



**GOVERNMENT OF KERALA**

**PUBLIC WORKS DEPARTMENT**

**SCHEDULE OF RATES**  
(ELECTRICAL)

**2010**

**VOLUME – II**

(With effect from 14-05-2010)

## GENERAL INSTRUCTIONS

1. The Schedule of Rates is for estimating purpose only and shall be followed both for original and maintenance works. This supersedes 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.
4. This volume II relates to rates of Electrical items. (Volume I relates to civil works and were revised with effect from 14.05.2010 vide G.O. (Rt.) No. 791/2010/PWD Dated 14.05.2010.
5. For materials like cement, iron, wire cut bricks and other similar materials, labours etc. covered in Volume I for civil works, that may be followed for Volume II also.
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 the 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 per cent 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 are correct. These are the minimum leads required."
8. The Schedule of Rates 2010 shall come into force as per GO (Rt) No. 791 / 2010/PWD Dated Thiruvananthapuram, 14. 05. 2010

Office of the Chief Engineer, P.W.D  
Administration  
Thiruvananthapuram-695033

**T. BABURAJ**  
*Chief Engineer*

# I N D E X

	Page No.
<b>A LABOUR CHARGES</b>	1
<b>B RATE FOR MATERIALS</b>	
Part I	WIRES AND CABLES 2 – 6
Part II	CABLE TERMINATIONS & JOINTS 7 – 11
Part III	M.S. BOXES 11 – 12
Part IV	CONDUITS AND ACCESSORIES 13 – 15
Part V	CABLE MANAGEMENT SYSTEM 15 – 20
Part VI	SWITCH, PLUG, BELL PUSH, CEILING ROSE & INDUSTRIAL PLUG 20 – 27
Part VII	LAMPS 28 – 32
Part VIII	LIGHT FITTINGS AND ACCESSORIES 32 – 38
Part IX	FANS AND ACCESSORIES 38 – 39
Part X	M.C.B DISTRIBUTION BOARDS AND ACCESSORIES 39 – 46
Part XI	SWITCH DISCONNECTOR AND ACCESSORIES 46 – 51
Part XII	M.C.C.BS AND ACCESSORIES 51 – 57
Part XIII	CONTACTORS 57 – 59
Part XIV	AIR CIRCUIT BREAKERS AND ACCESSORIES 59 - 60
Part XV	DIGITAL PROTECTIVE RELAYS 60 – 63
Part XVI	PANEL MOUNTING METERS 63 – 70
Part XVII	INDICATIONS AND LEGEND PLATES 71 - 71
Part XVIII	BUSBAR SUPPORTS 72 – 74
Part XIX	CAPACITORS 74 – 75
Part XX	MOTOR STARTERS 75 – 79
Part XXI	EARTHING MATERIALS AND ACCESSORIES 79 – 79
Part XXII	RUBBER SHEETS / FRP / SMC SHEETS / PHENOLIC LAMINATED SHEETS AND CRCA SHEETS 79 - 80
Part XXIII	MISCELLANEOUS ITEMS 80 - 83

## SCHEDULE OF RATES (ELECTRICAL) – 2010

### A. RATES FOR LABOUR

Sl. No.	Description	Unit	Rate
1	Black Smith	Each Per day	325
2	Blaster of quarryman		270
3	Cable Jointer	„	290
4	Cable Jointer mate	„	225
5	Carpenter	„	325
6	Cleaner	„	270
7	Cleaner-Lift irrigation	„	225
8	Driver- Pump driver/Operator	„	270
9	Electrician	„	290
10	Fitter	„	300
11	Hammer man for helping blaster		225
12	Hardware Technician ( Computer)	„	350
13	Laterite cutter		270
14	Lineman	„	270
15	Lineman Assistant	„	240
16	Marble cutter		350
17	Mason – Brick or laterite		325
18	Mason – Rubble mason		325
19	Man Mazdoor	„	240
20	Mazdoor - Heavy Load Mazdoor for handling iron materials	„	270
21	Mazdoor – Woman	„	240
22	Mechanic Grade I	„	350
23	Mechanic Grade II	„	325
24	Mechanic- II pump/ Generator	„	325
25	Motor winder	„	350
26	Operator- Lift irrigation	„	270
27	Operator- Lift	„	225
28	Painter	„	270
29	Plumber/Pipe fitter	„	325
30	Skilled Assistant ( Diploma Holder)	„	475
31	Skilled Assistant ( Engineering Degree Holder)	„	600
32	Skilled Assistant (ITI holder)	„	350
33	Technician- Electronic machinery	„	350
34	Tile paver	„	325
35	Turner- I	„	300
36	Turner- II		270
37	Welder -Gas welding/Arc welding	„	325
38	Wireman	„	290
39	Wireman Assistant	„	270
40	Wireman Helper	„	225
41	Wood cutter	„	300

**B. RATES FOR MATERIALS****PART I****WIRES AND CABLES****1. COPPER CONDUCTOR WIRES**

- 1.A. FR 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.
1	1.0	100 meters	832.00
2	1.5	„	1245.00
3	2.5	„	1970.00
4	4.0	„	2941.00
5	6	„	4604.00
6	10	„	7668.00
7	16	„	12125.00
8	25.0	„	19445.00
9	35.0	„	25647.00
10	50.0	„	37182.00
11	70.0	„	53414.00
12	95.0	„	70410.00
13	120.0	„	88883.00
14	150.0	„	110610.00
15	185.0	„	135784.00
16	240.0	„	189492.00
17	300.0	„	231550.00
18	400.0	„	336863.00

- 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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	0.5	16/0.20 mm	100 mtr.	1698.00	2057.00	2556.00
2	0.75	24/0.20 mm	„	2065.00	2657.00	3348.00
3	1	32/0.20 mm	„	2453.00	3232.00	4179.00
4	1.5	48/0.20 mm	„	3257.00	4276.00	5643.00
5	2.5	80/0.20 mm	„	5030.00	6911.00	8974.00
6	4	128/0.20 mm (56/0.30 mm)	„	7521.00	10278.00	13414.00
7	6	85/0.30 mm	„	12336.00	15793.00	20798.00

1	2	3	4	5	6	7
8	10	140/0.30 mm	100 mtr.	19957.00	26528.00	34733.00
9	16	226/0.30 mm	„	30987.00	40677.00	53064.00
10	25	157/0.45 mm	„	61387.00	64325.00	83924.00
11	35	220/0.45 mm	„	82752.00	99247.00	129941.00
12	50	314/0.45 mm	„	128240.00	143385.00	194206.00
13	70	140/0.45 mm	„		156444.00	204512.00
14	95	595/0.45 mm	„		207929.00	269042.00
15	120	755/0.45 mm	„		269089.00	349915.00

**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 Metre	4700.00
2	2.5	36/0.30	„	6939.00
3	4.0	56/0.30	„	10480.00
4	6.0	85/0.30	„	15356.00
5	10.0	140/0.30	„	25524.00
6	16.0	225/.30	„	40677.00
7	25.0	354/.30	„	66793.00
8	35.0	495/.30	„	95288.00
9	50.0	22/0.30	„	128578.00

#### 1.D. UTP Cables

Sl. No.	Description	Unit	Rate in Rs
1	Cat 5E UTP cable	100 Metre.	1544.00
2	Cat 6 UTP cable	„	2605.00

#### 1.E. TV Co-Axial Cables

Sl. No.	Description	Unit	Rate in Rs
1	RG 59 cable	100 Metre.	1673.00
2	RG 11 cable	„	1965.00
3	RG 6 cable	„	3859.00

**1.F. PVC insulated and PVC sheathed copper conductored Telephone pair cables for indoor application** (un-armoured) conforming to ITD specifications - 0.50mm dia.

Sl. No.	No. of pairs	Unit	Rate in Rs
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	1	100 Metre.	562.00
2	2	„	1005.00

1	2	3	4
3	3	100 Metre.	1383.00
4	4	„	1818.00
5	5	„	2236.00
6	6	„	2690.00
7	8	„	3438.00
8	10	„	4192.00
9	20	„	8344.00
10	50	„	21115.00
11	100	„	42154.00

**1.G.** Hook up wires (Rate for 100 m) - Rs. 105.00

## 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				
			1 core	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	„		90006.00	104899.00		110079.00
4	16.0	„	56917.00	97129.00	116554.00		137923.00
5	25.0	„	71085.00	107528.00	143556.00	169612.00	178891.00
6	35.0	„	85706.00	131506.00	182531.00	199677.00	222198.00
7	50.0	„	104135.00	168434.00	228848.00	263976.00	290861.00
8	70.0	„	151177.00	219355.00	299104.00	345661.00	383147.00
9	95.0	„	160586.00	266974.00	368441.00	426071.00	477679.00
10	120.0	„	179299.00	319553.00	447310.00	537445.00	581736.00
11	150.0	„	208244.00	385665.00	542496.00	622530.00	702693.00
12	185.0	„	252988.00	471851.00	660539.00	771525.00	865028.00
13	240.0	„	314956.00	602197.00	854279.00	987151.00	1116526.00
14	300.0	„	379125.00	737426.00	1046723.00	1208604.00	1372881.00
15	400.0	„	475671.00	920779.00	1314798.00	1520451.00	1733616.00
16	500.0	„	592420.00	1149744.00	1658698.00	1916089.00	2210453.00
17	630.0	„	744523.00	1479852.00	2160594.00	2452433.00	2886922.00

**2B.** PVC insulated single core un-armoured cables with aluminium stranded conductors 660 / 1100 V grade conforming to IS 1554 part I 1988

Sl.No	Nominal Area in sq. mm	Unit	Rate in Rs.
1	2	3	4
1	16	1000 Metre.	29250.00

1	2	3	4
2	25	1000 Metre	42150.00
3	35	„	53775.00
4	50	„	71400.00
5	70	„	91800.00
6	95	„	123450.00
7	120	„	153600.00
8	150	„	183675.00
9	185	„	229575.00
10	240	„	294300.00
11	300	„	361500.00
12	400	„	474975.00

**2C. PVC / XLPE insulated armoured cables with copper 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	100 0m	137600.00	176320.00		220160.00
2	6.0	„	181600.00	238000.00		301200.00
3	10.0	„	273120.00	375840.00		461920.00
4	16.0	„	376880.00	514640.00		674400.00
5	25.0	„		875520.00	1043840.00	1153600.00
6	35.0	„		1189440.00	1365360.00	1569680.00
7	50.0	„		1606000.00	1881520.00	2123920.00
8	70.0	„		2246000.00	2623760.00	2997360.00
9	95.0	„		3117200.00	3632560.00	
10	120.0	„		3911840.00	4644400.00	
11	150.0	„		4814320.00	5552160.00	
12	185.0	„		5986160.00	7009120.00	
13	240.0	„		7880240.00	9051840.00	
14	300.0	„		9747760.00	11335440.00	
15	400.0	„		12538160.00	14512000.00	

**2D. 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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	35.0	100 m	58293.00
2	50.0	„	65943.00
3	70.0	„	78872.00
4	95.0	„	93483.00
5	120.0	„	106565.00
6	150.0	„	120870.00
7	185.0	„	140148.00
8	240.0	„	172278.00
9	300.0	„	198518.00
10	400.0	„	239904.00

**3. CONTROL CABLES**

PVC / XLPE insulated armoured control cables with copper 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.	No. of core	Unit	Rate in Rs	
			1.5 sq. mm	2.5 sq. mm
1	2	1000 m	77448.00	102144.00
2	3	„	92064.00	128100.00
3	4	„	111468.00	156744.00
4	5	„	133896.00	186984.00
5	6	„	152040.00	219660.00
6	7	„	164556.00	241500.00
7	8	„	197484.00	287028.00
8	9	„	220500.00	301392.00
9	10	„	238896.00	328356.00
10	12	„	249228.00	382536.00
11	14	„	285348.00	437304.00
12	16	„	320880.00	493920.00
13	19	„	371616.00	574896.00
14	24	„	462504.00	719040.00
15	27	„	511392.00	--
16	30	„	578172.00	882672.00
17	37	„	678300.00	1073772.00
18	44	„	803796.00	1267812.00
19	52	„	935256.00	1479744.00
20	61	„	1083516.00	1720068.00

**PART II****CABLE TERMINATIONS & JOINTS****1. Nickel plated single 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		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	2/ 3/ 3.5/ 4	1.50	10 (3/8")	Each	19.00
2	„	2.50	12 (1/2")	„	23.00
3	„	2.50	16 (5/8")	Each	23.00
4	„	4.00	19 (3/4")	„	29.00
5	„	6.00	22 (7/8")	„	35.00
6	„	10.00	25 (1")	„	43.00
7	„	16.00	28 (1 <sup>1</sup> / <sub>8</sub> ")	„	67.00
8	„	25.00	32 (1 <sup>1</sup> / <sub>4</sub> ")	„	74.00
9	„	35.00	35 (1 <sup>3</sup> / <sub>8</sub> ")	„	101.00
10	„	50.00	38 (1 <sup>1</sup> / <sub>2</sub> ")	„	122.00
11	„	70.00	40 (1 <sup>5</sup> / <sub>8</sub> ")	„	135.00
12	„	95 / 120	45 (1 <sup>3</sup> / <sub>4</sub> ")	„	148.00
13	„	150.00	50 (2")	„	168.00
14	„	185.00	57 (2 <sup>1</sup> / <sub>4</sub> ")	„	218.00
15	„	240.00	63 (2 <sup>1</sup> / <sub>2</sub> ")	„	337.00
16	„	300.00	70 (2 <sup>3</sup> / <sub>4</sub> ")	„	348.00
17	„	3 x 400	75 (3")	„	373.00
18	„	3 <sup>1</sup> / <sub>2</sub> x 400	82 (3 <sup>1</sup> / <sub>4</sub> ")	„	404.00
19	„	500.00	88 (3 <sup>1</sup> / <sub>2</sub> ")	„	541.00
20	„	630.00	95 (3 <sup>3</sup> / <sub>4</sub> ")	„	673.00
21	„	630.00	100 (4")	„	708.00

**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	6.50
2	25 to 95	65 mm long x 20 mm wide x 1.20 mm thick	„	14.00

**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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	2.5	Each	2.10	3.70	1.80

1	2	3	4	5	6
2	4	„	2.10	3.70	1.80
3	6	„	2.30	3.70	1.80
4	10	„	2.40	4.80	1.80
5	16	„	3.10	6.90	2.70
6	25	„	3.70	9.50	3.50
7	35	„	4.80	12.00	4.40
8	50	„	7.00	16.00	6.60
9	70	„	11.00	21.00	10.50
10	95	„	12.50	34.00	11.00
11	120	„	17.50	53.50	16.00
12	150	„	21.50	63.00	18.50
13	185	Each	28.00	85.00	24.50
14	240	„	44.00	159.00	39.00
15	300	„	61.50	202.00	56.50
16	400	„	83.50		78.00
17	500	„	136.00		
18	630	„	162.00		

### 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	--	--	2.90
2	2.5	„	3.10	9.40	3.80
3	4	„	6.30	9.40	4.70
4	6	„	6.80	9.40	5.60
5	10	„	7.90	12.50	6.80
6	16	„	10.50	17.80	8.90
7	25	„	17.00	28.00	15.50
8	35	„	21.00	38.00	19.00
9	50	„	29.50	42.00	25.00
10	70	„	47.00	63.00	42.00
11	95	„	57.50	93.50	52.50
12	120	„	63.00	178.00	57.50
13	150	„	84.00	202.00	73.50
14	185	„	126.00	218.00	115.00
15	240	„	189.00	467.00	174.00
16	300	„	236.00		226.00
17	400	„	346.00		315.00

### 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	1.60	1.80	1.90	2.10

2	2.5	„	2.30	2.50	2.20	2.40
3	4 / 6	„	4.20	4.50	4.20	4.50
4	10	„	4.70	5.10	5.70	6.20
5	16	„	8.90	9.30	9.40	9.90
6	25	„	13.50			
7	35	„	18.00			
8	50	„	31.50			
9	70	„	47.00			
10	95	„	55.50			

#### 4. Copper soldering terminals

Sl No.	Current rating	Bolt size	Unit	Rate Rs.
1	15 A	M 6	Each	4.00
2	30 A	M 6	„	6.10
3	60 A	M 6	„	14.00
4	100 A	M 10	„	28.50
5	150 A	M 13	„	45.00
6	200 A	M 13	„	65.00
7	300 A	M 13	„	136.00
8	400 A	M 16	„	163.00
9	500 A	M 16	„	210.00

#### 5. 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.

#### 6. 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.

#### 7. 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
7	3 x 500	„	10376.00	10181.00
8	1 x 500	„	3594.00	3938.00

**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

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

Sl No.	Cable size in Sq. mm	Unit	Rate Rs.
1	2	3	4
1	3 x 16/25	Each	7773.00
2	3 x 35	„	7997.00
3	3 x 50	„	8465.00
4	3 x 70	„	8764.00
5	3 x 95	„	9022.00
6	3 x 120	„	10172.00

1	2	3	4
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

**9. 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	6607.00

**10. Cable jointing compound (pack with resin and hardener)**

Sl No.	Description and unit	Unit	Rate Rs.
1	Cable jointing compound for HT cables	1200 gm.	472.00
2	Cable jointing compound for HT cables	600 gm.	494.25
3	Cable jointing compound for LT cables	1200 gm.	812.35
4	Cable jointing compound for LT cables	600 gm.	436.23
5	Casting /potting compound	1040 gm	870.38
6	Brushable epoxy compound	1000 gm.	460.00
7	GPFC putty	1000 gm.	834.10

**PART III**

**M.S. BOXES**

**A. MS boxes made out of 16 gauge CRCA sheet without front cover and painted grey.**

Sl. No.	Size of box	Unit	Rate Rs.				
			M.S Box			Phenolic laminated sheet	
			50 mm deep	75 mm deep	100 mm deep	3 mm thick	6 mm thick
1	2	3	4	5	6	7	8
1	75 mm x 75 mm	Each	47.00	60.00	72.00	6.00	
2	100 mm x 100 mm	„	56.00	72.00	89.00	10.00	
3	100 mm x 125 mm	„	65.00	84.00	103.00	12.00	
4	125 mm x 150 mm	„	74.00	96.00	118.00	19.00	
5	125 mm x 200 mm	„	90.00	116.00	143.00	25.00	
6	125 mm x 250 mm	„	107.00	138.00	168.00	31.00	
7	125 mm x 300 mm	„	125.00	160.00	194.00	37.00	

1	2	3	4	5	6	7	8
8	150 mm x 150 mm	„	95.00	121.00	147.00	22.00	
9	150 mm x 200 mm	„	116.00	146.00	176.00	30.00	
10	200 mm x 250 mm	„	167.00	206.00	245.00	50.00	
11	200 mm x 300 mm	„	193.00	237.00	281.00	60.00	
12	250 mm x 300 mm	„	227.00	275.00	323.00	75.00	
13	250 mm x 375 mm	„	270.00	326.00	381.00		250.00
14	250 mm x 500 mm	„	347.00	413.00	479.00		333.00
15	300 mm x 300 mm	„	261.00	315.00	368.00		239.00
16	300 mm x 600 mm	„	467.00	546.00	625.00		479.00
17	375 mm x 375 mm	„	370.00	436.00	502.00		374.00
18	375 mm x 500 mm	„	476.00	554.00	633.00		499.00
19	375 mm x 600 mm	„	557.00	643.00	729.00		599.00
20	500 mm x 600 mm	„	707.00	803.00	900.00		799.00

**B. MS boxes with hinged type MS front door made out of 16 gauge CRCA sheet with railway pattern lock and key and painted grey.**

Sl. No.	Size of box	Unit	Rate Rs.		
			50 mm depth	75 mm depth	100 mm depth
1	75 mm x 75 mm	Each	76.00	88.00	101.00
2	100 mm x 100 mm	„	93.00	110.00	127.00
3	150 mm x 100 mm	„	121.00	143.00	165.00
4	150 mm x 150 mm	„	155.00	182.00	208.00
5	200 mm x 100 mm	„	147.00	173.00	200.00
6	200 mm x 150 mm	„	190.00	221.00	251.00
7	200 mm x 200 mm	„	237.00	272.00	307.00
8	250 mm x 200 mm	„	278.00	317.00	356.00
9	300 mm x 200 mm	„	322.00	366.00	411.00
10	350 mm x 250 mm	„	443.00	499.00	554.00
11	375 mm x 250 mm	„	460.00	518.00	575.00
12	375 mm x 300 mm	„	538.00	596.00	655.00
13	500 mm x 300 mm	„	715.00	777.00	839.00
14	500 mm x 375 mm	„	832.00	910.00	989.00
15	600 mm x 300 mm	„	811.00	889.00	968.00
16	600 mm x 375 mm	„	979.00	1075.00	1172.00

**PART IV****CONDUITS AND ACCESSORIES****1.A. M.S. Conduits and Accessories.**

Sl. No.	Description	Unit	Rate Rs.			
			16 mm	20 mm	25 mm	32 mm
1	Mild Steel conduit ISI 16 SWG	100m	2600.00	4780.00	6500.00	7000.00
2	Solid bend	100 Nos	1400.00	2500.00	2700.00	2900.00
3	Inspection bend	„	1680.00	2500.00	2700.00	2900.00
4	Sockets	„		270.00	315.00	382.00
5	Saddle clip	„		198.00	330.00	462.00
6	Junction box 1/ 2 way	„		1080.00	--	--

**1.B. Fan Boxes and Ball & sockets.**

Sl. No.	Description	Unit	Rate Rs.
1	Fan box with fan clamp (MS)	E	44.00
2	Ball & socket 12 mm	E	24.00
3	Ball & socket 20 mm	E	16.50
4	Ceiling plate (PVC)	E	2.80

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

Sl. No.	Description	Unit	Rate Rs.		
			Light	Medium	Heavy
1	Rigid P.V.C Conduit 20 mm	metre	15.00	18.00	23.50
2	„ 25 mm	„	21.50	24.00	31.50
3	„ 32 mm	„	33.50	40.50	51.00
4	„ 40 mm	„	61.00	68.00	75.50
5	„ 50 mm	„	91.00	97.00	112.00

**2.B. 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	32 mm
1	1 way terminal	Each	13.50	17.00	22.00	25.50	26.00
2	2 way through	„	14.50	18.00	23.00	27.00	29.00
3	2 way Angle	„	14.50	18.00	23.00	27.00	29.00
4	3 way Tee	„	16.00	20.00	23.50	29.00	31.00
5	4 way intersection	„	17.50	22.00	25.50	31.00	34.50
6	2 way Branch (U)	„	22.50				
7	3 way Branch (Y)	„	24.00				
8	4 way Branch (H)	„	25.50				

**2.C. Common accessories for PVC conduits**

Sl. No.	Description	Unit	Rate Rs.				
			20 mm	25 mm	32 mm	40 mm	50 mm
1	Fabricated bend (IS 3419)	Each	9.00	14.50	34.00	68.00	99.00
2	PVC coupler	„	2.20	3.90	7.80	12.50	20.00
3	Elbow	„	4.20	6.20			
4	Tee	„	7.00	9.30			
5	Female bush adaptor	„	4.40	5.80	14.00	19.00	32.50
6	Male bush adaptor	„	4.40	5.80			
7	Saddle base with screw	„	4.40	5.70	8.40	9.80	12.00
8	Saddle strap	„	2.10	2.90			
9	Rigid PVC Fan box 20/25 K.O	„	30.00				

**3. Rigid PVC Oval conduit and accessories**

Sl. No.	Description	Unit	Rate Rs.		
			16 mm	20 mm	25 mm
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Rigid PVC Oval conduit	metre	9.50	12.50	18.00
2	Oval conduit Connector	Each	1.40	2.10	2.90
3	Oval to round connector	„	2.10	2.10	3.30
4	Oval Elbow	Each	2.10	3.10	4.70
5	Oval 'Tee'	„	2.50	3.70	5.10
6	Oval Internal	„	2.50	3.70	4.30
7	Oval External	„	2.50	3.70	4.30
8	Oval saddle clip	„	2.00	2.00	2.50
9	Oval 'U' clip	„	2.10	2.30	2.50
10	Oval Saddle base	„	2.70	2.70	2.70

**4. Rigid PVC Trunking (IS 14927 part II) and accessories.**

Sl. No.	Size	Rate/mtr	Rate per Each						
		Trunking	Coupler	Elbow	'Tee'	Internal bend	External bend	Junction linker	4 way inter-section
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
1	20mm	20.00	2.20	2.20	2.90	2.90	2.90	8.60	
2	25mm	26.00	2.30	2.70	3.10	3.10	3.10		4.20
3	32mm	29.50	3.10	3.30	4.60	4.40	4.40		6.20
4	16 x 16mm	27.50	4.00	4.00	4.80	4.80	4.80		
5	20 x 12mm	27.50	3.40	4.00	4.60	4.60	4.60		
6	25 x 12mm	31.50	3.90	4.40	5.90	5.90	5.90		
7	25 x 16mm	32.50	4.50	5.40	5.80	5.80	5.80		
8	38 x 16mm	50.00	5.90	7.50	8.40	7.50	7.50		
9	38 x 25mm	63.50	6.90	9.10	10.00	11.00	11.00		

1	2	3	4	5	6	7	8	9	10
10	38 x 38mm	90.00							
11	50 x 16mm	69.00							
12	50 x 50mm	120.00							
13	75 x 50mm	278.00							
14	75 x 75mm	359.00							

#### 5. Corrugated PVC flexible conduit and accessories.

Sl. No.	Description & unit	Size						
		10 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
1	Corrugated PVC flexible conduit / meter	9.00	9.00	11.00	17.50	25.00	34.50	54.50
2	PVC adppter / each			6.40	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 mtr. in Rs.	price per each in Rs.	
		Pipe	Half round pipe	Snap fit Coupler
1	2	3	4	5
1	50 / 38	83.00	50.00	--
2	63 / 50	99.00	59.00	22.50
3	77 / 63	111.00	66.50	34.00
4	90 / 75	141.00	84.50	42.50
5	110 / 94	204.00	122.00	45.50
6	120 / 102.50	211.00	126.00	50.00
7	125 / 109	249.00	149.00	55.00
8	145 / 123	310.00	186.00	59.50
9	160 / 135	334.00	201.00	68.00
10	175 / 147	380.00	228.00	80.00
11	200 / 174	446.00	268.00	91.50

### 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	2	3	4	5
1	Cable management system with base and lid	m	144.00	360.00
2	Cable divider	„		48.00
3	External angle 90°	Each	64.00	69.50

1	2	3	4	5
4	Flat angle 90°	„	58.50	61.00
5	Internal angle 90°	„	61.50	61.50
6	Internal coupler	„	40.00	32.00
7	Flat cross	„	230.00	240.00
8	End cap	„	37.50	40.00
9	Flanged coupler	„	68.00	89.00
10	Joint cover	„	24.00	42.50
11	Special internal angle 45°	„	121.00	240.00
12	Special external angle 45°	„	121.00	160.00
13	Special flat angle 45°	„	121.00	160.00
14	External Tee	„	120.00	240.00
15	Flat Tee	„	58.50	55.00
16	Internal Tee	„	120.00	240.00
17	Cable retainer	„	21.50	16.00
18	1 to 3 module mounting box	„		60.00
19	4 to 5 module mounting box	„		72.00
20	8 module mounting box	„		108.00
21	10 module mounting box	„		144.00
22	Spacer for box	„		8.00
23	3 / 5 module under box divider	„		8.00
24	Wall plate for internal angle	„	37.50	37.50
25	Mini trunking adapter	„		10.50
26	MCB / RCD housing			160.00
27	Reducer 100 x 50 to 50 x 50mm			95.00

## 2. DLP plastic trunking and accessories.

Sl. No.	Description	Unit	Rate Rs.	
			150 x 50mm	195 x 50mm
1	2	3	4	5
1	Plastic trunking without cover	m	542.00	781.00
2	Flexible cover 40mm width	m	114.00	130.00
3	Flexible cover 65mm width	m	118.00	134.00
4	Flexible cover 85mm width	m	126.00	144.00
5	Flexible cover 130mm width	m	294.00	334.00
6	Flexible cover 180mm width	m		360.00
7	Joint for 40mm width cover	E	57.50	65.50
8	Joint for 65mm width cover	E	54.50	62.50
9	Joint for 85mm width cover	E	77.00	88.00
10	Joint for 130mm width cover	E	91.00	142.00
11	Joint for 180mm width cover	E		131.00
12	Base joint	E	30.50	30.50
13	Clips for 65mm width cover	E	25.50	25.50
14	Clips for 130 mm width cover	E	48.00	48.00
15	Separation partitions	E	78.50	78.50
16	Clip-on partitions	E	99.00	99.00

1	2	3	4	5
17	Aluminium clip-on partition	E	486.00	486.00
18	End caps	E	141.00	158.00
19	Internal angles adjustable from 80° to 100°	E	206.00	206.00
20	Partition junction for internal angle	E	104.00	104.00
21	VDI accessories for internal angles	E	277.00	277.00
22	External angles adjustable from 60° to 120°	E	181.00	181.00
23	Partition junction for external angle	E	181.00	181.00
24	VDI accessories for external angles	E	293.00	293.00
25	Flat angles	E	915.00	1098.00
26	VDI accessories for flat angles	E	346.00	346.00
27	Flat junctions	E	360.00	360.00
28	Partition junctions for flat junctions	E	453.00	453.00
29	VDI accessories for flat junctions	E	435.00	435.00
30	Wall crossing	E	314.00	310.00
31	Capacity change (to 80 x 50 mm)	E	104.00	104.00
32	Capacity change to 195 x 50 mm)	E	158.00	158.00
33	Partition junction	E	158.00	158.00
34	Cable ties base	E	16.00	16.00
35	1 module frame for 40 mm cover	E	62.50	62.50
36	2 module frame for 65 mm cover	E	62.50	62.50
37	3 module frame for 65 mm cover	E	78.50	78.50
38	4 module frame for 65 mm cover	E	94.50	94.50
39	6 module frame for 65 mm cover	E	104.00	104.00
40	8 module frame for 65 mm cover	E	149.00	149.00
41	2 module frame for 85 mm cover	E	65.50	65.50
42	3 module frame for 85 mm cover	E	88.00	88.00
43	4 module frame for 85 mm cover	E	94.50	94.50
44	6 module frame for 85 mm cover	E	125.00	125.00
45	8 module frame for 85 mm cover	E	166.00	166.00
46	Isolating box for 2 / 4 / 6 / 8 module	E	114.00	114.00
47	Isolating box for 3 module	E	130.00	130.00
48	Lexic support - 2 module for 65 mm cover	E	366.00	366.00
49	Lexic support - 3 module for 85 mm cover	E		456.00
50	Lexic support - 6 module for 130 mm cover	E	546.00	
51	Hypra socket support - for 130 mm cover	E	818.00	

### 3. Aluminium Cable Management system.

#### 3.A. Aluminium Uncoated.

Sl. No.	Description	Unit	Rate Rs.	
			101 x 51 mm	101 x 72 mm
1	2	3	4	5
1	Trunking Canal base assembly (including base and lid)	m	941.00	1040
2	Inner right angle bend (including lid)	E	639.00	680
3	Vertical right angle bend (including lid)	E	680.00	720

1	2	3	4	5
4	Outer right angle bend (including lid)	E	680.00	720
5	Flat TEE (including lid)	E	662.00	698
6	Leveling Piece	E	27.00	27
7	End Cap with screws	E	31.50	76.5
8	Cable Divider	m	158.00	176
<b>Common accessory for Aluminium uncoated</b>				
1	Under floor Raceway including lid 134 x 39 mm	m	1261.00	
2	Right angle bend for floor raceway including lid	E	764.00	

### 3.B. Aluminium Anodized.

Sl. No.	Description	Unit	Rate Rs.	
			101 x 51 mm	101 x 72 mm
1	Trunking Canal base assembly (including base and lid)	m	1013.00	1121
2	Inner right angle bend (including lid)	E	684.00	729
3	Vertical right angle bend (including lid)	E	729.00	765
4	Outer right angle bend (including lid)	E	723.00	765
5	Flat TEE (including lid)	E	702.00	747
6	Leveling Piece	E	36.00	40.5
7	End Cap with screws	E	40.50	86
<b>Common accessory for Aluminium Anodized</b>				
1	Under floor Raceway including lid 134 x 39 mm	m	1382.00	
2	Right angle bend for floor raceway including lid	E	830.00	
3	Under floor Junction Box 180 x 180 mm	E	724.00	

### 3.C. Aluminium Powder Coated.

Sl. No.	Description	Unit	Rate Rs.	
			101 x 51 mm	101 x 72 mm
1	Trunking Canal base assembly (including base and lid)	m	1103.00	1229.00
2	Inner right angle bend (including lid)	E	711.00	756.00
3	Vertical right angle bend (including lid)	E	756.00	801.00
4	Outer right angle bend (including lid)	E	747.00	801.00
5	Flat TEE (including lid)	E	738.00	774.00
6	Leveling Piece	E	45.00	45.00
7	End Cap with screws	E	54.00	99.00

**3.D. Common Accessories for Aluminium Trunking (uncoated, Anodized & Powder coated)**

Sl. No.	Description	Unit	Rate Rs.
			101 x 51 mm
1	Joining Piece	E	20.00
2	Earth Clamp	E	20.00
3	Apatula – Lid opening tool	E	132.00
4	1-2 Module Mounting Box	E	91.00
5	2 – 4 Module Mounting Box	E	91.00

**4. DL Pass, Floor boxes and Pop-Up boxes.****4.A. DL Pass, integrated access flooring.**

Sl. No.	Description	Unit	Rate Rs.
1	Standard tile (Base + Deck) 600 x 600 x 80 mm	E	2041.00
2	Special tile for floor service outlet box, 600 x 600 x 80 mm	E	2552.00
3	Sloped Access ramp	E	7033.00
4	DL Pass bottom floor box for 16 module with grid without cover	E	3865.00
5	Steel cover for floor box (for carpet)	E	1526.00
6	Stainless steel cover for floor box	E	2340.00

**4.B. Floor Boxes.**

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Floor box for false floor, 8 module with cover for carpet	E	2578.00
2	Floor box for false floor, 8 module with SS cover for carpet	E	2700.00
3	Floor box for false floor, 16 module with cover for carpet	E	3098.00
4	Floor box for false floor, 16 module with SS cover for carpet	E	3150.00
5	Face plate for mounting 2 Lexic module	E	450.00
6	Floor access unit, circular, aluminium	E	1377.00
7	Batik floor box for concrete floor supplied with protective cover for 8 module	E	688.00
8	8 module frame with steel cover for carpet	E	2408.00
9	8 module frame with SS cover for carpet	E	2520.00
10	Batik floor box for concrete floor supplied with protective cover for 16 module	E	1550.00
11	16 module frame with steel cover for carpet	E	5159.00
12	16 module frame with SS cover for carpet	E	5310.00
13	Adjustment bracket for 8 module batik box	E	688.00
14	Face plate for mounting 2 Lexic module in 8 module frame	E	450.00
15	Face plate for mounting 2 Lexic module in 16 module frame	E	450.00

**4.C. Pop-Up Boxes.**

Sl. No.	Description	Unit	Rate Rs.
1	Pop-up aluminium floor adaptor 3 module	E	1292.00
2	Pop-up aluminium floor adaptor 3 + 3 module	E	1773.00
3	Pop-up brass golden floor adaptor 3 module	E	3094.00
4	Metallic floor box for Pop-up aluminium floor adaptor 3 module	E	794.00
5	Plastic floor box for floor adaptor 3 module	E	135.00
6	Plastic floor box for floor adaptor 3 + 3 module	E	281.00

Note:-The make of cable management system and accessories to be used are – MK India Ltd., Legrand and Clipsal.

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

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	6 A 1 way switch	Each	13.50
2	6 A 2 way switch	„	15.50
3	6 A bell push	„	15.00
4	6 A hanging bed switch 1 way	„	14.50
5	6 A hanging bell push	„	15.50
6	16 A 1 way switch	„	42.50
7	16 A 1 way switch with neon	„	56.00
8	16 A 2 way switch	„	50.50
9	Neon indicator	„	15.00
10	6 A 2 pin socket	„	13.00
11	6 A 2 pin socket suitable for English pin	„	17.50
12	6 A 3 pin socket	„	18.00
13	6 A 5 pin socket	„	19.00
14	6 A 5 pin socket suiting English pin ( round & square) also	„	23.50
15	16 A 3 pin socket	„	41.50
16	6/13 A international socket	„	30.00
17	6/16 A universal socket	„	43.50
18	6 A 3 pin switch socket combined flush type	„	39.50
19	16 A 3 pin switch socket combined flush type	„	68.00
20	6/16 A switch socket combined flush type	„	69.50
21	6/16 A switch socket combined flush type with neon	„	79.50
22	6 A 3 pin plug top	„	21.00
23	16 A 3 pin plug top	„	34.50
24	16 A 3 pin plug top with fuse	„	36.00
25	6 A 3 pin plug top unbreakable (polycarbonate)	„	27.00

1	2	3	4
26	16 A 3 pin plug top unbreakable (polycarbonate)	„	39.50
27	2 Plate ceiling rose	„	14.50
28	3 Plate ceiling rose	„	15.00
29	3 pin telephone socket	„	14.50
30	3 pin telephone top	„	23.50
31	RJ 11 telephone jack (2 lines)	„	36.00
32	RJ 11 telephone jack (4 lines)	„	45.00
33	RJ 11 telephone jack (2 lines) with shutter	„	30.50
34	TV antenna socket – switch size	„	20.50
35	TV antenna socket – socket size	„	23.50
36	Step fan regulator – switch size	„	170.00
37	Step fan regulator – socket size	„	185.00
38	PVC Gang box 1 way	„	6.50
39	PVC Gang box 2 way	„	9.50

### 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	508.00	529.00
2	2 pole + Earth, 250V, Industrial plug socket	„	79.50	95.00
3	2 pole + Earth, 250V, Industrial plug top	„	79.50	88.50

### 2.A. Modular switches and accessories (Group A).

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	6 A SP 1 way switch	Each	36.00
2	6 A SP 2 way switch	„	45.00
3	6 A SP 1 way switch with indicator	„	47.50
4	6 A SP 2 way switch with indicator	„	56.50
5	6 A SP 1 way bell push	„	43.50
6	6 A SP 1 way bell push with indicator	„	60.00
7	16 A SP 1 way bell push	„	62.00
8	16 A SP 1 way bell push with indicator	„	79.00
9	16 A SP 1 way switch	„	52.50
10	16 A SP 2 way switch	„	60.50
11	16 A SP 1 way switch with indicator	„	60.00
12	20 A DP switch with indicator	„	88.00
13	32 A DP switch with indicator	„	93.50
14	6 A to 32 A modular type SP MCB	„	70.50
15	6 A to 32 A modular type DP MCB	„	187.00
16	32 A DP Load break switches ( Isolators)	„	169.00
17	50 A DP Load break switches ( Isolators)	„	185.00

1	2	3	4
18	Heavy duty plug and socket unit for flush mounting comprising of appropriately rated SP MCB, 25 A socket and 25 A plug top with indicator along with mounting plate	„	287.00
19	Heavy duty plug and socket unit for flush mounting comprising of appropriately rated SP MCB, 25 A socket and 25 A plug top with indicator along with mounting plate and plastic mounting box.	„	320.00
20	Single phase Motor starter (16 A with current setting of 0.6 – 1 A for 1/8 HP motor, 0.9 – 1.5 A for 1/4 HP motor, 1.2 – 2 A for 1/3 HP motor, 2.0 -2.5 A for 1/2 HP motor, 3.0 – 5 A for 3/4 HP motor, 4.75 – 7.5 A for 1 TR A/C, 7 – 11 A for 1.5 TR A/C )	„	203.00
21	Single phase Motor starter (20 A with current setting of 11A to 18 A for 2 Ton A/C)	„	212.00
22	Single phase Motor starter (25 A with current setting of 16A to 25 A for 2.5 Ton A/C)	„	230.00
23	A/C Power units flush type with suitably rated MCB and suitably rated motor starter along with 25 A illuminated plug and socket with front plate etc., suitable for 1.5 TR A/C, 2TR A/C or 2.5 TR A/C	„	625.00
24	As above but without MCB	„	415.00
25	A/C Power units box type with suitably rated MCB and suitably rated motor starter along with 25 A illuminated plug and socket with front plate, mounting box etc., for direct fitting to wall suitable for 1.5 TR A/C, 2TR A/C or 2.5 TR A/C	„	692.00
26	Complete unit of 20 A Starter units and 25 A socket with 4 module plate and surface box for 4 HP motor.	„	378.00
27	As above but without MCB	„	473.00
28	6 A charger socket 2 module for mobile charger, lap top	„	39.00
29	6 A Universal socket	„	87.00
30	6 A, 2 / 3 pin socket	„	56.00
31	6 / 16 A combined socket	„	84.50
32	13 A 3 pin socket suitable for flat pin	„	94.50
33	6 / 10 / 13 A international sockets for all pins	„	93.50
34	25 A Universal socket	„	98.00
35	Shaver socket	„	152.00
36	RJ 11 Telephone Jack	„	47.00
37	2 Line RJ 11 Telephone Jack	„	66.50
38	CAT 6 RJ 45 Computer Jack	„	275.00
39	CAT 5e RJ 45 Computer Jack	„	226.00
40	6 A 3 pin plug top	„	20.00
41	6 A 3 pin plug top with indicator	„	27.00
42	16 A 3 pin plug top	„	24.50
43	16 A 3 pin plug top with indicator	„	41.00
44	25 A 3 pin plug top with indicator	„	49.00
45	Buzzer	„	52.00
46	Electronic buzzer - 1M	„	81.00
47	Electronic buzzer - 2M	„	91.00
48	Bulbul Bell 2 module	„	100.00
49	Foot Lamp with 5 module box and lamp holder	„	196.00
50	Foot Lamp with 4 module box and lamp holder	„	157.00

1	2	3	4
51	TV Coaxial Socket outlet – 1M	„	47.00
52	Flex out let / chord out let – 1M	„	35.00
53	16A fuse unit – 1M	„	44.50
54	Neon Indicator – red 1M	„	29.00
55	Neon Indicator – Orange 1M	„	29.00
56	Neon Indicator – Amber 1M	„	25.00
57	Neon Indicator – Green 1M	„	25.50
58	Skirt light with white LED – 3M	„	172.00
59	100 W step regulator- type 1 M	„	203.00
60	100 W step regulator- type 2 M	„	234.00
61	32 A DP mains on off with key tag	„	1741.00
62	Key tag with key ring	„	37.00
63	3 way neutral link for modular boxes	„	42.00
64	Blank plate 1 M	„	10.50
65	Blank plate 2 M	„	21.50
66	Blank plate 4 M	„	17.50

## 2.B. Boxes for modular switches and accessories (Group A).

Sl. No.	Description	Unit	Rate Rs.			
			Moulded Plastic boxes		Metal boxes	
			Recess	Surface	Recess	Surface
1	1 module	Each	14.50	29.50	23.50	
2	2 module	„	14.50	29.50	23.50	
3	3 module	„	18.50	35.00	29.00	
4	4 module	„	23.50	35.00	36.50	
5	5 module	„	32.50	36.00	39.50	
6	6 module	„	36.50	46.50	56.00	
7	8 module	„	51.00	70.00	75.15	
8	9 module	„		81.50	84.00	
9	10 module	„	58.50	58.00	79.50	
10	12 module	„	64.00	80.50	94.50	196.00
11	16 module	„	71.50	73.00	85.00	
12	18 module	„	84.00	88.00	118.00	203.00

## 2.C. White Front plates for Modular Boxes (Group A).

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	1 module	Each	31.50
2	2 module	„	32.50
3	3 module	„	41.00
4	4 module	„	47.50

1	2	3	4
5	5 module	„	48.00
6	6 module	„	69.00
7	8 module	„	89.50
8	9 module	„	85.00
9	10 module	„	84.00
10	12 module	„	110.00
11	16 module	„	98.00
12	18 module	„	139.00

### 3.A. Modular switches and accessories (Group B).

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	6 A SP 1 way switch	Each	61.00
2	6 A SP 2 way switch	„	72.50
3	6 A SP 1 way switch with indicator	„	79.00
4	6 A SP 2 way switch with indicator	„	107.00
5	6 A SP 1 way bell push	„	79.00
6	10 A SP 1 way bell push	„	76.00
7	10 A SP 1 way bell push with indicator	„	81.00
8	6 A SP 1 way bell push with indicator	„	82.50
9	10 A SP 1 way switch 1 module	„	57.00
10	10 A SP 1 way switch 2 module	„	84.00
11	10 A SP 1 way switch with indicator	„	70.00
12	10 A SP 2 way switch 1 module	„	70.50
13	10 A SP 2 way switch 2 module	„	94.50
14	16 A SP 1 way switch	„	90.00
15	16 A SP 2 way switch	„	105.00
16	16 A SP 2 way switch with indicator	„	130.00
17	16 A SP 1 way switch with indicator	„	104.00
18	20 A SP 1 way switch	„	130.00
19	20 A SP 2 way switch	„	213.00
20	25 A SP 1 way switch	„	96.50
21	20 A DP switch	„	131.00
22	25 A DP switch with indicator	„	223.00
23	20 A DP switch with indicator	„	177.00
24	25 A DP modular MCB	„	338.00
25	32 A DP switch with indicator	„	227.00
26	3 module decorative bell push	„	115.00
27	Motor starter switch (6 A to 10 A)	„	228.00
28	Motor starter switch (9 A to 15 A)	„	237.00
29	Motor starter switch (16 A to 25 A)	„	253.00
30	Motor starter switch (16 A)	„	262.00
31	Motor starter switch (20 A)	„	273.00
32	Motor starter switch (25 A)	„	273.00
33	16A Power unit with 4 module plate, 16A starter, 16A socket and 16 A plug top	„	536.00

1	2	3	4
34	20A Power unit with 4 module plate, 20A starter, 20A socket and 20 A plug top	„	536.00
35	25A Power unit with 4 module plate, 25A starter, 25A socket and 25 A plug top	„	536.00
36	6 A charger socket 2 module for mobile charger, lap top	„	79.00
37	6A 3 pin shuttered socket	„	88.00
38	6 A Universal socket	„	93.50
39	6 A, 2 / 3 pin shuttered socket	„	92.50
40	6 / 16 A combined shuttered socket	„	135.00
41	13 A 3 pin shuttered socket suitable for flat pin	„	150.00
42	6 / 10 / 13 A international sockets for all pins	„	132.00
43	10 / 25 A 3 pin Socket	„	140.00
44	20 A 3 pin shuttered socket	„	147.00
45	25 A 3 pin shuttered socket	„	161.00
46	Shaver socket, 110 / 230 V AC with transformer - 4 M	„	886.00
47	RJ 11 Telephone Jack with shutter	„	67.00
48	2 Line RJ 11 Telephone Jack with shutter	„	88.00
49	CAT 6 RJ 45 Computer Jack	„	294.00
50	CAT 5e RJ 45 Computer Jack	„	171.00
51	Twin RJ 11 Telephone Jack	„	74.00
52	RJ 45 Frame	„	64.00
53	6 A 3 pin plug top	„	63.00
54	16 A 3 pin plug top	„	98.00
55	13A 3 pin plug top with fuse	„	104.00
56	25 A 3 pin plug top with indicator	„	104.00
57	Electronic Chime – 2M	„	91.00
58	Buzzer	„	107.00
59	Foot Lamp with 4 module box and lamp holder	„	196.00
60	Foot Light cover 4 module	„	122.00
61	Foot Lamp with 5 module box and lamp holder	„	196.00
62	Foot Lamp with 8 module box and lamp holder	„	266.00
63	Foot Light cover 8 module	„	166.00
64	Down light / foot light with variable shutter regulator -3M	„	211.00
65	TV Coaxial Socket outlet – 1M	„	67.00
66	TV cable / Flex out let – 1M	„	51.00
67	6A fuse unit – 1M	„	81.50
68	16A fuse unit – 1M	„	83.50
69	Neon Indicator – red 1M	„	52.00
70	Neon Indicator – Amber 1M	„	54.50
71	Neon Indicator – Green 1M	„	54.50
72	100 W Step type fan regulator - 2 M	„	306.00
73	Speaker volume control – 2 M	„	253.00
74	Light Control 300W 2 M	„	203.00
75	Light Control 400W 4 M	„	338.00
76	Light Control 1000W 4 M	„	439.00
77	Energy key switch with Tag – 3M	„	328.00
78	Key tag	„	59.00

1	2	3	4
79	Electronic key tag ( card operated)	„	1101.00
80	16A DP key card switch	„	1857.00
81	Secret Key 16 A 1 way – 1M	„	62.50
82	20 A energy key tag switch with time delay – 3M	„	844.00
83	Hotel key fob switch 20A without key fob	„	473.00
84	Key fob for 20 A key fob switch	„	81.50
85	Key fob switch 100VA with 30 second delay	„	1874.00
86	Key fob for 100VA with 30 second delay switch	„	632.00
87	“Do not disturb” indicator lamp 1 + 1 module	„	638.00
88	Internal control unit for “Do not disturb” indicator lamp 1 + 1 module	„	563.00
89	Pre-wired 10M horizontal plate assembled with 3 Intel Sockets controlled by 16A Indicator switch	„	844.00
90	Pre-wired 10M horizontal plate assembled with 3Nos 6 / 16A Sockets controlled by 16A Indicator switch	„	810.00
91	Pre-wired 10M horizontal plate assembled with 4 Nos 6A Sockets controlled by 16A Indicator switch	„	810.00
92	6 A SPN MCB 2 module	„	1835.00
93	10 A SPN MCB 2 module	„	1835.00
94	16 A SPN MCB 2 module	„	1835.00
95	16 A, 30 mA SPN RCBO 2 M	„	3051.00
96	16 A 250 V AC voltage surge protector	„	3051.00
97	Replacement module for voltage surge protector	„	1527.00
98	Blank plate 1 M	„	15.50
99	Blank plate 2 M	„	24.50
100	Blank plate 4 M	„	20.50

### 3.B. Boxes for modular switches and accessories (Group B).

Sl. No.	Description	Unit	Rate Rs.			
			Moulded Plastic boxes		Metal boxes	
			Recess	Surface	Recess	Surface
1	1 module	Each	23.50	45.50	29.00	
2	2 module	„	23.50	45.50	29.00	
3	3 module	„	25.00	51.00	33.50	
4	4 module	„	32.50	65.50	41.00	
5	5 module	„		87.50	41.00	
6	6 module	„	46.00	72.00	64.50	
7	8 module	„	64.00	92.50	81.00	
8	9 module	„	64.00	70.50	96.50	
9	10 module	„		129.00	85.50	
10	12 module	„	81.00	97.00	122.00	196.00
11	16 module	„		94.50	107.00	
12	18 module	„	102.00		140.00	205.00
13	24 module	„			137.00	

**3.C. Front plates for Modular Boxes (Group B).****Column wise details**

1. White / off white.
2. Metallic (Gold)
3. Metallic (Pearl, Chroma, brushed steel)

Sl. No.	Description	Unit	Rate Rs.		
			1	2	3
1	1 module	Each	47.00	237.00	119.00
2	2 module	„	48.00	245.00	126.00
3	3 module	„	55.50	253.00	134.00
4	4 module	„	62.00	275.00	156.00
5	5 module	„	72.50	283.00	163.00
6	6 module	„	86.50		
7	8 module	„	116.00	342.00	230.00
8	9 module	„	154.00		
9	10 module		137.00		
10	12 module	„	151.00		
11	16 module		173.00		
12	18 module	„	195.00		
13	24 module		236.00		

**4. Bell and Bell indicators.**

Sl. No.	Description	Unit	Rate Rs.
1	Buzzer	Each	30.50
2	Call Bell	„	39.00
3	Ding dong bell	„	72.00
4	Musical bell with bird sound	„	98.00
5	Musical bell with multiple tunes	„	142.00
6	DC operated remote controlled electric bell	„	465.00
7	Gong Bell 75 mm	„	418.00
8	„ 100 mm	„	500.00
9	„ 150 mm	„	583.00
10	„ 225 mm	„	913.00
11	„ 300 mm	„	1089.00
12	Bell indicator	Per way	146.00

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

Sl. No.	Description	Unit	Rate Rs.
1	T 8 18 W FTL	Each	38.00
2	T 8 36 W FTL	„	40.00
3	14 W fluorescent tube light (T5) - normal	„	101.00
4	24 W fluorescent tube light (T5) - normal	„	106.00
5	28 W fluorescent tube light (T5) - normal	„	106.00
6	54 W fluorescent tube light (T5) - normal	„	111.00
7	14 W fluorescent tube light (T5) with high lumen output & RoHS compliant	„	167.00
8	24 W fluorescent tube light (T5) with high lumen output & RoHS compliant	„	172.00
9	28 W fluorescent tube light (T5) with high lumen output & RoHS compliant	„	172.00
10	54 W fluorescent tube light (T5) with high lumen output & RoHS compliant		177.00

**2. Non-retrofit CFL.**

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	PL-S 5 W – 2P / 4P	Each	66.00
2	PL-S 7 W – 2P / 4P	„	66.00
3	PL-S 9 W – 2P / 4P	„	66.00
4	PL-S 11 W - 2P / 4P	„	76.00
5	PL-C 10 W – 2P / 4P	„	96.00
6	PL-C 13 W - 2P / 4P	„	101.00
7	PL-C 18 W - 2P / 4P	„	106.00
8	PL-C 26 W – 2P / 4P	„	152.00
9	PL-L 18 W - 4P	„	162.00
10	PL-L 36 W - 4P	„	182.00
11	PL-L 40 W - 4P	„	228.00
12	PL-L 55 W - 4P	„	279.00
13	PL-L 80 W - 4P	„	329.00
14	PL-T 26 W – 2P / 4P	„	355.00
15	PL-T 32 W - 4P	„	380.00
16	PL-T 42 W - 4P	„	405.00
17	PL-T 57 W - 4P	„	431.00

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

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Dwarf size 5 W BC / ES / E 14	Each	111.00
2	Dwarf size 8 W BC / ES / E 14	„	117.00

1	2	3	4
3	Dwarf size 11 W BC / ES / E 14	„	127.00
4	Dwarf size 14 W BC / ES / E 14	„	142.00
5	Normal size 8 W BC / ES	„	117.00
6	Normal size 11 W BC / ES	„	122.00
7	Normal size 14 W BC / ES	„	132.00
8	Normal size 15 W BC / ES	„	132.00
9	Normal size 18 W BC / ES	„	172.00
10	Normal size 20 W BC / ES	„	172.00
11	Normal size 23 W BC / ES	„	203.00
12	Normal size 26 W BC / ES	„	233.00
13	Higher size 35 W BC / ES	„	355.00
14	Higher size 45 W BC / ES	„	527.00
15	Higher size 65 W BC / ES	„	578.00
16	Higher size 85 W BC / ES	„	639.00
17	Spiral 7 W BC / ES	„	167.00
18	Spiral 9 W BC / ES	„	167.00
19	Spiral 11 W BC / ES	„	193.00
20	Spiral 13 W BC / ES	„	200.00
21	Spiral 15 W BC / ES	„	203.00
22	Spiral 20 W BC / ES	„	223.00
23	Spiral 23 W BC / ES	„	243.00
24	Spiral 26 W BC / ES	„	238.00
25	Globe 15 W BC	„	355.00
26	Globe 20 W BC		431.00

#### 4. HID Lamps.

##### 4. A High Pressure SV lamp.

Sl. No.	Description	Unit	Rate Rs.
1	Elliptical Ext. 70 W	Each	319.00
2	Elliptical Int. 70 W	„	319.00
3	Elliptical 150 W	„	481.00
4	Elliptical 250 W	„	542.00
5	Elliptical 400 W	„	608.00
6	Elliptical 1000 W	„	4055.00
7	Tubular 70 W	„	350.00
8	Tubular 150 W	„	522.00
9	Tubular 250 W	„	583.00
10	Tubular 400 W	„	669.00
11	Tubular 1000 W	„	4156.00

**4. B Double ended Metal Halide lamp.**

Sl. No.	Description	Unit	Rate Rs.
1	MHN – TD 70 W	Each	557.00
2	MHN – TD 150 W	„	557.00

**4. C Metal Halide lamp working both with sodium / Metal Halide chokes.**

Sl. No.	Description	Unit	Rate Rs.
1	HPI PLUS BU Elliptical 250 W	Each	1247.00
2	HPI PLUS BU Elliptical 400 W	„	1318.00
3	HPI PLUS BU Elliptical 250 W / 767	„	1338.00
4	HPI PLUS BU Elliptical 400 W / 767	„	1419.00
5	HPI PLUS BU – S 400 W	„	1926.00
6	HPI PLUS BU – P 400 W	„	1926.00
7	HPI PLUS BU – SP 400 W	„	2179.00
8	HPI – T PLUS Tubular 250 W	„	1014.00
9	HPI – T PLUS Tubular 400 W	„	1024.00
10	HPI – T PLUS Tubular 1000 W	„	5747.00
11	HPI – T PLUS Tubular 2000 W	„	8362.00
12	MH T Colour Metal Halide 400 W (R / G / B / V)	„	1825.00

**4. D Ceramic Discharge Metal Halide Lamps with G 12 base.**

Sl. No.	Description	Unit	Rate Rs.
1	Master colour CDM – T 35 W / 830	Each	1292.00
2	Master colour CDM – T 70 W / 830	„	1292.00
3	Master colour CDM – T 70 W / 942	„	1292.00
4	Master colour CDM – T 150 W / 830	„	1419.00
5	Master colour CDM – T 150 W / 942	„	1419.00

**4. E Double ended Ceramic Discharge Metal Halide Lamps.**

Sl. No.	Description	Unit	Rate Rs.
1	Master colour CDM – TC 35 W / 830	Each	1419.00
2	Master colour CDM – TC 70 W / 830	„	1546.00
3	Master colour CDM – TD 70 W / 830	„	1470.00
4	Master colour CDM – TD 70 W / 942	„	1470.00
5	Master colour CDM – TD 150 W / 830	„	1520.00
6	Master colour CDM – TD 150 W / 942	„	1520.00

**4. F Master Colour PAR light.**

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	Master colour PAR 20 35 W / 830 – 10 D	Each	2078.00
2	Master colour PAR 20 35 W / 830 – 30 D	„	2078.00
3	Master colour PAR 30 L 35 W / 830 – 10 D	„	2078.00

1	2	3	4
4	Master colour PAR 30 L 35 W / 830 – 30 D	„	2271.00
5	Master colour PAR 30 L 70 W / 830 – 10 D	„	2271.00
6	Master colour PAR 30 L 70 W / 830 – 30 D	„	2271.00
7	Master colour PAR 30 L 70 W / 830 – 40 D		2271.00

#### 4. G Single ended Ceramic discharge Metal Halide Lamps – tubular threaded.

Sl. No.	Description	Unit	Rate Rs.
1	Master colour CDM – TT 70 W / 830	Each	2271.00
2	Master colour CDM – TT 150 W / 830	„	2271.00
3	Master colour CDM – TT 250 W / 830	„	1419.00

#### 4. H Single ended Ceramic discharge Metal Halide Lamps – Elliptical threaded.

Sl. No.	Description	Unit	Rate Rs.
1	CDM – ET 70 W / 830	Each	2743.00
2	CDM – ET 150 W / 830	„	1977.00
3	White SON Tubular SDW 100 W G12	„	2179.00

#### 4. I CDMR Lamps.

Sl. No.	Description	Unit	Rate Rs.
1	CDMR 111 Lamps 35 W D 10	Each	2078.00
2	CDMR 111 Lamps 35 W D 24	„	2078.00
3	CDMR 111 Lamps 35 W D 45	„	1419.00
4	CDMR 111 Lamps 70 W D 10	„	2027.00
5	CDMR 111 Lamps 70 W D 24	„	2078.00
6	CDMR 111 Lamps 70 W D 40	„	2494.00

### 5. Halogen Lamps.

#### 6.A. Linear Halogen lamps.

Sl. No.	Description	Unit	Rate Rs.
1	100 W	Each	55.00
2	150 W	„	55.00
3	300 W	„	55.00
4	500 W	„	51.00
5	1000 W	„	67.00

#### 6.B. Dichroic lamps.

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	12 V 20 W with out glass cover	Each	61.00
2	12 V 35 W with out glass cover	„	81.00

1	2	3	4
3	12 V 50 W with out glass cover	„	41.00
4	12 V 20 W with glass cover	„	61.00
5	12 V 35 W with glass cover	„	61.00
6	12 V 50 W with glass cover	„	46.00

### 6.C. Halogen Capsule light.

Sl. No.	Description	Unit	Rate Rs.
1	12 V 5 W	Each	101.00
2	12 V 20 W	„	41.00
3	12 V 50 W	„	41.00

## PART VIII

### LIGHT FITTINGS AND ACCESSORIES

#### 1. Light Fittings.

##### 1.A. Aviation Lamps.

Sl. No.	Description	Unit	Rate Rs.
1	Single unit aviation obstruction light with yellow painted die-cast aluminium alloy housing, built-in 75VA step up transformer, heat resistant clear thick glass (IP 54) and neon spiral.	Each	5018.00
2	Twin unit aviation obstruction light with yellow painted die-cast aluminium alloy housing, red coloured polycarbonate dome and BC / EC lamp holders suitable for GLS lamp.	„	3000.00

##### 1.B. Lamp Holders.

Sl. No.	Description	Unit	Rate Rs.
1	Skirt type straight batten holder	Each	17.00
2	Skirt type angle batten holder	„	17.00
3	Pendent holder	„	15.50
4	Angle batten holder with advance international interlock configuration	„	29.00
5	Straight batten holder with advance international interlock configuration	„	29.00
6	Porcelain straight batten Holder	„	14.00

##### 1.C. Lamp Shades.

Sl. No.	Description	Unit	Rate Rs.			
			150 mm	200 mm	250 mm	300 mm
1	2	3	4	5	6	7
1	Long ham Shade	Each		38.50		
2	E.I. Conical Shade	„	20.00	28.60	33.00	
3	Polished Aluminium shade	„		49.50	60.50	

1	2	3	4		5		6		7	
5	Plastic sill shade	„			15.50					
6	Glass dome	„	Clear	Milky	Clear	Milky	Clear	Milky	Clear	Milky
			44	44	88.00	99.00	170.00	198.00	358.00	418.00
7	Cut glass shade	„	30.00							
8	Bell shaped glass shade	„	36.50							

## 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	1021.00
b	Suitable for twin 28 W T5 lamps	E	1443.00
2	Fluorescent tube light fitting with lamp holder, electronic ballast suitable for continuous operation with THD <10% 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		704.00
b	Suitable for twin 28 W T5 lamps		1021.00
3	Fluorescent tube light fitting <b>with bi-directional reflector</b> 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	E	1197.00
b	Suitable for twin 28 W T5 lamps	E	1654.00
4	Fluorescent tube light fitting <b>with bi-directional reflector</b> complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, 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	E	950.00
b	Suitable for twin 28 W T5 lamps	E	1232.00
	<b>Accessories</b>		
1	Bi- pin tube holder	„	7.40
2	APF electronic control gear for 1 x 28W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant		895.00
3	APF electronic control gear for 2 x 28W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant		982.00
4	APF electronic control gear for 4 x 14/ 4x24 W T5 lamp with THD < 10%, power factor > 0.98 & RoHS compliant		1261.00
5	Holder adaptor kit for conversion of single T12/ T8 fitting to suit T5 lamp		54.00
6	Holder adaptor kit for conversion of double T12/ T8 fitting to suit T5 lamp		108.00

### 3. Surface mounting type decorative luminaries

Sl. No.	Description	Unit	Rate Rs.
1	Surface mounting <i>decorative fluorescent tube light fitting (Cat-2)</i> 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	1577.00
b	Suitable for twin 28 W T5 lamps	„E	1809.00
c	Suitable for twin 28 W T5 lamps with housing of high technology form	E	3238.00
2	Surface mounting <i>decorative fluorescent tube light fitting (Cat-2)</i> complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for single 28 W T5 lamps	E	1330.00
b	Suitable for twin 28 W T5 lamps	E	2091.00
c	Suitable for twin 28 W T5 lamps with housing of high technology form	E	2816.00

### 4. Recessed mounting type decorative luminaries

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Recess mounting <i>decorative fluorescent tube light fitting (Cat-2)</i> 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	3400.00
b	Suitable for 4 Nos 14 W T5 lamps	E	3907.00
2	Recess mounting <i>decorative fluorescent tube light fitting (Cat-2)</i> complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for twin 28 T5 W lamps	E	2978.00
b	Suitable for 4 Nos 14 W T5 lamps	E	3344.00
	Recess mounting decorative <i>direct - indirect fluorescent tube light fitting</i> 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	3801.00
	Recess mounting decorative <i>direct - indirect fluorescent tube light fitting</i> complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, duly wired up for use on 230 V AC supply without fluorescent tubes.		
	Suitable for 4 Nos 14 W T5 lamps	E	3238.00

### 5. Street light fittings for fluorescent lamps

Sl. No.	Description	Unit	Rate Rs.
			Group A
1	Fluorescent <i>street light fitting</i> 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	1302.00
b	Suitable for twin 28 T5 W lamps	E	1725.00
c	Suitable for 4 Nos 14 W T5 lamps	E	5350.00
d	Suitable for 4 Nos 24 W T5 lamps	E	5350.00
2	Fluorescent <i>street light fitting</i> with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for single 28 W T5 lamp	E	1056.00
b	Suitable for twin 28 T5 W lamps	E	1302.00
c	Suitable for 4 Nos 14 W T5 lamps	E	4787.00
d	Suitable for 4 Nos 24 W T5 lamps	E	4787.00
3	Fluorescent <i>street light fitting</i> with FRP 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 4 Nos 14 W T5 lamps	E	5420.00
b	Suitable for 4 Nos 24 W T5 lamps	E	5596.00
4	Fluorescent <i>street light fitting</i> with FRP housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with lamp holder, electronic ballast suitable for continuous operation with THD <10%, duly wired up for use on 230 V AC supply without fluorescent tubes.		
a	Suitable for 4 Nos 14 W T5 lamps	E	4857.00
b	Suitable for 4 Nos 24 W T5 lamps	E	5103.00

### 6. Street light fittings with CFL / HID lamps

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 65 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	70 W SV lamp		2139.00
b	150 W SV lamp		3071.00
c	250 W SV lamp		3767.00
d	400 W SV lamp		4612.00
2	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 66 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	70 W SV lamp		3210.00

1	2	3	4
b	150 W SV lamp		3649.00
c	250 W SV lamp		5447.00
d	400 W SV lamp		6724.00
3	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 65 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	70 W metal halide lamp		2193.00
b	150 W metal halide lamp		3541.00
c	250 W metal halide lamp		3294.00
d	400 W metal halide lamp		5298.00
4	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 66 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	250 W metal halide lamp		6960.00
b	400 W metal halide lamp		6785.00
5	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 65 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	70 W CDMT lamp		2676.00
b	150 W CDMT lamp		3541.00
c	250 W CDMT lamp		3784.00
6	Single piece integral luminaire suitable for road way installation with die-cast aluminium housing with top opening in powder coated finish with POT optics reflector, toughened glass cover (IP 66 protection), control gear & lamp holder suitable for the following type of lamps pre-wired up to the terminal block etc.		
a	150 W CDMT lamp		4190.00
b	250 W CDMT lamp		7704.00

### 7. Flood light fittings

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	<b>Integral halogen flood light luminaire</b> with powder coated <b>die cast aluminium</b> housing, heat resistant toughened clear glass cover, lamp holders, aluminium reflector <b>and the type of lamps</b>		
a	500W halogen lamp.	E	575.00
b	1000W halogen lamp.	E	1108.00
2	<b>Integral flood light luminaire</b> rectangular shape with powder coated <b>die cast aluminium</b> housing, symmetrical / asymmetrical light distribution, <b>control gear</b> , aluminium reflector, heat resistant toughened clear glass cover, <b>IP 65 protection</b> , lamp holders suitable for <b>the following type of lamps</b> prewired up to terminal block, etc.		
a	150 W SV lamp	E	3687.00
b	250W SV lamp	E	5323.00
c	400 W SV lamp	E	5771.00
d	150W MH lamp	E	3719.00

1	2	3	4
e	250W MH lamp	E	5195.00
f	400W MH lamp	E	5406.00
3	<b>Integral flood light luminaire</b> rectangular shape with <b>die cast aluminium</b> housing, <b>control gear, rectangular / parabolic reflector</b> , heat resistant toughened glass cover, <b>IP 65 protection</b> , lamp holders suitable for <b>70W CDM-TD lamp</b> prewired up to terminal block, etc.	E	2748.00
4	<b>Non-integral flood light luminaire</b> rectangular shape with powder coated <b>die cast aluminium</b> housing, <b>separate control gear box, scientifically designed face head reflector</b> , heat resistant toughened clear glass cover, <b>IP 65 protection</b> , lamp holders suitable for the following type of lamps prewired up to terminal block, etc.		
a	250W SV lamp	E	11850.00
b	400 W SV lamp	E	13266.00
c	1000 W SV lamp	E	19641.00
d	Twin 250W MH lamp	E	12080.00
e	Twin 400W MH lamp	E	13644.00
f	Single 10000W MH lamp	E	19815.00

#### 8. Accessories for CFL, Dichroic and HID light fittings

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
<b>A</b>	<b>Lamp holders</b>		
1	G23 / 2G7 for PL 5 / 7 / 9 / 11W 2 pin / 4pin CFL	E	8.50
2	G24d1 / G24d2 for PL 13 / 18W CFL	E	11.50
3	2G11 for PLL 18 / 36 W CFL	E	19.00
4	MR16 Halogen holder	E	7.50
5	70 / 500W RX7s holder with frame	E	45.00
6	150 / 1000W RX7s holder with frame	E	51.00
7	RX7s Holder for MH lamp only	E	31.00
8	G-12 holder for Metal Halide	E	85.00
<b>B</b>	<b>Electronic ballasts</b>		
6	Electronic choke for 9W / 10 / 11 / 13 W CFL	E	237.00
7	Electronic choke for 18W CFL	E	242.00
8	Electronic choke for 24W CFL	E	361.00
9	Electronic choke for 12V 1 x 50W, 12 V 1 x 35W Dichroic	E	257.00
10	Electronic choke for 12V 2 x 20W Dichroic	E	236.00
<b>C</b>	<b>Choke for HID lamps</b>		
1	Copper Ballast 80 W MV Lamp	..	629.00
2	Copper Ballast 125 W MV Lamp	..	704.00
3	Copper Ballast 250 W MV Lamp	..	1094.00
4	Copper Ballast 400 W MV Lamp	..	1522.00
5	Copper Ballast 1000 W MV Lamp	..	3240.00
6	Copper Ballast 70 W Sodium / MH	..	725.00
7	Copper Ballast 100 W Sodium	..	800.00
8	Copper Ballast 150 W Sodium / MH	..	1041.00
9	Copper Ballast 250 W Sodium / MH	..	1401.00
10	Copper Ballast 400 W Sodium / MH	..	1894.00
11	Copper Ballast 1000 W Sodium	..	3665.00
12	Copper Ballast 35 W CDMR	..	719.00

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
13	Copper Ballast 70 W Sodium / MH / CDMR	„	921.00
14	Copper Ballast 150 W Sodium / MH / CDMR	„	1164.00
15	Copper Ballast 250 W Sodium / MH / CDMR	„	1499.00
16	Electronic Ballast for 20 W MH / CDMR	„	3443.00
17	Electronic Ballast for 35 W MH / CDMR	„	2835.00
18	Electronic Ballast for 70 W MH / CDMR	„	2835.00
<b>D</b>	<b>Electronic Igniter</b>		
1	Electronic Igniter for 70 / 150 W Sodium / MH	„	233.00
2	Electronic Igniter for 250 / 400 W Sodium	„	223.00
3	Electronic Igniter for 1000 W Sodium / 1800 W MH	„	942.00
4	Electronic Igniter for 250 / 400 W MV	„	476.00
5	Electronic Igniter for 1000 / 2000 W MV	„	476.00
6	Electronic Igniter for 26 / 35 / 36 / 55 W Low pressure Sodium	„	942.00
<b>E</b>	<b>Capacitors for HID lamps</b>		
1	6.5 mfd 440 V	„	51.00
2	5 mfd 250 V	„	61.00
3	4 mfd 250 V	„	96.00
4	8 mfd 250 V	„	132.00
5	10 mfd 250 V	„	162.00
6	12 mfd 250 V	„	106.00
7	15 mfd 250 V	„	203.00
8	20 mfd 250 V	„	276.00
9	33 mfd 250 V	„	446.00
10	42 mfd 250 V	„	496.00

## PART IX

### FANS AND ACCESSORIES

(For details of grouping under this part, refer annexure III)

#### 1. Ceiling fans, wall fans and exhaust fans.

Sl. No.	Description	Unit	Rate Rs.	
			<b>Group A</b>	<b>Group B</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>A</b>	Ceiling fan, complete with 300mm down rod, canopies, shackles and blades and resistance type regulator working on 230/240V single phase A/C			
1	900 mm sweep	E	1019.00	1309.00
2	1050 mm sweep	E	1022.00	
3	1200 mm sweep	E	1028.00	1347.00
4	1200 mm sweep – 5 star rated	E		1480.00
4	1400 mm sweep	E	1101.00	1446.00
5	Ball bearing	E	105.00	
6	Bush bearing	E	47.00	
7	Rubber shackle	E	5.50	
8	Split pin / cotter pin	E	2.50	
<b>B</b>	Wall Mounting fan			
1	300 mm sweep	E	1416.00	
2	400 mm sweep	E	1571.00	

1	2	3	4	5
<b>C</b>	Light Duty Exhaust fan in plastic body with self opening lowers working on 230V single phase A/C			
1	150 mm sweep	E	943.00	
2	200 mm sweep	E	1040.00	
3	250 mm sweep	E	1091.00	
<b>D</b>	Light Duty Exhaust fan in metal frame working on 230 V A/C		<b>Group A</b>	<b>Group B</b>
1	225 mm sweep	E	908.00	1167.00
2	300 / 305 mm sweep	E	970.00	1262.00
<b>E</b>	Heavy Duty Exhaust fan working on 230 V A/C	E	<b>900 rpm</b>	<b>1400 rpm</b>
1	305 mm sweep	E	1980.00	1980.00
2	380 mm sweep	E	2388.00	2426.00
3	450 mm sweep	E	2986.00	3303.00

## 2. Capacitors for fans & motors.

Sl. No.	Capacitor value in mfd.	Unit	Rate Rs.	Sl. No.	Capacitor value in mfd.	Unit	Rate Rs.
1	1.00	Each	20.00	11	5.00	Each	71.00
2	1.50	„	24.00	12	6.00	„	86.00
3	1.80	„	24.00	13	8.00	„	102.00
4	2.00	„	24.00	14	10.00	„	105.00
5	2.25	„	27.00	15	12.50	„	116.00
6	2.50	„	29.00	16	15.00	„	139.00
7	3.00	„	40.00	17	20.00	„	150.00
8	3.15	„	40.00	18	25.00	„	173.00
9	3.80	„	50.00	19	30.00	„	185.00
10	4.00	„	56.00	20	36.00	„	208.00

## 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	158.00
2	DP Enclosure	„	162.00
3	TP Enclosure	„	180.00
4	FP Enclosure	„	185.00

**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	
			IP 42 / 43	IP 54
1	4 way	Each	617.00	2104.00
2	6 way	„	716.00	2400.00
3	8 way	„	833.00	2474.00
4	10 way	„	1081.00	2768.00
5	12 way	„	1104.00	2854.00
6.	14 way	“	1352.00	3068.00
7.	16 way	„	1370.00	3162.00

**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	
			(IP 42 / 43)	(IP 54)
1	4 way (8 + 12)	Each	1605.00	4867.00
2	6 way (8 + 18)	„	2019.00	5857.00
3	8 way (8 + 24)	„	2513.00	6406.00
4	12 way (8 + 36)	„	3463.00	8952.00

**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		IP 54	
			with provision for fixing isolator as incomer - without isolator	with provision for fixing MCCB as incomer - without MCCB	with provision for FP isolator/MCB/RCCB/RCBO as incomer & SP/TP MCBs as outgoing	with provision for fixing 125 A MCCB as incomer - without MCCB
1	4 way (8 + 12)	Each	3609.00	4550.00	6926.00	7971.00
2	6 way (8 + 18)	„	4550.00	4956.00	7916.00	8916.00
3	8 way (8 + 24)	„	4614.00	5325.00	8406.00	9666.00
4	12 way (8 + 36)	„	5709.00	6190.00	11200.00	12866.00

**5.TPN double cover Vertical DBs with provision for fixing 250 A MCCB as incomer - without MCCB**

Sl.No	Description	Unit	Rate Rs	
			(IP 42 / 43)	(IP 54)
1	4 way	Each	7951.00	11242.00
2	6 way	..	8644.00	12244.00
3	8 way	..	9358.00	12929.00
4	12 way	..	9773.00	14868.00

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

Sl.No	Description - No. of outgoing	Unit	Rate Rs			
			With provision for fixing TP MCCB up to 250 A as incomer & SP / TP MCCBs as outgoing	With provision for fixing TP MCCB up to 400 A as incomer & SP / TP MCCBs as outgoing	With provision for fixing FP MCCB up to 250 A as incomer & SP / FP MCCBs as outgoing	With provision for fixing FP MCCB up to 400 A as incomer & SP / FP MCCBs as outgoing
1	2	Each	20009.00	24781.00	21925.00	27258.00
2	4	..	24777.00	29455.00	27254.00	32400.00
3	6	..	29254.00	33914.00	32180.00	37307.00
4	8	..	31283.00	35957.00	34410.00	39551.00
5	12	..	39406.00	44164.00	50479.00	55606.00
6.	16	..	45889.00	50549.00		

**7.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	9133.00	10049.00
2	4	..	10605.00	11666.00
3	6	..	12199.00	13419.00
4	8	..	12199.00	13419.00
5	12	..	14017.00	15419.00
6	16	..	16494.00	
B	Bare meter module with Provision for Digital Ammeter, voltmeter with selector switch	..	3304.00	3304.00
C	MCB module	..	3562.00	3562.00
D	Add-on module	..	3304.00	3304.00

## 8. MCB and Isolators

### 8. 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		
			B curve	C curve	D Curve	B curve	C curve	D Curve
1	0.5	E		194.00	220.00		531.00	586.00
2	1	E		194.00	220.00		531.00	586.00
3	1.6	E		194.00	220.00		531.00	586.00
4	2	E		194.00	220.00		531.00	586.00
5	3	E		194.00	220.00		531.00	586.00
6	4	E		194.00	220.00		531.00	586.00
7	5	E		194.00	220.00		531.00	586.00
8	6	E	123.00	137.00	189.00	392.00	430.00	468.00
9	10	E	123.00	137.00	189.00	392.00	430.00	468.00
10	16	E	123.00	137.00	189.00	392.00	430.00	468.00
11	20	E	123.00	137.00	189.00	392.00	430.00	468.00
12	25	E	123.00	137.00	189.00	392.00	430.00	468.00
13	32	E	123.00	137.00	189.00	392.00	430.00	468.00
14	40	E	261.00	273.00	324.00	535.00	573.00	689.00
15	50	E	315.00	325.00	343.00	600.00	686.00	744.00
16	63	E	315.00	325.00	343.00	600.00	686.00	744.00
17	80	E		1318.00			2559.00	
18	100	E		1513.00			3066.00	
19	125	E		1702.00			3370.00	

### 8. 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		
			B curve	C curve	D curve	B curve	C curve	D curve
1	0.5	E		715.00	827.00		1048.00	1134.00
2	1	E		715.00	827.00		1048.00	1134.00
3	1.6	E		715.00	827.00		1048.00	1134.00
4	2	E		715.00	827.00		1048.00	1134.00
5	3	E		715.00	827.00		1048.00	1134.00
6	4	E		715.00	827.00		1048.00	1134.00
7	5	E		715.00	827.00		1048.00	1134.00
8	6	E	556.00	633.00	719.00	819.00	933.00	953.00
9	10	E	556.00	633.00	719.00	819.00	933.00	953.00
10	16	E	556.00	633.00	719.00	819.00	933.00	953.00
11	20	E	556.00	633.00	719.00	819.00	933.00	953.00
12	25	E	556.00	633.00	719.00	819.00	933.00	953.00
13	32	E	556.00	633.00	719.00	819.00	933.00	953.00
14	40	E	768.00	863.00	999.00	1048.00	1154.00	1335.00
15	50	E	886.00	1020.00	1115.00	1186.00	1298.00	1407.00
16	63	E	886.00	1020.00	1115.00	1186.00	1298.00	1407.00
17	80	E		3696.00			5075.00	
18	100	E		4717.00			6804.00	
19	125	E		5345.00			7697.00	

**9. Mini break isolators**

Sl.No	Current rating A	Unit	Rate Rs		
			Two Pole	Three Pole	Four Pole
1	25	E	244.00	416.00	498.00
2	32	E	263.00	440.00	498.00
3	40	E	263.00	483.00	560.00
4	63	E	330.00	550.00	617.00
5	80	E	431.00	632.00	728.00
6	100	E	448.00	684.00	758.00
7	125	E	462.00	732.00	820.00

**10. Two Pole RCBO (earth leakage, over load & short circuit protection)**

Sl.No	Current rating A	Unit	Rate Rs					
			30 mA		100 mA		300 mA	
			2 Module	4 Module	2 Module	4 Module	2 Module	4 Module
1	6	E	1901.00	1919.00	1901.00	2230.00	1901.00	--
2	10	E	1901.00	1901.00	1901.00	2209.00	1901.00	--
3	16	E	1901.00	1874.00	1901.00	2177.00	1901.00	2198.00
4	20	E	1901.00	--	1901.00	--	1901.00	--
5	25	E	1901.00	1874.00	1901.00	2177.00	1901.00	2198.00
6	32	E	1901.00	1986.00	1901.00	2177.00	1901.00	2119.00
7	40	E	2281.00	2307.00	2281.00	2348.00	2281.00	2372.00
8	63	E	--	2658.00	--	2699.00	--	2731.00

**11. Four Pole RCBO (earth leakage, over load & short circuit protection)**

Sl.No	Current rating A	Unit	Rate Rs					
			30 mA		100 mA		300 mA	
			4 Module	7/8 Module	4 Module	7/8 Module	4 Module	7/8 Module
1	6	E	2315.00	--	2315.00	--	2315.00	--
2	10	E	2315.00	--	2315.00	--	2315.00	--
3	16	E	2315.00	2424.00	2315.00	2711.00	2315.00	2764.00
4	20	E	2315.00	--	2315.00	--	2315.00	--
5	25	E	2315.00	2511.00	2315.00	2659.00	2315.00	2650.00
6	32	E	2315.00	2437.00	2315.00	2572.00	2315.00	2601.00
7	40	E	2490.00	2470.00	2490.00	2625.00	2490.00	2650.00
8	63	E	--	2944.00	--	3025.00	--	3050.00

**12. Double pole RCBO (Hpi earth leakage, over load & short circuit protection) 30mA  
(Enhanced immunity to unwanted tripping in environments with disturbances.)**

**Eg: DG sets, computers, printers, thyristors etc.**

Sl. No.	Rating	Unit	Rate Rs.
			Double pole RCBO 2 module
			30 mA
1	25 A	Each	4490.00
2	32 A	„	4721.00
3	40 A	„	5573.00

**13. 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	1468.00	1884.00	1462.00	1858.00	1508.00	1819.00
2	20	E	--	--	--	--	1508.00	--
3	25	E	1468.00	1884.00	1462.00	1858.00	1508.00	1819.00
4	32	E	1553.00	--	1539.00	--	1539.00	--
5	40	E	1553.00	1916.00	1539.00	1858.00	1539.00	1929.00
6	63	E	1922.00	2204.00	1996.00	2133.00	1996.00	2107.00
7	80	E	3370.00	3725.00	3446.00	3797.00	3446.00	3797.00
8	100	E	3446.00	3894.00	3446.00	3894.00	3446.00	3894.00
9	125	E	5537.00	5951.00	5537.00	5951.00	5537.00	5951.00

**14. 30 mA RCCB (Hpi earth leakage protection)****(Enhanced immunity to unwanted tripping in environments with disturbances.)****Eg: DG sets, computers, printers, thyristors etc.**

Sl.No	Current rating A	Unit	Rate Rs	
			2 Pole	4 pole
1	25	E	3362.00	3722.00
2	40	E	3524.00	3859.00
3	63	E	3613.00	3961.00

**15. Common Accessories for MCBs / Isolators / RCDs**

Sl. No.	Description	Unit	Rate Rs.
1	Auxiliary change over switch 6A, 250 V, AC 1/2 M	Each	457.00
2	Fault signaling change over switch 6A, 250 V, AC 1/2 M	„	539.00
3	Auxiliary change over switch which can be modified to a fault signaling switch 6A, 250 V, AC 1/2 M	„	867.00
4	Auxiliary change over switch + fault signaling switch which can be modified to 2 auxiliary change over switches 1 M	„	1498.00
5	Shunt trip 12 to 48 V AC / DC 1 Module	„	1254.00
6	Shunt trip 110 to 415 V AC & 110 to 125 V DC 1 Module	„	1254.00
7	Remote Control for DP / TP / FP MCBs. Auxiliary change over and fault signaling change over incorporated. 230 V AC 3 M	„	13631.00
8	Minimum voltage trips Time delay adjustable from 0 to 300 ms 24 V DC 1 M	„	1086.00
9	Minimum voltage trips Time delay adjustable from 0 to 300 ms 48 V DC 1 M	„	1086.00
10	Minimum voltage trips Time delay adjustable from 0 to 300 ms 230 V AC 1 M	„	1086.00

**16. Change Over switches suitable for mounting on MCB DB**

Sl.No	Description	Unit	Rate
1	20 A Single pole 2 way 250 V AC,	Each	714.00
2	20 A Double pole 2 way 400 V AC,	„	1411.00
3	20 A Double pole 2 way with centre OFF 400 V AC	„	1491.00

**17. Power Contactors suitable for mounting on MCB DB**

Sl. No.	Description	Unit	Rate Rs.
1	Nominal rating 20 A - 2 NO - 2 pole	Each	938.00
2	Nominal rating 20 A - 2 NC - 2 pole	„	938.00
3	Nominal rating 40 A - 2 NO - 2 pole	„	1647.00
4	Nominal rating 40 A - 3 NO - 3 pole	„	2703.00
5	Nominal rating 63 A - 4 NO - 4 pole	„	3328.00
6	2 A Auxiliary change over switch 1 NO + 1 NC	„	1330.00

**18. Ammeters suitable for mounting on MCB DB**

Sl. No.	Description	Unit	Rate Rs.
1	Direct connection to AC / DC (0 to 30 A) 4 M	Each	2593.00
2	Connected using a - / 5 A CT. To be fitted with appropriate dia.- 4M	„	2593.00
3	Measuring dial for ammeters.	„	152.00

**19. CT s for Ammeter suitable for mounting on MCB DB**

Sl. No.	CT Ratio	Unit	Rate Rs.
1	50 / 5 Precision in % - 3, Power in VA - 2	Each	1183.00
2	100 / 5 Precision in % - 1, Power in VA - 2	„	1580.00
3	200 / 5 Precision in % - 1, Power in VA - 4	„	1634.00
4	300 / 5 Precision in % - 1, Power in VA - 8	„	1634.00
5	400 / 5 Precision in % - 1, Power in VA - 12	„	1639.00
6	600 / 5 Precision in % - 1, Power in VA - 15	„	1639.00
7	800 / 5 Precision in % - 1, Power in VA - 12	„	2445.00
8	1000 / 5 Precision in % - 1, Power in VA - 12	„	2766.00
9	1200 / 5 Precision in % - 1, Power in VA - 15	„	3227.00

**20. Volt meters and Selector switches suitable for mounting on MCB DB**

Sl. No.	Description	Unit	Rate Rs.
1	0 to 500 V AC / DC - 4 M analogue type	Each	2724.00
2	1 to 500 V / 0 to 1200 A AC - 4 M Digital Ammeter / Volt meter	„	6910.00
3	4 position Ammeter Selector switch - 3M	„	2847.00
4	4 position Volt meter Selector switch - 3M	„	2610.00
5	7 position Volt meter Selector switch - 3M	„	2754.00

**21. MPCBs (Protection against overload and short circuit to 3 phase motors )**

Sl.No	Rating A	Recommended motor rating at 415 V, 50 Hz (KW) - AC3 duty	Recommended motor rating at 415 V, 50 Hz (HP)	Thermal release range	Unit	Rate Rs.
1	2	3	4	5	6	7
1	0.16	0.02		0.10 - 0.16	E	2298.00
2	0.25	0.06		0.16 - 0.25	E	2298.00
3	0.40	0.09		0.25 - 0.40	E	2298.00

1	2	3	4	5	6	7
4	0.63	0.12		0.40 - 0.63	E	2343.00
5	1.00	0.25	0.50	0.63 - 1.00	E	2370.00
6	1.60	0.55	0.75	1.00 - 1.60	E	2613.00
7	2.50	0.75	1.00	1.60 - 2.50	E	2613.00
8	4.00	1.50	2.00	2.50 - 4.00	E	2613.00
9	6.30	2.20	3.00	4.00 - 6.30	E	2613.00
10	10.00	4.00	5.00	6.30 - 10.00	E	2712.00
11	16.00	7.50	10.00	10.00 - 16.00	E	2973.00
12	20.00	9.30	12.50	16.00 - 20.00	E	2973.00
13	25.00	11.00	15.00	20.00 - 25.00	E	3063.00

## 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	912.00	1665.00	904.00	1510.00
2	40	E	938.00	1734.00	985.00	1577.00
3	63	E	1323.00	1932.00	1167.00	1758.00
4	80	E	1693.00	2038.00	1734.00	2326.00
5	100	E	2767.00	3027.00	2248.00	3254.00
6	125	E	3193.00	3429.00	2984.00	3622.00
7	160	E	3722.00	4234.00	3526.00	4316.00
8	200	E	4845.00	4750.00	3887.00	5156.00
9	250	E	5583.00	5761.00	4849.00	6528.00
10	315	E	6827.00	6681.00	5921.00	7367.00
11	400	E	9249.00	8597.00	8219.00	9486.00
12	630	E	12336.00	10884.00	9413.00	11286.00

#### 1.B. Auxiliary contacts for Switch Disconnecter

Sl. No.	SDF Rating	contact configuration	Unit	Rate Rs.
1	16 - 125 A	1 NC	Each	186.00
2	32 - 160 A	1 NO	„	186.00
3	160 A	1 NC	„	372.00
4	160 A	1 NO	„	372.00

## 2. Switch Disconnecter Fuse Unit and accessories.

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

Sl.No	Rating A	Unit	Rate Rs			
			In open execution		In sheet steel enclosure	
			DIN Type	BS Type	DIN Type	BS Type
1	32	E	1031.00	1096.00	2180.00	1788.00
2	63	E	1488.00	1542.00	2726.00	2207.00
3	80	E	3306.00	1910.00	3802.00	-
4	100	E	3306.00	2991.00	4388.00	4036.00
5	125	E	3920.00	3825.00	5015.00	4487.00
6	160	E	4525.00	4447.00	6199.00	6037.00
7	200	E	4987.00	4951.00	6559.00	6352.00
8	250	E	6312.00	6127.00	8037.00	7412.00
9	315	E	7988.00	7794.00	9551.00	8920.00
10	400	E	9684.00	9538.00	11082.00	10887.00
11	500	E	14232.00	10168.00	15240.00	--
12	630	E	15238.00	15227.00	17119.00	17635.00

### 2. B. 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 Type	BS Type	DIN Type	BS Type
1	32	E	1532.00	1554.00	2408.00	2388.00
2	63	E	2262.00	1892.00	2838.00	2838.00
3	100	E	4036.00	3721.00	5181.00	4730.00
4	125	E	4578.00	4290.00	5376.00	5376.00
5	160	E	5857.00	5685.00	6967.00	6876.00
6	200	E	6397.00	6037.00	7704.00	7704.00
7	250	E	7208.00	6618.00	8239.00	8239.00
8	315	E	8952.00	8772.00	11431.00	10800.00
9	400	E	10085.00	10265.00	11526.00	11886.00
10	630	E	16488.00	17209.00	19209.00	20291.00

### 2.C. Auxiliary contacts for TPN Switch disconnecter fuse unit.

Sl. No.	SDF Rating	Unit	Rate Rs
1	32 / 63 A	Each	253.00
2	100 / 125 / 160A	„	244.00
3	200 / 250 A	„	291.00
4	315 / 400 / 630 / 800 A	„	286.00

### 2. D. Auxiliary contacts for 4 Pole Switch disconnecter fuse unit.

Sl. No.	SDF Rating	Configuration	Unit	Rate Rs
1	32 – 160 A	1 NO + 1 NC	Each	264.00
2	32 – 160 A	2 NO + 2 NC	„	529.00
3	200 – 800 A	1 NO + 1 NC	„	481.00
4	200 – 800 A	2 NO + 2 NC	„	962.00

### 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		4 Pole On – Load Switch Disconnecter Fuse Change - over		
			In Open Execution	In SS Enclosure	In OE – DIN Type	In OE – BS Type	In SS Enclosure – BS Type
1	32	E	--	--	4100.00	4100.00	--
2	40	E	2895.00	4087.00	--	--	--
3	63	E	2960.00	4095.00	4978.00	4978.00	--
4	80	E	3791.00	4983.00	--	--	--
5	100	E	4598.00	6021.00	7723.00	7723.00	--
6	125	E	5636.00	7379.00	8968.00	8968.00	8895.00
7	160	E	6114.00	7906.00	11603.00	11603.00	--
8	200	E	7485.00	9163.00	15264.00	15264.00	17124.00
9	250	E	10623.00	12934.00	16764.00	16764.00	18132.00
10	315	E	11109.00	13380.00	17753.00	17753.00	18540.00
11	400	E	16137.00	19494.00	23682.00	23682.00	27349.00
12	630	E	18829.00	22300.00	33382.00	33382.00	32600.00

#### 3A. Auxiliary contacts for Change Over Switches.

Sl. No.	Configuration	Unit	Rate Rs.
1	1 NO + 1 NC	Each	164.00
2	2 NO + 2 NC	„	218.00

#### 4. HRC Fuse Bases.

Sl. No.	Rating A	Unit	Rate Rs			
			BS type	DIN type	Bakelite fuse fittings	Cam lock fuse bases (suitable for bus bar connection)
1	20	Each	85.00	--	86.00	79.00
2	32	„	146.00	116.00	101.00	96.00
2	63	„	172.00	164.00	182.00	172.00
3	100	„	444.00	208.00	436.00	492.00
4	125	„	493.00	228.00	--	568.00
5	160	„	--	233.00	--	--
6	250	„	--	416.00	--	--
7	400	„	--	557.00	--	--
8	630	„	--	770.00	--	--

## 5. HRC Fuses.

### 5A. DIN type fuse links

Sl.No	Rating A	Unit	Rate Rs					
			Size 000	Size 00	Size 0	Size 1	Size 2	Size 3
1	2	E	177.00					
2	4	E	177.00					
3	6	E	167.00	194.00				
4	10	E	167.00	194.00				
5	16	E	167.00	194.00				
6	20	E	167.00	194.00				
7	25	E	167.00	194.00				
8	32	E	167.00	194.00		344.00		
9	35/36	E	172.00	194.00		344.00		
10	40	E	172.00	194.00				
11	50	E	172.00	194.00		344.00		
12	63	E	172.00	194.00		344.00		
13	80	E	172.00	201.00	367.00	344.00		
14	100	E	172.00	201.00	367.00	344.00	497.00	
15	125	E		218.00	367.00	344.00	497.00	
16	160	E		218.00	367.00	345.00	497.00	
17	200	E			380.00	345.00	511.00	
18	250	E				380.00	511.00	
19	315	E				730.00	511.00	649.00
20	350/355	E					664.00	
21	400	E					664.00	649.00
22	425	E						649.00
23	500	E						775.00
24	630	E						775.00

### 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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
1	2	E	25.00	33.00				
2	4	E	25.00	33.00		40.50		
3	6	E	25.00	33.00		40.50		
4	8	E	--	33.00		--		
5	10	E	25.00	33.00		40.50		
6	12	E	--	33.00		--		
7	16	E	25.00	33.00		40.50		
8	20	E	30.00	36.00	58.00	40.50		
9	25	E	30.00	36.00	58.00	40.50		
10	32	E	30.00	36.00	58.00	40.50	53.50	
11	35/36	E			71.00		53.50	
12	40	E			71.00		53.50	
13	50	E			71.00		53.50	127.00

1	2	3	4	5	6	7	8	9
14	63	E			71.00		53.50	127.00
15	80	E			146.00			137.00
16	100	E			146.00			137.00
17	125	E			146.00			137.00
18	160	E						182.00
19	200	E						207.00

**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	E	137.00					
2	63	E	137.00					
3	80	E	142.00					
4	100	E	142.00					
5	125	E	145.00	177.00				
6	160	E		188.00				
7	200	E		188.00				
8	225	E		--	299.00			
9	250	E		207.00	299.00			
10	300	E			299.00			
11	315	E			299.00			
12	355	E				456.00	551.00	
13	400	E				557.00	551.00	620.00
14	450	E						620.00
15	500	E						620.00
16	630	E						1010.00

**6. 12 KV Fuse links (conforms to IS 9385 / BS 2692 / IEC 282-1)**

Sl. No.	Fuse Rating A	Unit	Rate in Rs
			For use in air
1	5	„	2787.00
2	6.3	„	2787.00
3	10	„	2787.00
4	16	„	2787.00
5	20	„	2787.00
6	25	„	2787.00
7	31	„	2787.00
8	36	„	2787.00
9	40	„	2787.00
10	45	„	2787.00
11	50	„	2787.00
12	56	„	2787.00
13	63	„	2787.00
14	71	„	2787.00
15	80	„	2990.00

**7. Neutral Links for SDF / load break switches**

Sl. No.	Rating A	Unit	Rate Rs.
1	32 - 63	Each	95.00
2	100 - 160	„	112.00
3	200 - 400	„	208.00
4	630 - 800	„	220.00

**8. 2 Way neutral links mounted on DMC/SMC base**

Sl. No.	Rating	Unit	Rate Rs.
1	32 A	Each	44.00
2	63 A	„	103.00
3	100 A	„	174.00

**9. Neutral bars made out of brass bars with holes in running length, mounted on DMC/SMC supports, with screws.**

Sl. No.	No. of ways	No of holes	Unit	Rate Rs.	
				32 A	63 A
1	4 way	4 + 1	Each	21.00	36.00
2	6 way	6 + 1	„	28.00	51.00
3	8 way	8 + 1	„	36.00	61.00
4	10 way	10 + 1	„	46.00	69.00
5	12 way	12 + 1	„	53.00	76.00
6	16 way	16 + 1	„	70.00	98.00
	18 way	18 + 1		--	130.00
7	20 way	20 + 1	„	89.00	141.00

**10. Castel key Lock**

Sl. No.	Rating A	Unit	Rate Rs.
1	100 - 250	„	1024.00
2	315 - 800	„	1024.00

**11. Key Interlock ( 3 locks two keys)**

Sl. No.	Rating A	Unit	Rate Rs.
1	25 - 63	Each	1669.00
2	100 - 250	„	1669.00
3	315 - 800	„	1669.00

**PART XII****MCCBS AND ACCESSORIES****1. MCCBs with Thermal Magnetic release having adjustable OL**

**1.A. Current limiting type (Ics = 100% Icu) – Icu = 16 / 25 / 35 kA (Thermal setting from 80% to 100%)**

Sl. No.	Rating A	Unit	Rate Rs.					
			Icu = 16 kA		Icu = 25 kA		Icu = 35 kA	
			3 Pole	4 Pole	3 Pole	4 Pole	3 Pole	4 Pole
1	1.6	Each					6893.00	8605.00
2	2	„					6893.00	8605.00
3	2.5	„					6893.00	8605.00
4	3.2	„					6893.00	8605.00
5	4	„					6893.00	8605.00
6	5	„					6893.00	8605.00
7	6.3	„					6893.00	8605.00
8	8	„					6893.00	8605.00
9	10	„					6893.00	8605.00
10	12.5	„					6893.00	8605.00
11	16	„	3717.00	4640.00	3919.00	5181.00	6893.00	8605.00
12	20	„	3717.00	4640.00	3919.00	5181.00	6893.00	8605.00
13	25	„	3717.00	4640.00	4370.00	5451.00	6893.00	8605.00
14	32	„	3717.00	4640.00	4370.00	5451.00	6893.00	8605.00
15	40	„	3717.00	4640.00	4370.00	5451.00	6893.00	8605.00
16	50	„	3717.00	4640.00	4370.00	5451.00	5722.00	8605.00
17	63	„	3717.00	4640.00	4370.00	5451.00	5722.00	8605.00
18	80	„	3717.00	4640.00	4370.00	5451.00	6049.00	8605.00
19	100	„	3717.00	4640.00	4370.00	5451.00	6049.00	8605.00
20	125	„	4663.00	5811.00	5451.00	6825.00	6340.00	9280.00
21	160	„	5857.00	7298.00	6848.00	8560.00	8034.00	11510.00
22	200	„					14281.00	15475.00
23	250	„					14281.00	15475.00
24	320	„					17254.00	21556.00
25	400	„					17254.00	21556.00
26	500	„					19732.00	24665.00
27	630	„					22120.00	27638.00

**1.B. Current limiting type (Ics = 100% Icu) – Icu = 50/ 55 kA & 70 kA (Thermal setting from 80% to 100%)**

Sl. No.	Rating A	Unit	Rate Rs			
			Icu = 50/55 kA		Icu = 70 kA	
			3 Pole	4 Pole	3 Pole	4 Pole
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	1.6	Each	7929.00	9911.00	9033.00	11285.00
2	2	„	7929.00	9911.00	9033.00	11285.00
3	2.5	„	7929.00	9911.00	9033.00	11285.00
4	3.2	„	7929.00	9911.00	9033.00	11285.00
5	4	„	7929.00	9911.00	9033.00	11285.00
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>

6	5	„	7929.00	9911.00	9033.00	11285.00
7	6.3	„	7929.00	9911.00	9033.00	11285.00
8	8	„	7929.00	9911.00	9033.00	11285.00
9	10	„	7929.00	9911.00	9033.00	11285.00
10	12.5	„	7929.00	9911.00	9033.00	11285.00
11	16	„	7929.00	9911.00	9033.00	11285.00
12	20	„	7929.00	9911.00	9033.00	11285.00
13	25	„	7929.00	9911.00	9033.00	11285.00
14	32	„	7929.00	9911.00	9033.00	11285.00
15	40	„	7929.00	9911.00	9033.00	11285.00
16	50	„	7929.00	9911.00	9033.00	11285.00
17	63	„	7929.00	9911.00	9033.00	11285.00
18	80	„	7929.00	9911.00	9033.00	11285.00
19	100	„	7929.00	9911.00	9033.00	11285.00
20	125	„	9821.00	12276.00	11105.00	13875.00
21	160	„	11983.00	15024.00	13785.00	17232.00
22	200	„	16173.00	20182.00	18155.00	22705.00
23	250	„	16173.00	20182.00	18155.00	22705.00
24	320	„	18245.00	22795.00	19236.00	23674.00
25	400	„	18245.00	22795.00	19236.00	24034.00
26	500	„	21601.00	27007.00	23786.00	29733.00
27	630	„	22795.00	28494.00	25115.00	31332.00

## 2. MCCBs with Microprocessor based release having adjustable OL & SC

### 2.A. Current limiting type (Ics = 100% Icu) – Icu = 35 / 50 / 70 kA

Sl. No.	Rating A	Unit	Rate Rs					
			Icu = 35/36 kA		Icu = 50/55 kA		Icu = 70 kA	
			3 Pole	4 Pole	3 Pole	4 Pole	3 Pole	4 Pole
1	10	„	7918.00	10712.00	13498.00	16533.00	13785.00	17840.00
2	25	„	7918.00	10712.00	13498.00	16533.00	13785.00	17840.00
3	40	„	7918.00	--	18859.00	--	--	--
4	63	„	7918.00	10712.00	13498.00	16533.00	13785.00	17840.00
5	100	„	7918.00	10712.00	13498.00	16533.00	13785.00	17840.00
6	125	„	--	--	19338.00	16533.00	--	--
7	160	„	9897.00	14438.00	18572.00	22705.00	18448.00	23989.00
8	200	„	--	--	--	--	22615.00	--
9	250	„	18966.00	22750.00	20343.00	24282.00	22615.00	27435.00
10	320	„	19417.00	23403.00	21061.00	24778.00	22705.00	28382.00
11	400	„	19795.00	24282.00	21707.00	25521.00	23201.00	28990.00
12	500	„	21219.00	26512.00	23622.00	27751.00	25386.00	31715.00
13	630	„	44419.00	49352.00	25441.00	43523.00	52528.00	57191.00

### 3. Motorised MCCBs with Thermal Magnetic release having adjustable OL

#### 3A. Current limiting type (Ics = 100% Icu) – Icu = 16 / 25 / 35 kA (Thermal setting from 80% to 100%)

Sl. No.	Rating A	Unit	Rate Rs.					
			Icu = 16 kA		Icu = 25 kA		Icu = 35 kA	
			3 Pole	4 Pole	3 Pole	4 Pole	3 Pole	4 Pole
1	1.6	Each					19191.00	20903.00
2	2	„					19191.00	20903.00
3	2.5	„					19191.00	20903.00
4	3.2	„					19191.00	20903.00
5	4	„					19191.00	20903.00
6	5	„					19191.00	20903.00
7	6.3	„					19191.00	20903.00
8	8	„					19191.00	20903.00
9	10	„					19191.00	20903.00
10	12.5	„					19191.00	20903.00
11	16	„	16015.00	16939.00	20137.00	18859.00	19191.00	20903.00
12	20	„	16015.00	16939.00	20137.00	18859.00	19191.00	20903.00
13	25	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
14	32	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
15	40	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
16	50	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
17	63	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
18	80	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
19	100	„	16015.00	16939.00	16669.00	18859.00	19191.00	20903.00
20	125	„	--	18110.00	17750.00	20319.00	19732.00	21579.00
21	160	„	16961.00	19597.00	19146.00	22162.00	21309.00	23809.00
22	200	„					26580.00	27773.00
23	250	„					26580.00	27773.00
24	320	„					38067.00	42370.00
25	400	„					38067.00	42370.00
26	500	„					40545.00	45478.00
27	630	„					42933.00	48451.00

#### 3B. Current limiting type (Ics = 100% Icu) – Icu = 50/ 55 kA & 70 kA (Thermal setting from 80% to 100%)

Sl. No.	Rating A	Unit	Rate Rs			
			Icu = 50/55 kA		Icu = 70 kA	
			3 Pole	4 Pole	3 Pole	4 Pole
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	1.6	Each	20227.00	22210.00	21331.00	23584.00
2	2	„	20227.00	22210.00	21331.00	23584.00
3	2.5	„	20227.00	22210.00	21331.00	23584.00
4	3.2	„	20227.00	22210.00	21331.00	23584.00

1	2	3	4	5	6	7
5	4	..	20227.00	22210.00	21331.00	23584.00
6	5	..	20227.00	22210.00	21331.00	23584.00
7	6.3	..	20227.00	22210.00	21331.00	23584.00
8	8	..	20227.00	22210.00	21331.00	23584.00
9	10	..	20227.00	22210.00	21331.00	23584.00
10	12.5	..	20227.00	22210.00	21331.00	23584.00
11	16	..	20227.00	22210.00	21331.00	23584.00
12	20	..	20227.00	22210.00	21331.00	23584.00
13	25	..	20227.00	22210.00	21331.00	23584.00
14	32	..	20227.00	22210.00	21331.00	23584.00
15	40	..	20227.00	22210.00	21331.00	23584.00
16	50	..	20227.00	22210.00	21331.00	23584.00
17	63	..	20227.00	22210.00	21331.00	23584.00
18	80	..	20227.00	22210.00	21331.00	23584.00
19	100	..	20227.00	22210.00	21331.00	23584.00
20	125	..	22120.00	24575.00	23403.00	26174.00
21	160	..	24282.00	27323.00	26084.00	29530.00
22	200	..	28472.00	32481.00	30454.00	35004.00
23	250	..	28472.00	32481.00	30454.00	35004.00
24	320	..	39058.00	43608.00	40049.00	44487.00
25	400	..	39058.00	43608.00	40049.00	44487.00
26	500	..	42415.00	47821.00	44600.00	50546.00
27	630	..	43608.00	49307.00	45928.00	52145.00

#### 4. Motorised MCCBs with Microprocessor based release having adjustable OL & SC

Sl. No.	Rating A	Unit	Rate Rs					
			Icu = 35/36 kA		Icu = 50/55 kA		Icu = 70 kA	
			3 Pole	4 Pole	3 Pole	4 Pole	3 Pole	4 Pole
1	10	..	22818.00	25994.00	25003.00	41131.00	26084.00	26084.00
2	25	..	22818.00	25994.00	25003.00	41131.00	26084.00	26084.00
3	40	..	22818.00	--	25003.00	--	--	--
4	63	..	22818.00	25994.00	25003.00	41131.00	26084.00	26084.00
5	100	..	22818.00	25994.00	25003.00	41131.00	26084.00	26084.00
6	125		--	--	29778.00	44239.00	--	--
7	160	..	26332.00	30544.00	29778.00	47303.00	30747.00	30747.00
8	200	..	--	--	--	48167.00	34914.00	34914.00
9	250	..	31265.00	35049.00	31445.00	48879.00	34914.00	34914.00
10	320	..	40230.00	44217.00	31445.00	66404.00	43518.00	43518.00
11	400	..	40680.00	45095.00	40635.00	67147.00	44014.00	44014.00
12	500	..	42032.00	47325.00	41243.00	69377.00	46199.00	46199.00
13	630	..	65232.00	70165.00	41243.00	93051.00	73341.00	73341.00

#### 5. 3 pole MCCBs, with only SC protection for motor starters (Ics = 100% Icu) current limiting type

Sl. No.	Rating	Unit	Rate Rs.	
			Icu = 35 kA	Icu = 50 kA
1	2	3	4	5
1	1	Each	7771.00	8605.00
2	1.6	..	7771.00	8605.00
3	2	..	7771.00	8605.00

1	2	3	4	5
4	2.5	„	7771.00	8605.00
5	3.2	„	7771.00	8605.00
6	4	„	7771.00	8605.00
7	5	„	7771.00	8605.00
8	6.5	„	7771.00	8605.00
9	8.5	„	7771.00	8605.00
10	11	„	7771.00	8605.00
11	12.5	„	7771.00	8605.00
12	20	„	7771.00	8605.00
13	32	„	7771.00	8605.00
14	52	„	7771.00	8605.00
15	80	„	7771.00	8605.00
16	100	„	7771.00	8605.00
17	125	„	8514.00	16376.00
18	160	„	9370.00	16376.00
19	200	„	9370.00	16376.00
20	400	„	21669.00	22660.00

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

Sl. No.	Rating	Unit	Rate Rs.
1	100 A	Each	4758.00
2	125 A	„	4758.00
3	160 A	„	4758.00
4	200 A	„	4758.00
5	250 A	„	5390.00
6	400 A	„	5390.00
7	630 A	„	4758.00
8	800 A	„	4758.00

#### 7. Accessories for MCCBs

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
	<b>Auxiliary Switch (1 NO + 1 NC)</b>		
1	Up to 400A	Each	924.00
2	630A	„	1712.00
	<b>Auxiliary Switch + Alarm switch (1 NO + 1 NC &amp; 1 NO)</b>		
1	Up to 400A	„	1433.00
2	630A	„	1991.00
	<b>Under Voltage release</b>		
1	For all voltage ranges up to 400A MCCB	„	2194.00
2	For all voltage ranges 630A to 1600A MCCB	„	2595.00
	<b>Shunt release</b>		
1	For all voltage ranges up to 400A MCCB	„	1644.00
2	For all voltage ranges 630A to 1600A MCCB	„	2198.00
	<b>Rotary drive Kit (including BUC handle with door interlock defeat and pad lock facility)</b>		
1	Up to 160A	„	919.00

1	2	3	4
2	200 – 250A	„	919.00
3	315- 400A	„	1370.00
4	630 – 800A	„	1370.00
<b>Kastel inter-lock kit</b>			
1	Up to 250A	„	2050.00
2	315 to 800A	„	2108.00
<b>Spreader /Terminal adapter Kit</b>			
1	Extended terminal for 3 pole MCCB of rating up to 160 A (6 Pcs)	„	451.00
2	Extended terminal for 4 pole MCCB of rating up to 160 A (8 Pcs)	„	541.00
3	Extended terminal for 3 pole MCCB of rating 200 A & 250 A (6 Pcs)	„	811.00
4	Extended terminal for 4 pole MCCB of rating 200 A & 250 A (8 Pcs)	„	1014.00
5	Extended terminal for 3 pole MCCB of rating 320 A (6 Pcs)	„	991.00
6	Extended terminal for 4 pole MCCB of rating 320 A (8 Pcs)	„	1261.00
7	Extended terminal for 3 pole MCCB of rating 400 A & 630 A (6 Pcs)	„	1352.00
8	Extended terminal for 4 pole MCCB of rating 400 A & 630 A (8 Pcs)	„	1802.00

### PART XIII

### CONTACTORS

#### 1. 3 pole Power Contactors (*motor application*)

Sl.No	AC1 duty A	AC 3 rating at 415 V			Unit	With AC Coil		With DC Coil	
		A	HP	KW		Auxiliary contacts	Rate Rs	Auxiliary contacts	Rate Rs
1	25	9	5.5	4	Each	1 NO/ 1NC	523.00	1 NO/ 1NC	824.00
2	27	12	7.5	5.5	„	1 NO/ 1NC	581.00	1 NO/ 1NC	887.00
3	30	17	10	7.5	„	1 NO/ 1NC	671.00	1 NO/ 1NC	982.00
4	45	26	15	11	„	1 NO/ 1NC	865.00	1 NO/ 1NC	2117.00
5	55	32	20	15	„	1 NO/ 1NC	1847.00	1 NO/ 1NC	3018.00
6	60	40	25	18.5	„	1 NO/ 1NC	2748.00	1 NO/ 1NC	3514.00
7	100	50	34	25	„	1No+1NC	3379.00	1No+1NC	5406.00
8	115	65	50	37	„	1No+1NC	4550.00	1No+1NC	5676.00
9	125	75	54	40	„	1No+1NC	5001.00	1No+1NC	5947.00
10	145	96	60	45	„	1No+1NC	6600.00	1No+1NC	8695.00
11	160	110	75	55	„	1No+1NC	7613.00	1No+1NC	10001.00
12	250	145	80	60	„	1No+1NC	9911.00	1No+1NC	12974.00
13	275	185	100	75	„	1No+1NC	13290.00	1No+1NC	16398.00
14	350	210	125	95	„	1No+1NC	14101.00	1No+1NC	20525.00
15	400	260	150	110	„	1No+1NC	18110.00	1No+1NC	23345.00
16	500	300	190	140	„	1No+1NC	21286.00	1No+1NC	24778.00
17	600	400	220	165	„	1No+1NC	26084.00	1No+1NC	26084.00
18	700	460	300	225	„	1No+1NC	37392.00	1No+1NC	37392.00
19	800	580	430	320	„	1No+1NC	49555.00	1No+1NC	49555.00

## 2. 4 pole Power Contactors

Sl. No.	AC 1 Rating	Unit	AC coil	
			Auxiliary Contacts	Rate Rs.
1	16	Each		725.00
2	25	„		815.00
3	32	„		892.00
4	40	„		1406.00
5	50	„		1667.00
6	63	„	2 NO+ 2NC	3415.00
7	80	„	2 NO+ 2NC	4631.00
8	100	„	2 NO+ 2NC	5465.00
9	130	„	1No+1NC	7573.00
10	160	„	1No+1NC	10312.00
11	200	„	1No+1NC	12623.00
12	255	„	1No+1NC	14727.00
13	325	„	2 NO+ 2NC	24192.00
14	360	„	2 NO+ 2NC	26300.00
15	400	„	2 NO+ 2NC	32612.00
16	500	„	2 NO+ 2NC	37865.00
17	600	„	2 NO+ 2NC	45230.00
18	700	„	2 NO+ 2NC	55745.00

## 3. 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	1306.00
2	7.5 - 10	1 NO	„	1397.00
3	11 - 15		„	1712.00
4	16 - 25		„	2388.00
5	28 - 50	1 NO	„	6010.00
6	60		„	6758.00
7	70		„	11488.00
8	80		„	12164.00

## 4. Mini Power Contactors.

Sl. No.	AC 3 Rating	Unit	3 Pole Mini contactor			4 Pole Mini contactor	
			Auxiliary Contacts	Rate Rs.		Rate Rs.	
				AC coil	DC coil	AC coil	DC coil
1	6 A	Each	1 NO/1 NC	489.00	744.00		
2	9 A	„	1 NO/1 NC	636.00	776.00	717.00	717.00
3	12 A	„	1 NO/1 NC	678.00	833.00	771.00	771.00

## 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	800	Each	79457.00	109804.00	103390.00	141491.00
2	1000	..	85488.00	113442.00	110857.00	148096.00
3	1250	..	106070.00	135747.00	138236.00	177486.00
4	1600	..	119473.00	148192.00	153936.00	191463.00
5	2000	..	144363.00	172891.00	186102.00	225543.00
6	2500	..	169540.00	194334.00	220661.00	250146.00
7	3200	..	129812.00	248710.00	270345.00	300117.00

#### 2. Microprocessor based ACBs with Overload, Instantaneous SC, Delayed SC, and Ground fault 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	800	Each	93704.00	122536.00	106678.00	148665.00
2	1000	..	99110.00	127942.00	113526.00	154522.00
3	1250	..	119833.00	148665.00	141457.00	175335.00
4	1600	..	130645.00	159477.00	149656.00	193985.00
5	2000	..	155873.00	184705.00	179479.00	222367.00
6	2500	..	180200.00	209032.00	212546.00	248496.00
7	3200	..	233359.00	262191.00	259939.00	291924.00

#### 3. Microprocessor based ACBs having advanced protections with power monitoring and communication facilities

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	800	Each	111499.00	143034.00	138258.00	169793.00
2	1000	..	115688.00	147223.00	143484.00	175019.00
3	1250	..	136592.00	168127.00	169613.00	201148.00
4	1600	..	154026.00	185561.00	191417.00	222952.00
5	2000	..	172542.00	204077.00	214573.00	246108.00
6	2500	..	218898.00	205383.00	272507.00	304042.00
7	3200	..	231476.00	263011.00	288230.00	319765.00

#### 4. Accessories for ACBs.

Sl. No.	Description	Unit	Rate Rs.
1	Shunt release	Each	1867.00
2	Instantaneous Under Voltage release	„	2489.00
3	Under Voltage release with time delay 0.2 sec. to 3.2 sec.	„	4784.00
4	Motorized operating mechanism	„	27101.00
5	Mutual mechanical inter-lock	„	9427.00
6	CT for 3P and 4P circuit breakers for neutral overload and ground fault protection		
a	630 A	„	1767.00
b	800 A	„	1767.00
c	1000 A	„	1767.00
d	1250 A	„	1767.00
e	1600 A	„	1767.00
f	2000 A	„	2592.00
7	Castel Key and pad lock combination	„	1580.00

### PART XV

#### DIGITAL PROTECTIVE RELAYS

##### 1. 3 Phase over current + Earth fault relay.

CT rating 1 A or 5A, field selectable

Sl. No.	Aux. Supply voltage	Output contacts	Unit	Rate Rs.
1	20 – 110 V AC/DC	4 NO	Each	16274.00
2	20 – 110 V AC/DC	2 NO + 2NC	„	16274.00
3	88 – 264 V AC/DC	4 NO	„	16274.00
4	88 – 264 V AC/DC	2 NO + 2NC	„	16274.00

##### 2. 3 Phase over current + Earth fault relay with high set.

CT rating 1 A or 5A, field selectable

Sl. No.	Aux. Supply voltage	Output contacts	Unit	Rate Rs.
1	20 – 110 V AC/DC	4 NO	Each	22018.00
2	20 – 110 V AC/DC	2 NO + 2NC	„	22018.00
3	88 – 264 V AC/DC	4 NO	„	22018.00
4	88 – 264 V AC/DC	2 NO + 2NC	„	22018.00

##### 3. 3 Phase over current + Earth fault relay with high set & RS – 485.

CT rating 1 A or 5A, **not** field selectable

Sl. No.	Aux. Supply voltage	CT secondary (A)		Unit	Rate Rs.
		In	On		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	20 – 110 V AC/DC	1 A	1 A	Each	37335.00

1	2	3	4	5	6
2	20 – 110 V AC/DC	5 A	5 A	„	37335.00
3	88 – 264 V AC/DC	1 A	1 A	„	37335.00
4	88 – 264 V AC/DC	5 A	5 A	„	37335.00

#### 4. Single Phase over current or Earth fault relay.

Sl. No.	Aux. Supply voltage	CT secondary (A)	Unit	Rate Rs.
1	20 – 110 V AC/DC	1 A	Each	8999.00
2	20 – 110 V AC/DC	5 A	„	8999.00
3	88 – 264 V AC/DC	1 A	„	8999.00
4	88 – 264 V AC/DC	5 A	„	8999.00

#### 5. Single Phase sensitive earth fault relay.

Sl. No.	Aux. Supply voltage	CT secondary (A)	Unit	Rate Rs.
1	20 – 110 V AC/DC	1 A	Each	8999.00
2	20 – 110 V AC/DC	5 A	„	8999.00
3	88 – 264 V AC/DC	1 A	„	8999.00
4	88 – 264 V AC/DC	5 A	„	8999.00

#### 6. Single Phase Under voltage or Over voltage relay.

Sl. No.	Aux. Supply voltage	Unit	Rate Rs.
1	20 – 110 V AC/DC	Each	8999.00
2	88 – 264 V AC/DC	„	8999.00

#### 7. Instantaneous earth fault relay.

CT rating 1 A or 5A, not field selectable

Sl. No.	CT secondary (A)	Range	Unit	Rate Rs.
1	1 A	10 – 40 %	Each	7850.00
2	1 A	20 – 80 %	„	7850.00
3	5 A	10 – 40 %	„	7850.00
4	6 A	20 – 80 %	„	7850.00

#### 8. Reverse Power relay.

Sl. No.	Aux. Supply voltage	CT secondary (A)	Unit	Rate Rs.
1	20 – 110 V AC/DC	1 A	Each	20104.00
2	20 – 110 V AC/DC	5 A	„	20104.00
3	88 – 264 V AC/DC	1 A	„	20104.00
4	88 – 264 V AC/DC	5 A	„	20104.00

#### 9. Mini Motor Protection relay.

Sl. No.	Thermal Overload range	Unit	Rate Rs.
1	2	3	4
1	1 – 2.75	Each	7124.00

1	2	3	4
2	2 – 5.5	„	7124.00
3	4 – 11	„	7124.00
4	8 – 22	„	7124.00
5	16 – 44	„	7124.00
6	32 – 88	„	7124.00

#### 10. Neutral displacement relay.

Sl. No.	Aux. Supply voltage	Unit	Rate Rs.
1	20 – 110 V	Each	9477.00
2	88 – 264 V	„	9477.00

#### 11. Control & Supervisory relay.

Sl. No.	Description	Unit	Rate Rs.
1	PT Fuse failure relay	Each	7850.00
2	Eight Stage APFC relay	„	12637.00
3	Fourteen Stage APFC relay	„	15700.00
4	Trip circuit supervision relay 20 – 110 V AC/DC	„	8807.00
5	Trip circuit supervision relay 88 – 264 V AC/DC	„	8807.00

#### 12. Other relays.

Sl. No.	Description	Unit	Rate Rs.
1	2	3	4
1	Feeder Manager 20 - 110 V	Each	229755.00
2	Feeder Manager 88 - 264 V	„	229755.00
3	Frequency relay 20 - 110 V	„	114878.00
4	Frequency relay 88 - 264 V	„	114878.00
5	Motor protection relay 20 - 110 V	„	63183.00
6	Motor protection relay 88 - 264 V	„	63183.00
7	Motor protection relay with Voltage Input 20 - 110 V	„	78500.00
8	Motor protection relay with Voltage Input 88 - 264 V	„	78500.00
9	Generator Protection relay for Generators with NGR (Neutral grounding resistor) 20 - 110 V	„	201036.00
10	Generator Protection relay for Generators with NGR (Neutral grounding resistor) 88 - 264 V	„	201036.00
11	Generator Protection relay for Generators without NGR (Neutral grounding resistor) 20 - 110 V	„	201036.00
12	Generator Protection relay for Generators without NGR (Neutral grounding resistor) 88 - 264 V	„	201036.00
13	Differential relay for Generator 20 - 110 V	„	248901.00
14	Differential relay for Generator 88 - 264 V	„	248901.00
15	Differential relay for Transformer 20 - 110 V W/O ref	„	138810.00
16	Differential relay for Transformer 88 - 264 V W/O ref	„	138810.00
17	3 PH O/C & E/F Relay for Transformer 20 - 110 V	„	114878.00
18	3 PH O/C & E/F Relay for Transformer 88 - 264 V	„	114878.00
19	Frequency & 1 ph voltage relay 20 - 110 V	„	67012.00
20	Frequency & 1 ph voltage relay 88 - 264 V	„	67012.00

1	2	3	4
21	Frequency & 3 ph voltage relay 20 - 110 V	„	89987.00
22	Frequency & 3 ph voltage relay 88 - 264 V	„	89987.00
23	2 O/C + E/F relay 20 - 110 V	„	72756.00
24	2 O/C + E/F relay 88 - 264 V	„	72756.00
25	3 O/C + E/F relay 20 - 110 V	„	78021.00
26	3 O/C + E/F relay 88 - 264 V	„	78021.00
27	Auto Synchronizing relay 20 - 110 V	„	134024.00
28	Auto Synchronizing relay 88 - 264 V	„	134024.00
29	U/V Relay with Neutral monitoring 20 - 110 V	„	114878.00
30	U/V Relay with Neutral monitoring 88 - 264 V	„	114878.00
31	Power Management relay 20 - 110 V	„	153170.00
32	Power Management relay 88 - 264 V	„	153170.00
33	Load Sharing Relay 20 - 110 V	„	86158.00
34	Load Sharing Relay 88 - 264 V	„	86158.00

## PART XVI

### PANEL MOUNTING METERS

#### 1. Analogous meters

##### 1.A. AC Voltmeters with 90° deflection scale – accuracy class 1

Sl. No.	Range	Unit	Rate Rs.		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
1	0-6 V	Each	365.00	424.00	607.00
2	0-10 V	„	365.00	424.00	607.00
3	0-15 V	„	365.00	424.00	607.00
4	0-25 V	„	365.00	424.00	607.00
5	0-40 V	„	365.00	424.00	607.00
6	0-60 V	„	365.00	424.00	607.00
7	0-100 V	„	365.00	424.00	607.00
8	0-150 V	„	365.00	424.00	607.00
9	0-200 V	„	365.00	424.00	607.00
10	0-250 V	„	365.00	424.00	607.00
11	0-300 V	„	365.00	424.00	607.00
12	0-400 V	„	415.00	442.00	442.00
13	0-500 V	„	415.00	442.00	442.00
14	0-600 V	„	415.00	442.00	442.00
15	0-15 KV PT 11KV/110 V	„	365.00	424.00	607.00

**1.B. AC Ammeters – Direct reading type with 90° deflection scale – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
1	0-100 mA	Each	382.00	539.00	339.00
2	0-150 mA	„	382.00	539.00	339.00
3	0-250 mA	„	382.00	539.00	339.00
4	0-400 mA	„	382.00	539.00	339.00
5	0-600 mA	„	382.00	539.00	339.00
6	0-1 A	„	382.00	539.00	339.00
7	0-1.50 A	„	382.00	539.00	339.00
8	0-2.50 A	„	382.00	539.00	339.00
9	0-3 A	„	382.00	539.00	339.00
10	0-4 A	„	382.00	539.00	339.00
11	0-5 A	„	382.00	539.00	339.00
12	0-6 A	„	382.00	539.00	339.00
13	0-10 A	„	382.00	539.00	339.00
14	0-15 A	„	382.00	539.00	339.00
15	0-20 A	„	382.00	539.00	339.00
16	0-25 A	„	382.00	539.00	339.00
17	0-30 A	„	382.00	539.00	339.00
18	0-40 A	„	444.00	634.00	425.00
19	0-50 A	„	444.00	634.00	425.00
20	0-60 A	„	444.00	634.00	425.00
21	0-75 A	„	444.00	634.00	425.00
22	0-100 A	„	444.00	634.00	425.00

**1.C. AC Ammeters – CT operated type – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
1	90° deflection scale, -/1A or -/5A with dial	Each	339.00	382.00	539.00
2	240° deflection scale, -/1A or -/5A with dial	„	1077.00	1135.00	1314.00

**1.D. AC Bimetal type maximum demand Ammeters – CT operated type – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.	
			72 x 72 mm	96 x 96 mm
1	90° deflection scale, -/1A or -/5A with dial	Each	1244.00	1283.00

**1.E. AC Bimetal type maximum demand Ammeters with instantaneous ammeter- CT operated type – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.	
			72 x 72 mm	96 x 96 mm
1	90° deflection scale, -/1A or -/5A with dial	Each	1547.00	1585.00

**1.F. Frequency meters with 90° deflection scale – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
1	45-50-55 Hz, 110 V	Each	754.00	792.00	867.00
2	45-50-55 Hz, 240 V	„	754.00	792.00	867.00
3	45-50-55 Hz, 440 V	„	754.00	792.00	867.00
4	48-50-52 Hz, 110 V	„	754.00	792.00	867.00
5	48-50-52 Hz, 240 V	„	754.00	792.00	867.00
6	48-50-52 Hz, 440 V	„	754.00	792.00	867.00

**1.G. Frequency meters –vibrating reed type – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
1	45/47-50- 53/55 Hz, 110 V	Each	523.00	613.00	822.00
2	45/47-50- 53/55 Hz, 240 V	„	523.00	613.00	822.00
3	45/47-50- 53/55 Hz, 440 V	„	523.00	613.00	822.00

**1.H. Power factor meters (balanced/ unbalanced load type) with 90° deflection scale – accuracy class 1.**

Sl. No.	Range	Unit	Rate Rs.		
			72 x 72 mm	96 x 96 mm	144 x 144 mm
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	E1C, 0.50-1-0.50, 240V, 1A, 1 Ph, 1 ele.	Each	1320.00	1358.00	1433.00
2	E1C, 0.50-1-0.50, 240V, 5A, 1 Ph, 1 ele.	„	1320.00	1358.00	1433.00
3	E1C, 0.80-1-0.80, 240V, 1A, 1 Ph, 1 ele.	„	1320.00	1358.00	1433.00
4	E1C, 0.80-1-0.80, 240V, 5A, 1 Ph, 1 ele.	„	1320.00	1358.00	1433.00
5	D1C, 0.50-1-0.50, 110V, 1A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
6	D1C, 0.50-1-0.50, 110V, 5A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
7	D1C, 0.50-1-0.50, 440V, 1A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
8	D1C, 0.50-1-0.50, 440V, 5A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
9	D1C, 0.80-1-0.80, 110V, 1A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
10	D1C, 0.80-1-0.80, 110V, 5A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
11	D1C, 0.80-1-0.80, 440V, 1A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
12	D1C, 0.80-1-0.80, 440V, 5A, 3 Ph, 1 ele.	„	1320.00	1358.00	1433.00
13	D2C, 0.50-1-0.50, 110V, 1A, 3Ph, 2 ele, 3W	„		3016.00	3395.00
14	D2C, 0.50-1-0.50, 110V, 5A, 3Ph, 2 ele, 3W	„		3016.00	3395.00
15	D2C, 0.50-1-0.50, 440V, 1A, 3Ph, 2 ele, 3W	„		3016.00	3395.00

1	2	3	4	5	6
16	D2C, 0.50-1-0.50, 440V, 5A, 3Ph, 2 ele, 3W	„		3016.00	3395.00
17	V3C, 0.50-1-0.50, 110V, 1A, 3Ph, 3 ele, 3W	„		3697.00	4150.00
18	V3C, 0.50-1-0.50, 110V, 5A, 3Ph, 3 ele, 3W	„		3697.00	4150.00
19	V3C, 0.50-1-0.50, 440V, 1A, 3Ph, 3 ele, 3W	„		3697.00	4150.00
20	V3C, 0.50-1-0.50, 440V, 5A, 3Ph, 3 ele, 3W	„		3697.00	4150.00

### 1.I. Power (KW) meters – accuracy class 1.

Sl. No.	Range	Unit	Rate Rs.	
			90° deflection scale	
			96 x 96 mm	144 x 144 mm
1	1 Ph, 1 ele, -/1A, 240 V	Each	1509.00	1689.00
2	1 Ph, 1 ele, -/5A, 240 V	„	1509.00	1689.00
3	3 Ph, 2 ele, -/1A, 110 V	„	2414.00	2696.00
4	3 Ph, 2 ele, -/5A, 110 V	„	2414.00	2696.00
5	3 Ph, 2 ele, -/1A, 440 V	„	2414.00	2696.00
6	3 Ph, 2 ele, -/5A, 440 V	„	2414.00	2696.00
7	3 Ph, 1 ele, -/1A, 110 V	„	1810.00	1935.00
8	3 Ph, 1 ele, -/5A, 110 V	„	1810.00	1935.00
9	3 Ph, 1 ele, -/1A, 440 V	„	1810.00	1935.00
10	3 Ph, 1 ele, -/5A, 440 V	„	1810.00	1935.00
11	3 Ph, 3 ele, -/1A, 110 V	„	3016.00	3356.00
12	3 Ph, 3 ele, -/5A, 110 V	„	3016.00	3356.00
13	3 Ph, 3 ele, -/1A, 440 V	„	3016.00	3356.00
14	3 Ph, 3 ele, -/5A, 440 V	„	3016.00	3356.00

### 1.J. Power (KVAR) meters – accuracy class 1.

Sl. No.	Range	Unit	Rate Rs.	
			90° deflection scale	
			96 x 96 mm	144 x 144 mm
1	1 Ph, 1 ele, -/1A, 240 V	Each	1509.00	1689.00
2	1 Ph, 1 ele, -/5A, 240 V	„	1509.00	1689.00
3	3 Ph, 2 ele, -/1A, 110 V	„	2310.00	2696.00
4	3 Ph, 2 ele, -/5A, 110 V	„	2310.00	2696.00
5	3 Ph, 2 ele, -/1A, 440 V	„	2310.00	2696.00
6	3 Ph, 2 ele, -/5A, 440 V	„	2310.00	2696.00
7	3 Ph, 3 ele, -/1A, 110 V	„	3016.00	3356.00
8	3 Ph, 3 ele, -/5A, 110 V	„	3016.00	3356.00
9	3 Ph, 3 ele, -/1A, 440 V	„	3016.00	3356.00
10	3 Ph, 3 ele, -/5A, 440 V	„	3016.00	3356.00

**1.K. Synchroscope – LED type 96 x 96 mm.**

Sl. No.	Range	Unit	Rate Rs.
1	440 V	Each	2043.00
2	240 V	„	2043.00
3	110 V	„	2043.00

**2. Digital meters.****2.A. Single phase, Three phase, and Multifunction meters.**

Sl. No.	Description	Parameter	Unit	Rate Rs.	
				Accuracy class 1	Accuracy class 0.50
<b>Single phase meters</b>					
1	Single phase Voltmeter	V	Each	1306.00	1768.00
2	Single phase Kilo Voltmeter	KV	„	1306.00	1768.00
3	Single phase Ammeter	A	„	1306.00	1768.00
4	Single phase Kilo Ammeter	KA	„	1306.00	1768.00
5	Single phase frequency meter	Hz	„		
<b>Three phase meters</b>					
1	Three phase Voltmeter	V- RY, YB, BR, R, Y, B	„	2152.00	2766.00
2	Three phase Kilo Voltmeter	KV- RY, YB, BR, R, Y, B	„	2152.00	2766.00
3	Three phase Ammeter	A – R, Y, B	„	2368.00	2982.00
4	Three phase Kilo Ammeter	KA – R, Y, B	„	2368.00	2982.00
5	Three phase energy meter	KWh / MWh	„	4226.00	5071.00
<b>Multifunction meters</b>					
1	Multifunction meter to read:	V, A, F Three phase	„	2305.00	2884.00
2	Multifunction meter to read:	W, Wh or VA, Vah or VAR, VARh or PF – 3 ph	„	4610.00	5763.00
3	Multifunction meter to read:	W, Wh, PF or VA, Vah, PF or VAR, VARh, PF – 3 ph	„	5378.00	6726.00

**2.B. Monitors & demand controllers**

Sl. No.	Description	Unit	Rate Rs.	
			Accuracy class 1	Accuracy class 0.50
1	Power & energy monitor without port	Each	22351.00	25145.00
2	Power & energy monitor with port	„	27939.00	30907.00
3	Trivector monitor without port	„	36670.00	39463.00
4	Trivector monitor with port	„	41908.00	45226.00
5	Smart demand controller without port	„	48090.00	50884.00
6	Smart demand controller with port	„	53252.00	56647.00

### 2.C. Load managers.

Sl. No.	Description	Unit	Rate Rs.	
			Accuracy class 1	Accuracy class 0.50
1	Load manager	Each	13062.00	15366.00
2	Load manager with RS 485	„	19208.00	21513.00
3	Load manager with demand	„	19977.00	22072.00
4	Load manager with demand & RS 485	„	26123.00	28219.00
5	Load manager with I/E option	„	19208.00	21304.00
6	Load manager with I/E option & RS 485	„	25355.00	27451.00
7	Load manager with I/E option & demand	„	23049.00	25145.00
8	Load manager with I/E option, demand & RS 485	„	29196.00	31292.00
9	Power and energy monitor with RS 485	„	10756.00	13062.00
10	V, A, F, PF meter	„	3842.00	5937.00
11	V, A, F, PF meter with RS 485	„	5238.00	7334.00
12	Energy meter	„	13062.00	6286.00
13	Energy meter with RS 485	„	19208.00	6985.00

### 3. Surface Mounting Meters.

Sl. No.	Description	Unit	Rate Rs.	
			Accuracy class 1	Accuracy class 0.50
<b>A</b>	<b>TOD meters</b>			
1	3 Phase, 3 wire, 110 V (L-L), -/1 A CT or -/5A CT	Each	14845.00	19212.00
<b>B</b>	<b>Base mount electronic type energy meter – accuracy class 1</b>			
1	Single phase kWh meter, 240 V, 10 – 40 A	„	2095.00	1152.00
2	Single phase kWh meter, 240 V, 10 – 60 A	„	2654.00	1152.00
3	3 Phase, 3 wire, CT operated, 110 V, 1-2 A	„	5448.00	3039.00
4	3 Phase, 3 wire, CT operated, 110 V, 5 – 10 A	„	5448.00	3039.00
5	3 Phase, 4 wire, CT operated, 240 V, 1-2 A	„	5448.00	3039.00
6	3 Phase, 4 wire, CT operated, 240 V, 5-10 A	„	4890.00	3039.00
7	3 Phase, 4 wire, direct reading, 240 V, 5-10 A	„	4890.00	3144.00
8	3 Phase, 4 wire, direct reading, 240 V, 10-40 A	„	4890.00	3144.00
9	3 Phase, 4 wire, direct reading, 240 V, 50-100 A	„	6985.00	
<b>C</b>	<b>Flush mount electronic type energy meters 96 x 96 mm – accuracy class 1</b>			
1	3 Phase, 4 wire, 240 V, 1 A	„	5937.00	
2	3 Phase, 4 wire, 240 V, 5 A	„	5588.00	
3	3 Phase, 3 wire, 415 V, 1 A	„	5937.00	
4	3 Phase, 3 wire, 415 V, 5 A	„	5937.00	
5	3 Phase, 3 wire, 110 V, 1 A	„	5937.00	
6	3 Phase, 3 wire, 110 V, 5 A	„	5937.00	

#### 4. Cam Switches

Sl. No.	Rating	Unit	Rate Rs.							
			Three Way No Off				Three Way with Off			
			1 Pole	2 Pole	3 Pole	4 Pole	1 Pole	2 Pole	3 Pole	4 Pole
1	16 A	Each	179.00	218.00	336.00	414.00	179.00	218.00	336.00	414.00
2	25 A	„	210.00	250.00	374.00	452.00	210.00	250.00	374.00	452.00
3	32 A	„	227.00	257.00	389.00	460.00	227.00	257.00	389.00	460.00
4	40 A	„	366.00	389.00	546.00	725.00	370.00	389.00	546.00	725.00
5	63 A	„	414.00	452.00	686.00	858.00	414.00	452.00	686.00	858.00

#### 5. Ammeter and Voltmeter Selector Switches

Sl. No.	Rating	Unit	Rate Rs.
1	Ammeter selector switch 6A 3 Pole	Each	117.00
2	Voltmeter selector switch 6 A 3 Pole		
a	To read 3 phases	„	94.00
b	To read 3 phases + N	„	94.00
c	To read 3 Ph & 3Ph.N	„	156.00

#### 6. Current Transformers for Metering and Protection applications.

##### 6.A. Metering CT

Sl. No.	CT ratio	Burden	Accuracy class	Unit	Rate Rs.	
					Tape wound	Resin cast
1	2	3	4	5	6	7
1	20/5, 30/5, 40/5 A	5 VA	5.0	Each	454.00	822.00
2	50/5 to 75/5 A	5 VA	3.0	„	469.00	850.00
3	100/5 A	5 VA	1.0	„	526.00	966.00
4	100/5 A	5 VA	0.5	„	1139.00	1081.00
5	120/5 A	5 VA	1.0	„	548.00	836.00
6	120/5 A	5 VA	0.5	„	1052.00	952.00
7	150/5 A	5 VA	1.0	„	721.00	749.00
8	150/5 A	5 VA	0.5	„	763.00	800.00
9	200/5 A	5 VA	1.0	„	619.00	850.00
10	200/5 A	5 VA	0.5	„	721.00	908.00
11	250/5 A	5 VA	1.0	„	650.00	850.00
12	250/5 A	5 VA	0.5	„	735.00	952.00
13	300/5 A	5 VA	1.0	„	619.00	822.00
14	300/5 A	5 VA	0.5	„	743.00	937.00
15	400/5 A	5 VA	1.0	„	591.00	836.00
16	400/5 A	5 VA	0.5	„	721.00	908.00
17	200/5 A	10 VA	1.0	„	663.00	1009.00
18	200/5 A	10 VA	0.5	„	865.00	1081.00
19	250/5 A	10 VA	1.0	„	778.00	1009.00
20	250/5 A	10 VA	0.5	„	857.00	1081.00
21	300/5 A	10 VA	1.0	„	793.00	952.00

1	2	3	4	5	6	7
22	300/5 A	10 VA	0.5	„	822.00	1023.00
23	400/5 A	10 VA	1.0	„	663.00	980.00
24	400/5 A	10 VA	0.5	„	807.00	1059.00
25	400/5 A	15 VA	1.0	„	749.00	994.00
26	400/5 A	15 VA	0.5	„	865.00	1081.00
27	500/5 A	15 VA	1.0	„	800.00	980.00
28	500/5 A	15 VA	0.5	„	901.00	1052.00
29	600/5 A	15 VA	1.0	„	865.00	1023.00
30	600/5 A	15 VA	0.5	„	952.00	1066.00
31	800/5 A	15 VA	1.0	„	930.00	994.00
32	800/5 A	15 VA	0.5	„	1009.00	1037.00
33	1000/5 A	15 VA	1.0	„	987.00	1066.00
34	1000/5 A	15 VA	0.5	„	1081.00	1110.00
35	1200/5 A	15 VA	1.0	„	1023.00	1110.00
36	1200/5 A	15 VA	0.5	„	1096.00	1153.00
37	1500/5 A	15 VA	1.0	„	1124.00	1254.00
38	1500/5 A	15 VA	0.5	„	1196.00	1305.00
39	1600/5 A	15 VA	1.0	„	1153.00	1297.00
40	1600/5 A	15 VA	0.5	„	1225.00	1340.00
41	2000/5 A	15 VA	1.0	„	1427.00	1470.00
42	2000/5 A	15 VA	0.5	„	1484.00	1514.00

### 6.B. Protection CT (Tape wound)

Sl. No.	CT ratio	Burden	Accuracy class	Unit	Rate Rs.
1	100/5 A	5 VA	10P 5	Each	1167.00
2	100/5 A	10 VA	10P 5	„	1975.00
3	150/5 A	7.5 VA	10P 5	„	1196.00
4	150/5 A	7.5 VA	10P 10	„	2586.00
5	200/5 A	10 VA	10P 10	„	2334.00
6	200/5 A	10 VA	10P 5	„	1449.00
7	300/5 A	10 VA	10P 10	„	1376.00
8	300/5 A	10 VA	10P 5	„	2868.00
9	400/5 A	10 VA	10P 10	„	1802.00
10	400/5 A	10 VA	10P 5	„	1542.00
11	500/5 A	15 VA	10P 10	„	2752.00
12	500/5 A	15 VA	10P 5	„	2478.00
13	600/5 A	15 VA	10P 10	„	2334.00
14	600/5 A	15 VA	5P/10P 10	„	2644.00
15	800/5 A	15 VA	5P/10P 10	„	2450.00
16	1000/5 A	15 VA	5P/10P 10	„	2371.00
17	1200/5 A	15 VA	5P/10P 10	„	2500.00
18	1600/5 A	15 VA	5P/10P 10	„	2811.00
19	2000/5 A	15 VA	5P/10P 10	„	2890.00

## PART XVII

### 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	„	240.00
b	Blue colour	„	190.00
c	Red, Green, Black, Yellow, Orange Colours	„	80.00
2	Compact Integral indicator	„	52.00
3	Flush head Push Button with 1 NC Block	„	60.00
4	Flush head Push Button with 1 NO Block	„	60.00
5	Illuminated flush head Push Button with LED	„	106.00
6	Flush head Actuator – Red with legend ‘stop’ , (Contact – 1 NC)	„	219.00
7	Flush head Actuator – Green with legend ‘start’ , (Contact – 1 NO)	„	219.00
8	Illuminated Flush head Actuator – Green with legend ‘ON’, (Contact – 1 NO)	„	260.00
9	Illuminated Flush head Actuator – Red with legend ‘OFF’, (Contact – 1 NC)	„	251.00
10	Push button station enclosure 1/ 2/ 3 hole	„	125.00
11	Flush head Actuator – Red with legend ‘stop’ , (Contact – 1 NC) and Green with legend ‘start’ , (Contact – 1 NO)	„	318.00

#### 2. Legend Plates

Sl. No.	Description and size	Unit	Rate Rs.
<b>Square type aluminium anodised legend plates.</b>			
1	Danger 415 V, 200 x 150 mm	Each	82.00
2	Danger 415 V, 150 x 100 mm	„	44.00
3	Danger 415 V, 125 x 75 mm	„	27.00
4	Danger 415 V, 100 x 75 mm	„	22.00
5	Bus bar chamber, 100 x 40 mm	„	11.00
6	Cable alley, 100 x 40 mm	„	11.00
7	Earth, 40 x 20 mm with 8 mm hole	„	3.00
8	Auto - Manual, 40 x 25 mm with 15 m hole	„	4.00
<b>Square type Enameled danger notice plates</b>			
1	Danger 415 V, 250 x 200 mm	„	173.00
2	Danger 415 V, 200 x 150 mm	„	173.00
3	Danger 415 V, 150 x 100 mm	„	89.00
<b>Semi - oval type aluminium anodised legend plates</b>			
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.	„	4.00

**PART XVIII****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	„	17.50	50	40	85	„	40.00
3	33	40	40	„	27.00	50	40	100/105	„	44.50
4	38/40	50	50	„	55.00	50	40	125	„	48.50
5	38/40	50	60	„	66.00					
6	43/45	55	75	„	102.00					

**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	Each	27.00	
2	50	70	14	11.2	„	27.00	
3	50	70	14	13.7	„	27.00	
4	60	70	14	7.2	„	34.50	34.50
5	60	70	14	11.2	„	34.50	34.50
6	60	70	14	13.7	„	34.50	34.50
7	70	70	14	7.2	„	63.50	63.50
8	70	70	14	11.2	„	63.50	63.50
9	70	70	14	13.7	„	63.50	63.50

**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	Each	121.00	
2	300	50	10	11.2	„	121.00	
3	300	50	10	13.7	„	121.00	
4	350	52	10	7.2	„	154.00	154.00
5	350	52	10	11.2	„	154.00	154.00
6	350	52	10	13.7	„	154.00	154.00
7	420	60	12	7.2	„	231.00	231.00
8	420	60	12	11.2	„	231.00	231.00
9	420	60	12	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	Metre	5.80
2	20	10-12 mm dia, 12x3 mm, 9x6 mm	„	6.20
3	27	12x6 mm, 15x3 mm	„	7.00
4	33	15x9 mm, 15x6 mm, 20x3 mm, 18x6 mm, 20x 6 mm, 25x3 mm	„	7.60
5	41	25x6 mm, 25x10 mm, 25x12 mm	„	9.40
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	„	15.50
10	81	50x10 mm, 50x12 mm, 60x6 mm	„	17.50
11	93	60x10 mm, 60x12 mm, 75x6 mm	„	20.00
12	103	75x10 mm, 75x12 mm	„	22.50
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	„	41.50
18	210	175x6 mm, 175x10 mm, 175x12 mm	„	54.50
19	230	200x6 mm, 200x12 mm	„	59.00

#### 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		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	1.00	0.50	M	1.40
2	1.50	0.75	do	1.60
3	2.00	1.00	do	1.90
4	2.50	1.25	do	2.00
5	3.00	1.50	do	2.20
6	3.50	1.75	M	2.40
7	4.00	2.00	do	2.50
8	4.80	2.40	do	2.80
9	5.00	2.50	do	2.60
10	6.00	3.00	do	3.10

1	2	3	4	5
11	6.40	3.20	do	3.60
12	7.00	3.50	do	2.90
13	8.00	4.00	do	2.90
14	9.00	4.50	do	3.20
15	9.50	4.75	do	3.60
16	10.00	5.00	do	3.70
17	12.00	6.00	do	3.80
18	12.70	6.35	do	4.00
19	13.00	6.50	do	4.60
20	14.00	7.00	do	5.30
21	15.00	7.50	do	5.50
22	16.00	8.00	do	5.80
23	18.00	9.00	do	6.20
24	19.00	9.50	do	7.30
25	20.00	10.00	do	7.50
26	22.00	11.00	do	8.00
27	25.40	12.70	do	8.60

## PART XIX

### CAPACITORS

#### 1. Power Capacitors 3 phase delta connected.

Sl. No.	Rating (KVAR)	Unit	Rate Rs.		
			MPP-S 440 V	MPP-H 440V	MPP-H 520V
1	1	Each	200.00	--	--
2	2	„	401.00	--	--
3	3	„	601.00	--	--
4	4	„	801.00	--	--
5	5	„	1003.00	2478.00	3792.00
6	6	„	975.00	2372.00	--
7	7	„	1137.00	--	--
8	7.5	„	1320.00	2966.00	--
9	8	„	1300.00	3164.00	--
10	10	„	1760.00	3873.00	6500.00
11	12.5	„	2200.00	4842.00	6771.00
12	15	„	2437.00	5404.00	8126.00
13	20	„	3251.00	7204.00	10834.00
14	25	„	4063.00	9005.00	13542.00
15	30	„	--	10807.00	--
16	40	„	--	13001.00	--
17	50	„	--	18011.00	--

**Note: -** 1. MPP-S 440 V - Metalised Polypropylene Capacitor (Normal duty – suitable for direct connection to motors)

2. MPP-H 440 V - Double di-electric Polypropylene Capacitor (Heavy duty – suitable for APFC panel without Block Reactor Transformer)
3. MPP-H 520 V - Double di-electric Polypropylene Capacitor (Heavy duty – suitable for APFC panel with Block Reactor Transformer)

## 2. Intelligent Power Factor Controllers (IPFC)

Sl. No.	Description	Unit	Rate Rs.
1	6 stage 440 / 110 V 5A/1A	Each	9720.00
2	12 stage 400 / 110 V 5A/1A	„	12150.00
3	6 stage 440 / 110 V 5A/1A	„	14048.00
4	8 stage 440 / 110 V 5A/1A	„	16073.00
5	12 stage 440 / 110V 5A/1A	„	18731.00
6	14 stage 440 / 110 V 5A/1A	„	20123.00
7	Static switching Power factor controller up to 8 stage	„	19111.00
8	Static switching Power factor controller above 8 stage up to 14 stage	„	23161.00
9	PPCB for RS 485 communication module	„	7077.00

## 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 6 KVAR 460 V	E	9037.00
2	Block Reactor Transformers, 400 V suitable for 12.5 KVAR 460 V	E	10100.00
3	Block Reactor Transformers, 400 V suitable for 15 KVAR 460 V	E	10366.00
4	Block Reactor Transformers, 400 V suitable for 19 KVAR 460 V	E	10525.00
5	Block Reactor Transformers, 400 V suitable for 25 KVAR 460 V	E	17276.00
6	Block Reactor Transformers, 400 V suitable for 30 KVAR 460 V	E	19934.00
7	Block Reactor Transformers, 400 V suitable for 37 KVAR 460 V	E	21953.00
8	Block Reactor Transformers, 400 V suitable for 50 KVAR 460 V	E	24292.00
9	Block Reactor Transformers, 400 V suitable for 62 KVAR 460 V	E	27164.00
10	Block Reactor Transformers, 400 V suitable for 74 KVAR 460 V	E	28694.00
11	Block Reactor Transformers, 400 V suitable for 100 KVAR 460 V	E	30512.00
12	Block Reactor Transformers, 400 V suitable for 124 KVAR 460 V	E	38911.00
13	Block Reactor Transformers, 400 V suitable for 148 KVAR 460 V	E	42515.00

## PART XX

### MOTOR STARTERS

#### 1. Single Phase DOL starters

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.	
	HP	KW			Mechanical	Coil operated
1	0.125	0.09	1-1.6	Each	556.00	
2	0.17	0.13	1-1.6	„	556.00	
3	0.25	0.19	2.4-4	„	556.00	
4	0.33	0.25	2.4-4	„	556.00	
5	0.5	0.37	4-6.5	„	556.00	747.00
6	0.75	0.56	6-10	„	556.00	747.00
7	1	0.75	6-10	„	556.00	747.00
8	1.5	1.12	8.5-14	„	556.00	861.00
9	2	1.49	12-20	„	556.00	861.00
10	3	2.24	13-18	„	556.00	861.00

## 2. Three Phase DOL starters.

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.	
	HP	KW			Without SPP	With SPP
1	0.05	0.04	0.16-0.25	Each	1435.00	
2	0.125	0.09	0.24-0.4	„	1435.00	
3	0.17	0.13	0.4-0.63	„	1435.00	
4	0.25	0.18	0.63-1.0	„	1435.00	
5	0.33	0.25	0.63-1.0	„	1435.00	
6	0.5	0.37	1-1.6	„	1435.00	
7	0.75	0.55	1-1.6	„	1435.00	
8	1	0.75	2.4	„	1435.00	
9	1.5	1.10	1.6-2.5	„	1435.00	
10	2	1.50	2.5-4	„	1435.00	
11	3	2.20	4-6.5	„	1435.00	
12	5	3.70	5.5-8.5	„	1435.00	
13	5.5	4.00	7-10	„		
14	7.5	5.50	9-14	„	1414.00	
15	10	7.50	13-21	„	1698.00	1755.00
16	12	9.00	13-18	„		
17	12.5	9.33	16-24	„	2658.00	
18	15	11.00	20-32	„	2711.00	2685.00
19	17.5	13.00	23-32	„	4146.00	
20	20	15.00	20-32	„	4466.00	4784.00
21	25	18.50	30-40	„	6804.00	
22	30	22.50	28-42	„	6964.00	7123.00
23	35	25.00	38-50	„		
24	40	30.00	48-57	„	8505.00	
25	45	34.00	45-75	„		9994.00
26	50	37.00	57-66	„	9036.00	
27	60	45.00	66-80	„		
28	75	55.00	84-135	„	13768.00	
29	85	63.00	100-150	„		
30	100	75.00	124-198	„	18074.00	
31	125	90.00	124-198	„	20200.00	

## 3. Semi-automatic Star Delta Starter.

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.	
	HP	KW			With out SPP	With SPP
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	4	3.00	2.5-4	Each	4385.00	
2	5.5	4.00	4-6	„	4385.00	
3	7.5	5.50	5.5-8	„	4385.00	
4	12	9.00	7-10	„	4385.00	
5	15	11.00	11-18	„	4385.00	4849.00

1	2	3	4	5	6	7
6	20	15.00	13-18	„	5494.00	
7	25	19.00	13-21	„	5443.00	6007.00
8	30	22.50	20-32	„	7459.00	
9	35	26.00	20-32	„	9072.00	10168.00
10	40	30.00	30-40	„	12096.00	
11	50	37.00	30-40	„	14616.00	

#### 4. Fully automatic Star Delta Starter.

Sl. No.	Motor rating		Relay Range	Unit	Rate Rs.	
	HP	KW			With out SPP	With SPP
1	4	3.00	2.5-4	Each	5141.00	
2	5.5	4.00	4-6	„	5141.00	
3	7.5	5.50	5.5-8	„	5141.00	
4	10	7.50	6.5-10	„	4122.00	
5	12	9.00	7-10	„	5141.00	
6	12.5	9.30	9-14	„	4301.00	
7	15	11.00	11-18	„	4721.00	5736.00
8	20	15.00	19	„	5583.00	
9	25	19.00	13-21	„	5628.00	6570.00
10	30	22.50	20-32	„	7101.00	
11	35	26.00	20-32	„	9302.00	11784.00
12	40	29.80	30-42	„	12242.00	
13	50	37.00	28-42	„	15120.00	16300.00
14	60	45.00	34-51	„	17472.00	
15	70	51.00	48-57	„	26208.00	
16	75	55.00	45-75	„	19712.00	28053.00
17	80	59.00	57-66	„	28728.00	
18	90	67.50	50-75	„	23296.00	30566.00
19	100	75.00	66-80	„	34132.00	
20	125	90.00	66-110	„	35700.00	39525.00
21	150	110.00	80-125	„	38080.00	
22	175	130.00	90-150	„		42028.00
23	180	132.00	100-160	„	57456.00	
24	220	160.00	125-200	„	57456.00	
25	250	180.00	135-225	„		
26	270	200.00	160-250	„	67536.00	
27	300	220.00	200-315	„	72576.00	
28	400	300.00	180-300	„		

#### 5. 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	1527.00
2	1	0.75	12-20	„	1553.00
3	1.5	1.12	12-20	„	1659.00
4	2	1.50	12-20	„	1764.00

**6. 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	3738.00
2	10	7.50	13-21	„	4080.00

**7. 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	7613.00
2	20	15.00	28-42	„	9908.00
3	30	22.00	20-33		15644.00
4	30	22.00	30-50		15644.00
5	50	37.00	30-50		22213.00
6	50	37.00	45-75		22213.00

**8. Spares for starters**

Sl. No.	Description	Unit	Rate Rs.
1	Operating coil	Each	146.00
2	Auxiliary contact Block 1 NO + 1NC	„	199.00
3	Push button unit		93.00
4	Thermal timer with out combination coil		563.00
5	Combination coil		365.00
6	Electronic timer		445.00

**9. Electronic Soft Starters**

Sl.No	Motor rating		Unit	Rate Rs
	HP	KW		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	5	3.75	E	68449.00
2	10	7.5	E	68449.00
3	15	11	E	74150.00
4	20	15	E	75515.00
5	25	18.5	E	75579.00
6	30	22	E	76740.00
7	35	26	E	78093.00
8	40	30	E	78093.00
9	45	33	E	84241.00
10	50	37	E	85458.00
11	60	45	E	95187.00
12	75	56	E	101520.00
13	80	60	E	119621.00
14	100	75	E	121927.00
15	120	90	E	151925.00
16	125	93	E	158924.00
17	150	112	E	162979.00
18	175	130	E	172086.00
19	200	150	E	202111.00
20	215	160	E	205912.00

1	2	3	4	5
21	230	172	E	218779.00
22	250	187	E	225819.00
23	270	200	E	234054.00
24	300	225	E	248198.00

### PART XXI

#### EARTHING MATERIALS AND ACCESSORIES

Sl. No.	Description	Unit	Rate Rs.
1	Copper Strip all sizes	Kg.	491.00
2	Braided copper	„	578.00
3	Copper wire 0 to 14 SWG	„	491.00
4	GI strip all sizes	„	77.00
5	Aluminum strip	„	246.00
6	1200 x 1200 x 12.5 mm CI / GI earth plate	Each	4805.00
7	600 x 600 x 6.3mm CI / GI earth plate	„	1201.00
8	300x300x3mm copper plate	„	1447.00
9	300x300x6mm copper plate	„	2873.00
10	600x600x6mm copper plate	„	10630.00
11	600x600x3mm copper plate	„	5788.00
12	Charcoal	m <sup>3</sup>	2100.00
13	GI funnel with weld mesh at top	Each	60.00
14	Gully trap with covering box in CI (300x300x10mm)	„	315.00
15	Gully trap with covering box in CI (300x300x6mm)	„	210.00
16	Gully trap with covering box in CI (450x450x10mm)	„	735.00
17	Copper tubular earth socket for 2mm (14 SWG) conductor	„	6.30
18	Copper tubular earth socket for 2.65 mm (12 SWG) conductor	„	6.80
19	Copper tubular earth socket for 3.14 mm (10 SWG) conductor	„	7.90
20	Copper tubular earth socket for 4.00 mm (8 SWG) conductor	„	10.50
21	Copper tubular earth socket for 4.75 mm (6 SWG) conductor	„	17.00
22	Copper tubular earth socket for 6.00 mm (4 SWG) conductor	„	19.00
19	Copper tubular earth socket for 7.00 mm (2 SWG) conductor	„	25.00
20	Copper tubular earth socket for 8.00 mm (0 SWG) conductor	Each	25.00
21	25x3mm brass bolt with hexagonal/square head, nut and washer	„	5.20
22	25x6mm brass bolt with hexagonal/square head, nut and washer	„	7.90
23	12x3mm brass bolt with hexagonal/square head, nut and washers	„	2.60

### PART XXII

#### RUBBER SHEETS / FRP / SMC SHEETS / PHENOLIC LAMINATED SHEETS AND CRCA SHEETS

##### 1. FRP / SMC / Phenolic laminated / Rubber / 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	3	4	5	6	7
1	2 mm	Each	1834.00	1703.00	2096.00	
2	3 mm	„	2227.00	2358.00	2751.00	700.00

1	2	3	4	5	6	7
3	4 mm	„	2620.00	3144.00		1000.00
4	5 mm	„	3406.00	3996.00	4585.00	
5	6 mm	„	3668.00	4782.00	6026.00	1500.00
6	8 mm	„	4847.00	6419.00	7336.00	2000.00
7	10 mm	„	5895.00	7991.00	9170.00	2500.00
8	12 mm	„	7467.00	9563.00	11004.00	3000.00
9	16 mm	„	9563.00	12838.00	14672.00	
10	18 mm	„	10480.00	14410.00		
11	20 mm	„	11921.00	15982.00		
12	25 mm	„	14934.00	21746.00		

## 2. Synthetic PVC fire retardant insulating sheet

Sl.No	Thickness of sheet in mm	Voltage class KV	Unit	Rate
1	2.00 mm	3.30	m <sup>2</sup>	3800.00
2	2.50 mm	11	m <sup>2</sup>	4700.00
3	3.00 mm	33	m <sup>2</sup>	5600.00
4	3.50 mm	66	m <sup>2</sup>	5600.00

## 3. MS Chequered Plates / CRCA / Aluminium / Lead Sheets

Sl. No.	Size	Unit	Rate Rs.
1	MS Chequered plates	Kg	48.00
2	CRCA Sheets	„	45.00
3	Aluminium Sheets	„	231.00
4	Lead Sheets 4 / 5 / 6 mm	„	218.00

## PART XXIII

### MISCELLANEOUS ITEMS

#### 1. Winding Materials.

Sl. No.	Size	Unit	Rate Rs.
1	2	3	4
<b>Super enameled copper winding wire.</b>			
1	10 SWG to 19 SWG	Kg	504.00
2	20 SWG to 22 SWG	„	506.00
3	23 SWG to 25 SWG	„	510.00
4	26 SWG to 36 SWG	„	512.00
<b>Other items.</b>			
1	Nanax Paper, 5 mil	Kg	2340.00
2	Nanax Paper, 7 mil	Kg	1352.00
3	Nanax Paper, 10 mil	Kg	1248.00
4	Milnex Paper, 5 / 7 / 10 mil	„	208.00
5	Triflex paper 5 / 7 / 10 mil	„	192.00
6	Pressphan Paper	„	125.00
7	Doctor beck Varnish, air drying bottle	Litre	151.00

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
8	Sleeve, 1mm	m	1.60
9	Sleeve, 2mm	„	2.10
10	Sleeve, 3 mm	„	2.80
11	Sleeve, 4 mm	„	3.70
12	Sleeve, 5 mm	„	5.60
13	Sleeve, 6 mm	„	6.20
14	Sleeve, 7 mm	„	6.60
15	Sleeve, 8 mm	„	7.50
16	Sleeve, 9 mm	„	8.40
17	Sleeve, 10 mm	„	9.60
18	Cotton tape, 25 mm (40 m roll)	Roll	26.00
19	Cotton tape, 20 mm (40 m roll)	„	23.00
20	Cotton tape, 12 mm (40 m roll)	„	21.00
21	Fibre glass tape, 25 / 20/ 12 mm (40 m roll)	„	93.50
22	Fibre glass cloth, 5 / 7 / 10 mil	m	93.50
23	Cotton Waste	Kg.	83.00
24	Banyan Waste	Kg.	125.00

### 3. Spares for Air Conditioner

Sl. No.	Description	Unit	Rate Rs.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	CCL 2F2 - R 12 gas	Kg	795.00
2	CHCLT2 - K 22 gas	Kg	774.00
3	Tetra Fluro ethane (R 134 A)	Kg	784.00
4	OLP Compressor 1 HP	E	207.00
5	OLP Compressor 1.5 HP	E	217.00
6	Start relay 1 HP	E	244.00
7	Start relay 1.5 HP	E	260.00
8	Thermostat control switch	E	329.00
9	Selector switch	E	79.50
10	Knobs for A/C	E	16.00
11	Running Capacitor 36 mfd 440 V AC	E	413.00
12	Running Capacitor 40 mfd 440 V AC	E	419.00
13	Running Capacitor 45 mfd 440 V AC	E	435.00
14	Running Capacitor 50 mfd 440 V AC	E	451.00
15	Starting Capacitor 60 / 80 mfd 275 V AC	E	265.00
16	Starting Capacitor 80 / 100 mfd 275 V AC	E	302.00
17	Starting Capacitor 100 / 120 mfd 275 V AC	E	329.00
18	Fan Capacitor 2.5 mfd 230 V AC	E	37.00
19	Fan Capacitor 4 mfd 230 V AC	E	69.00
20	Fan Capacitor 5 mfd 230 V AC	E	90.00
21	Fan Capacitor 6.3 mfd 230 V AC	E	101.00
22	Compressor oil R 22	Litre	125.00
23	Compressor rubber bushes	E	10.50
24	Welding rods Cu to Cu	E	16.00

1	2	3	4
25	Flux for welding (10 Gm)	E	19.00
26	Copper strainer ( Double capil) 4.5" (114 mm)long	E	25.50
27	Copper strainer ( Double capil) 6" (150 mm)long	E	32.00
28	Copper tube 1/4" (6 mm) O.D 22 SWG	m	88.00
29	Copper tube 5/16" (8 mm) O.D 22 SWG	m	106.00
30	Copper tube 3/8" (10mm) O.D 22 SWG	m	159.00
31	Copper tube 1/2" (12 mm) O.D 22 SWG	m	194.00
32	Copper tube 5/8" (16 mm)O.D 22 SWG	m	229.00
33	Air Filters for A/C Coir	E	69.00
34	Air Filters for A/C Plastic	E	79.50
35	Air Filters for A/C Foam sheet	E	122.00
36	Split AC Valves 1/4" 2 way	E	207.00
37	Split AC Valves 1/4" 3 way	E	228.00
38	Split AC Valves 3/8" 3 way	E	249.00
39	Split AC Valves 1/2" 3 way	E	281.00
40	Split AC Valves 5/8" 3 way	E	313.00
41	Flare nut 1/4"	E	12.50
42	Flare nut 5/16"	E	16.00
43	Flare nut 3/8"	E	19.00
44	Flare nut 1/2"	E	25.50
45	Flare nut 5/8"	E	37.00

#### 4. Other items

Sl. No.	Description and size	Unit	Rate Rs.
1	2	3	4
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	31.50
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	42.50
3	L.T. Cable route marker, cast iron, spike and inscription L.T. Cable		
a	102mm Round	„	42.00
b	152mm Round	„	52.50
c	102 x 102mm Square	„	52.50
d	152x 152mm Square		63.00
4	Solvent cement or PVC adhesive	250 ml	44.50
5	Corrosion inhibiting compound	50 g	23.00
6	Fibre plug	10 Nos.	2.60
7	Phil plug	50 g	5.20
8	Non adhesive PVC insulation tape roll of 3 mtr.	Each	11.50
9	Adhesive PVC insulation tape		
a	19 mm x 10 m length	„	12.00
b	19 mm x 5 m length	„	6.80

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
10	Teak wood round block		
a	88 x 20 mm	„	6.30
b	88 x 25 mm	„	7.10
c	88 x 38 mm	„	12.50
11	Teak wood pegs		
a	50 x 25 x 19 mm	100 Nos	25.00
b	38 x 25 x 19 mm	„	21.00