 V, 5-10 A	„	3360.00	
5	3 Phase, 4 wire, direct reading, 240 V, 5-20 A,10-40A	„	3360.00	
6	3 Phase, 4 wire, direct reading, 240 V, 10-60 A	„	3440.00	
C	Flush mount electronic type energy meters 96 x 96 mm – accuracy class 1			
1	3 Phase, 4 wire, 240 V, 1 A	„	4860.00	
2	3 Phase, 4 wire, 240 V, 5 A	„	4860.00	

2. Ammeter and Voltmeter Selector Switches

Sl. No.	Rating	Unit	Rate Rs.
1	Ammeter selector switch 6A 3 Pole	Each	172.00
2	Voltmeter selector switch 6 A 3 Pole		
a	To read 3 phases	„	124.00
b	To read 3 phases + N	„	379.00
c	To read 3 Ph & 3Ph.N	„	374.00

3. Current Transformers for Metering and Protection applications

3.A. Metering CT (Resin Cast) (Burden- 5VA, Accuracy Class - 0.5)

Sl. No.	CT ratio	Unit	Rate Rs.
1	100/5A	Each	1081.00
2	150/5A	„	908.00
3	200/5 A	„	910.00
4	250/5 A	„	983.00
5	300/5 A	„	890.00
6	400/5 A	„	870.00

3.B. Protection CT (Tape wound) (Burden- 5VA, Accuracy Class - 10P5)

Sl. No.	CT ratio	Unit	Rate Rs.
1	100/5 A	Each	1479.00
2	150/5 A	„	1473.00
3	200/5 A	„	1490.00
4	300/5 A	„	1535.00
5	400/5 A	„	1551.00
6	500/5 A	„	1586.00

PART XVI

INDICATIONS AND LEGEND PLATES

1. LED indicators and push button stations.

Sl. No.	Description	Unit	Rate Rs.
1	LED indicator (6 V AC/DC, 12V AC/DC, 24 V AC/DC, 48V AC/DC 63.5V AC/DC, 110 V AC/DC, 220V DC, 240 V AC), 22.5 mm cut out dia.		
A	White colour	„	149.00
B	Blue colour	„	149.00
C	Red, Green, Black, Yellow, Orange colours	„	87.00

2	Flush head Push Button with 1 NC Block	„	69.00
3	Flush head Push Button with 1 NO Block	„	69.00
4	Illuminated flush head Push Button with LED	„	135.00
5	Flush head Actuator – Red with legend ‘stop’ , (Contact – 1 NC)	„	241.00
6	Flush head Actuator – Green with legend ‘start’ , (Contact – 1 NO)	„	241.00
7	Illuminated Flush head Actuator – Green with legend ‘ON’ , (Contact – 1 NO)	„	286.00
8	Illuminated Flush head Actuator – Red with legend ‘OFF’ , (Contact – 1 NC)	„	276.00
9	Push button station enclosure 1/ 2/ 3 hole	„	137.00
10	Flush head Actuator – Red with legend ‘stop’ , (Contact – 1 NC) and Green with legend ‘start’ , (Contact – 1 NO)	„	350.00

2. Legend Plates

Sl. No.	Description and size	Unit	Rate Rs.
Square type aluminium anodised legend plates.			
1	Danger 415 V, 200 x 150 mm	Each	90.00
2	Danger 415 V, 150 x 100 mm	„	48.00
3	Danger 415 V, 125 x 75 mm	„	29.00
4	Danger 415 V, 100 x 75 mm	„	24.00
5	Bus bar chamber, 100 x 40 mm	„	12.00
6	Cable alley, 100 x 40 mm	„	12.00
7	Earth, 40 x 20 mm with 8 mm hole	„	3.30
8	Auto - Manual, 40 x 25 mm with 15 m hole	„	4.40
Square type Enameled danger notice plates			
1	Danger 415 V, 250 x 200 mm	„	190.00
2	Danger 415 V, 200 x 150 mm	„	190.00
3	Danger 415 V, 150 x 100 mm	„	98.00
Semi - oval type aluminium anodised legend plates			
1	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, EMERGENCY ON, EMERGENCY OFF,PUMP RUNNING, PUMP OFF, EMERGENCY STOP, SLOW, FAST etc.	„	4.40

PART XVII

BUSBAR SUPPORTS

1. Conical type Bus bar support system in DMC / Heavy duty L – type SMC bus bar supports.

Sl. No.	Conical type - DMC			Unit	Rate Rs.	‘L’ type – SMC			Unit	Rate Rs.
	Dimensions in mm					Dimensions in mm				
	Top dia	Bottom dia	Height			Width	Base Length	Height		
1	22	25	25	Each	14.00	50	40	60	Each	38.00

2	23/26	30	30	„	18.00	50	40	85	„	40.00
3	33	40	40	„	27.00	50	40	100/105	„	45.00
4	38/40	50	50	„	55.00	50	40	125	„	49.00

2. Finger type SMC bus bar supports (single pole).

Sl. No.	Dimensions in mm				Unit	Rate Rs.	
	Width	Height	Thickness	Slot size		1 bus bar	2 bus bar
1	50	70	14	7.2-13.7	Each	27.00	
2	60	70	14	7.2-13.7	„	35.00	355.00
3	70	70	14	7.2-13.7	„	64.00	64.00

3. Finger type SMC bus bar supports (TPN).

Sl. No.	Dimensions in mm				Unit	Rate Rs.	
	Width	Height	Thickness	Slot size		1 bus bar per phase	2 bus bar per phase
1	300	50	10	7.2-13.7	Each	121.00	
2	350	52	10	7.2-13.7	„	154.00	154.00
3	420	60	12	7.2-13.7	„	231.00	231.00

4. DMC Earthing flat supports.

Sl. No.	Description	Unit	Rate Rs.
1	Flat type Earthing flat support suitable for 20x3/20x6/25x3/25x6/32x3/32x6/40x3/40x6 mm flats	Each	47.00
2	T - type Earthing flat support suitable for 20x3/20x6/25x3/25x6/32x3/32x6/40x3/40x6 mm flats	„	49.00

5. Heat shrinkable PVC Sleeves (for bus bar insulation/isolation), 0.2+0.03mm thick, 25% shrinkage and Dielectric 2.5 to 7KV

Sl. No.	Size of sleeve in mm	Size of rod or strip to which the sleeve suits	Unit	Rate Rs.
1	16	8-10 mm dia, 8x4 mm, 6x6 mm, 10x3 mm	m	6.00
2	20	10-12 mm dia, 12x3 mm, 9x6 mm	„	6.50
3	27	12x6 mm, 15x3 mm	„	8.00
4	33	15x9 mm, 15x6 mm, 20x3 mm, 18x6 mm, 20x 6 mm, 25x3 mm	„	8.00
5	41	25x6 mm, 25x10 mm, 25x12 mm	„	10.00
6	48	30x6 mm, 30x10 mm	„	11.00
7	55	30x12 mm, 38x6 mm	„	12.00
8	61	38x9 mm, 38x12 mm, 40x6 mm, 40x10 mm	„	13.00
9	73	50x6 mm	„	16.00
10	81	50x10 mm, 50x12 mm, 60x6 mm	„	18.00
11	93	60x10 mm, 60x12 mm, 75x6 mm	„	20.00
12	103	75x10 mm, 75x12 mm	„	23.00
13	110	90x6 mm, 90x12 mm	„	24.00

14	128	100x6 mm, 100x10 mm	„	27.00
15	140	100x12 mm, 110x6 mm, 110 x10 mm	„	30.00
16	170	125x6 mm, 125x12 mm, 150x6 mm	„	37.00
17	190	150x10 mm, 150x12 mm	„	42.00
18	210	175x6 mm, 175x10 mm, 175x12 mm	„	55.00
19	230	200x6 mm, 200x12 mm	„	60.00

6. Heat Shrinkable tubing (Polyolefin Grade) 50% shrinkage.

Sl. No.	Description		Unit	Rate in Rs.
	ID before shrinkage in mm	ID after shrinkage in mm		
1	2	3	4	5
1	1.00	0.50	M	1.50
2	1.50	0.75	do	1.80
3	2.00	1.00	do	2.10
4	2.50	1.25	do	2.20
5	3.00	1.50	do	2.40
6	3.50	1.75	M	2.60
7	4.00	2.00	do	2.75
8	4.80	2.40	do	3.10
9	5.00	2.50	do	2.90
10	6.00	3.00	do	3.40
11	6.40	3.20	do	4.00
12	7.00	3.50	do	3.20
13	8.00	4.00	do	3.20
14	9.00	4.50	do	3.50
15	9.50	4.75	do	4.00
16	10.00	5.00	do	4.10
17	12.00	6.00	Do	4.20
18	12.70	6.35	Do	4.40
19	13.00	6.50	Do	5.10
20	14.00	7.00	Do	5.80
21	15.00	7.50	Do	6.00
22	16.00	8.00	Do	5.40
23	18.00	9.00	Do	6.80
24	19.00	9.50	Do	8.00

PART XVIII**CAPACITORS****1. Capacitor for direct connection to Motor – Rs. 197/ KVAR****2. Power Capacitors 3 phase delta connected.**

Sl. No.	Rating (KVAR)	Unit	Rate Rs.		
			MPPDD 440 IS-13340	APP-DD IS 13585-440V	MPPDD-IS 13340-520V
1	4	„			--
2	5	„	1561.00	2601.00	4171.00
3	6	„			--
4	7.5	„	2341.00	3902.00	--
5	10	„	3121.00	5202.00	6650.00
6	12.5	„	3902.00	5326.00	7448.00
7	15	„	4682.00	7803.00	8938.00
8	20	„	6242.00	10404.00	11917.00
9	25	„	7803.00	1300500	14896.00

2. Intelligent Power Factor Controllers (IPFC)

Sl. No.	Description	Unit	Rate Rs.
		Each	
1	8 stage 440 / 110 V 5A/1A	„	10560.00
2	12 stage 440 / 110V 5A/1A	„	133914.00
3	14 stage 440 / 110 V 5A/1A	„	13120.00

3. Block Reactors (copper wound suitable for filtering of harmonics up to 7% THD)

Sl. No.	Description	Unit	Rate Rs.
1	Block Reactor Transformers, 400 V suitable for 5 KVAR 460 V	Each	5600.00
2	Block Reactor Transformers, 400 V suitable for 10 KVAR 460 V	„	8800.00
3	Block Reactor Transformers, 400 V suitable for 12.5 KVAR 460 V	„	10382.00
4	Block Reactor Transformers, 400 V suitable for 15 KVAR 460 V	„	10800.00
5	Block Reactor Transformers, 400 V suitable for 20 KVAR 460 V	„	12800.00
6	Block Reactor Transformers, 400 V suitable for 25 KVAR 460 V	„	13600.00
7	Block Reactor Transformers, 400 V suitable for 50 KVAR 460 V	„	21600.00
8	Block Reactor Transformers, 400 V suitable for 75 KVAR 460 V	„	32000.00
9	Block Reactor Transformers, 400 V suitable for 100 KVAR 460 V	„	44000.00

PART XIX

MOTOR STARTERS

1. Single Phase DOL starters

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs
	HP	KW			Coil operated
1	.5-1	.37-.75	4-10A	Each	800.00
2	0.75	0.56		„	„
3	1	0.75		„	„
4	1.5	1.12		„	„
5	2	1.49		„	„
6	3	2.24		„	900.00

2. Three Phase DOL starters.

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		With SPP
1	0.05-5	.04-3.7	Each	2100.00
2	7.5	5.50	„	2100.00

3. Forward Reverse Starter

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		With SPP
1	2 – 7.5	1.5 – 5.50	Each	4750.00

4. Semi-automatic Star Delta Starter.

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.
	HP	KW			With SPP
1	12.5/15	9.3/11.00	9-14/11-18	Each	4849.00
2	25	19.00	13-21	„	6100.00
3	35	26.00	20-32	„	10200.00

5. Fully automatic Star Delta Starter.

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.
	HP	KW			With SPP
7	15	11.00	9-15	Each	7000.00
9	25	19.00	14-23	„	8400.00
10	30	22.50	20-33	„	13400.00

11	35	26.00	20-32	„	13600.00
13	50	37.00	30-50	„	20000.00
16	75	55.00	45-75	„	34255.00
18	90	67.50	45-75	„	38000.00
19	125	90.00	66-100	„	50000.00

6. Pump starters for single phase Submersible motor pumps (DOL).

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.
	HP	KW			
1	0.5	0.37	6.5-11	Each	1680.00
2	1	0.75	12-20	„	1708.00
3	1.5	1.12	12-20	„	1825.00
4	2	1.50	12-20	„	1940.00

7. Pump starters for Three phase Submersible motor pumps (DOL type)

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.
	HP	KW			
1	6	4.50	9-14	Each	3750.00
2	10	7.50	13-21	„	4100.00

8. Pump starters for Three phase Submersible motor pumps (Fully automatic Star Delta).

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.
	HP	KW			
1	20	15.00	13-21	Each	8200.00
2	20	15.00	28-42	„	9908.00
3	30	22.00	20-33/30-50		15650.00
4	50	37.00	30-50/45-75		22250.00

9. Oil Immersed Star Delta starter

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		
1	Up to 20	Up to 15.00	Each	11598.00
2	30	22.00	„	11391.00
3	40	30.00	„	14392.00
4	50	37.00	„	17837.00

10. Combined Stator Rotor Starter for Slip ring Motor

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		
1	Up to 20	Up to 15.00	Each	21861.00
2	20-30	15.00 – 22.50	„	24997.00
3	30-40	22.50 – 30.00	„	27014.00
4	40-50	30.00 – 37.00	„	32472.00
5	50-60	37.00 – 45.00	„	34840.00

11. ATS

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		
1	Up to 15	Up to 11.00	Each	27960.00
	15-20	11.00 – 15.00		30601.00
2	20-30	15.00 – 22.50	„	32779.00
3	30-40	22.50 – 30.00	„	36829.00
4	40-50	30.00 – 37.00	„	40038.00

12. Slip ring Starter with separate OCB

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		
1	Up to 70	Up to 52.50	Each	52720.00
2	70-75	52.50 – 55.00		54776.00
3	75-100	55.00 – 75.00	„	60769.00
4	100-150	75.00 – 112.00	„	66920.00
5	150-200	112.00 – 150.00	„	133435.00

13. Fully Automatic ATS

Sl. No.	Motor rating		Unit	Rate Rs.
	HP	KW		
1	Up to 15	Up to 11.00	Each	32932.00
	15-20	11.00 – 15.00		36254.00
2	20-30	15.00 – 22.50	„	47323.00
3	30-35	22.50 – 25.00	„	55796.00
4	35-50	25.00 – 37.00	„	67886.00

PART XX**EARTHING MATERIALS AND ACCESSORIES**

Sl. No.	Description	Unit	Rate Rs.
1	Copper Strip all sizes	Kg.	582.00
3	Copper wire 0 to 14 SWG	„	582.00
4	GI strip all sizes	„	85.00
5	Aluminum strip	„	251.00
6	1200 x 1200 x 12.5 mm CI / GI earth plate	Each	4900.00
7	600 x 600 x 6.3mm CI / GI earth plate	„	1300.00
8	300x300x3mm copper plate	„	1500.00
9	300x300x6mm copper plate	„	3160.00
10	600x600x6mm copper plate	„	11600.00
11	600x600x3mm copper plate	„	6350.00
12	Charcoal	m ³	2300.00
13	GI funnel with weld mesh at top	Each	65.00
14	Gully trap with covering box in CI (300x300x10mm)	„	340.00
15	Gully trap with covering box in CI (300x300x6mm)	„	230.00
16	Gully trap with covering box in CI (450x450x10mm)	„	800.00
17	Copper tubular earth socket for 2mm (14 SWG) conductor	„	7.00
18	Copper tubular earth socket for 2.65 mm (12 SWG) conductor	„	8.00
19	Copper tubular earth socket for 3.14 mm (10 SWG) conductor	„	8.00
20	Copper tubular earth socket for 4.00 mm (8 SWG) conductor	„	11.00
21	Copper tubular earth socket for 4.75 mm (6 SWG) conductor	„	18.00
22	Copper tubular earth socket for 6.00 mm (4 SWG) conductor	„	21.00
19	Copper tubular earth socket for 7.00 mm (2 SWG) conductor	„	27.00
20	Copper tubular earth socket for 8.00 mm (0 SWG) conductor	Each	27.00
21	25x3mm brass bolt with hexagonal/square head, nut and washer	„	6.00
22	25x6mm brass bolt with hexagonal/square head, nut and washer	„	8.70
23	12x3mm brass bolt with hexagonal/square head, nut and washers	„	3.00

PART XXI**FRP / SMC SHEETS / PHENOLIC LAMINATED SHEETS****1. FRP / SMC / Phenolic laminated // sheets**

Sl. No.	Thickness of laminate	Unit	Rate Rs.			
			FRP Laminates (1m x 1m)	SMC Laminates (1m x 1m)	SMC chequered plate (1m x 1m)	Phenolic Laminated sheets (1.20m x 1.20m)
1	2 mm	Each	1900	1800.00	2150.00	
2	3 mm	„	2300.00	2400.00	2800.00	720.00
3	4 mm	„	2700.00	3200.00		1050.00
4	5 mm	„	3500.00	4100.00	4950.00	
5	6 mm	„	3750.00	4850.00	6100.00	1550.00
6	8 mm	„	4900.00	6500.00	7400.00	2100.00

2. Elastomeric fire retardant insulating mat as per IS 15652/2006

Sl. No	Thickness of sheet in mm	Voltage class KV	Unit	Rate
1	2.00 mm	3.30	m ²	1539.00
2	2.50 mm	11	m ²	1924.00
3	3.00 mm	33	m ²	3078.00

PART XXII

MISCELLANEOUS ITEMS

1. Winding Materials.

Sl. No.	Size	Unit	Rate Rs.
Super enameled copper winding wire.ROHS Compliant			
1	10 SWG to 19 SWG	Kg	620.00
2	20 SWG to 22 SWG	„	623.00
3	23 SWG to 25 SWG	„	625.00
4	26 SWG to 36 SWG	„	630.00
Other items.			
1	Nanax Paper, 5 mil	Kg	2574.00
2	Nanax Paper, 7 mil	Kg	1487.00
3	Nanax Paper, 10 mil	Kg	1373.00
4	Milnex Paper, 5 / 7 / 10 mil	„	229.00
5	Triflex paper 5 / 7 / 10 mil	„	211.00
6	Pressphan Paper 5/7/10 mil	„	138.00
7	Doctor beck Varnish, air drying bottle	Litre	166.00
8	Sleeve, 1mm	m	1.70
9	Sleeve, 2mm	„	2.30
10	Sleeve, 3 mm	„	3.10
11	Sleeve, 4 mm	„	4.10
12	Sleeve, 5 mm	„	6.20
13	Sleeve, 6 mm	„	6.80
14	Sleeve, 7 mm	„	7.25
15	Sleeve, 8 mm	„	8.25
16	Sleeve, 9 mm	„	9.20
17	Sleeve, 10 mm	„	10.60
18	Cotton tape, 25 mm (40 m roll)	Roll	29.00
19	Cotton tape, 20 mm (40 m roll)	„	25.00
20	Cotton tape, 12 mm (40 m roll)	„	23.00
21	Fibre glass tape, 25 / 20/ 12 mm (40 m roll)	„	103.00
22	Fibre glass cloth, 5 / 7 / 10 mil	m	103.00
23	Cotton Waste	Kg.	91.00
24	Banyan Waste	Kg.	137.00
25	Electric insulating coating	LTR	575.00

26	Helmet as per IS 2925/87	E	540.00
27	Insulated hand gloves IS 4770/1991	pair	704.00
28	Dielectric shoes	„	8000.00
29	Arc face shield	E	800.00

2. Other items

Sl. No.	Description and size	Unit	Rate Rs.
1	M.S. rod type fan clamp for R.C.C. slab neatly painted with one coat of red oxide primer and two coats of enamel paint	Each	35.00
2	Flat iron 40 x 6 mm, 150mm long x 2 Nos with M.S. rod bent to shape, neatly painted with 2 coats of enamel paint over a coat of red oxide primer (fan clamp)	set	47.00
3	L.T. Cable route marker, cast iron, spike and inscription L.T. Cable		
a	102mm Round	„	47.00
b	152mm Round	„	58.00
c	102 x 102mm Square	„	58.00
d	152x 152mm Square		70.00
4	Solvent cement or PVC adhesive	250 ml	49.00
5	Corrosion inhibiting compound	50 g	25.00
6	Pvc grip	100 Nos.	16.00
8	Non adhesive PVC insulation tape roll of 3 mtr.	Each	13.00
9	Adhesive PVC insulation tape		
a	19 mm x 10 m length	„	13.00
b	19 mm x 5 m length	„	7.50
10	PVC round block	„	10.00